

Ref.No. : PDVPMT /

Date :

Criterion VI

Governance, Leadership and

Management

6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

- 1. IQAC Meetings, Proceeding and Action Taken Reports: (Pages 03-118)
- 2. Vasan Avishkar (Pages 119-141)
- 3. Research Committee Proceeding (Pages 142-152)
- Research Innovative Committee and Institutional Promotion Scheme (Pages 153-174)
- 5. Research Output:
 - a. Number of Research Projects(Under DST, UGC, CSIR, Govt of Maharashtra, University and: Institutional Promotion Scheme) 24 (Pages 175-213)
 - b. A Patent and Number of Research Papers: 223 (Pages 215-)
 - c. Grants received from ICSSR:
- 6. Workshops on IPR and Research Methodology (Pages 465-538)
- 7. Green Practices: (Pages 539- 558)
 - a. Tree Plantation
 - b. Vermicamposting
 - c. Apiculture
 - d. Sericulture
 - e. Mulberry Garden
 - f. Butterfly Garden
 - g. Medicinal Plant Garden
 - h. No Vehicle Day
 - i. Workshop on Climate Change



INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date: 12 / 06/ 2020

MEETING NOTICE

All the members of Internal Quality Assurance Cell (IQAC) are here by informed that a meeting of IQAC is convened on 15/06/2020 at 11.00 am. All the respected members are requested to join the meeting to discuss the following agenda.

AGENDA OF THE MEETING

- 1. Review of minutes of the previous IQAC Meeting
- 2. Discussion on organization of online awareness programs on COVID 19 pandemic
- 3. Discussion on organization of online awareness programs on various day celebrations.
- Discussion on organization of Webinars on different themes.
- 5. Discussion on construction of Sericulture farming.
- 6. Discussion and Preparation of Academic Calendar for academic year 2020-21.
- To audit the gender status of the college.
- 8. Discussion and Planning for preparation of calendar for CIE system and implementation.
- 9. Review of feedback from all stakeholders- student, parent, alumni and employer.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|---------|----------------------------|------------------------------|------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | former |
| 2 | Dr. Alka P. Inamdr | Director, IQAC | Allea |
| 3 | Mr. P. V. Patil | Member | mout |
| 4 | Mr. J. A. Yadav | Member | Hale |
| 5 | Dr. J. S. Ghodake | Member | Am |
| 6 | Dr. S. A. Khabade | Member | Frankona |
| 7 | Dr. T. K. Badame | Member | MATCHACKIN |
| 8 | Mr. V. H. Patil | Management Representative | M |
| 9 | Mr. M. B. Kadam | Administrative Officer | mandan |
| 10 | Mr. A. P. Chavan | Local Society | - (Ruun |
| 11 | Miss. Arti Rajendra Dalvi | Student Representative | ARalavi |
| 12 | Adv. Krishna Patil | Member of Alumni | Hawing |
| 13 | Mr. Satish Mali | Industrialist | ann |





MINUTES OF IQAC MEETING

The meeting was started on a welcome note by IQAC Director, Dr. Alka Inamdr followed by her online presentation on agenda which included basic purposes, activities and functions of IQAC.

The Chairperson Dr. M. S. Hujare, then requested all the members for open house discussion on academic excellence.

1. Review of minutes of the previous IQAC Meeting

The previous IQAC meeting was held by Dr. Alka Inamdr, Director, IQAC and were approved by the Council.

INTERNAL QUALITY ASSURANCE CELL (IQAC)2020-21

2

 Discussion on organization of online awareness programs on COVID 19 pandemic.

Committee decided to prepare online awareness programs on COVID-19 pandemic spread throughout the world and to be communicated to all stakeholders and society.

 Discussion on organization of online awareness programs on various day celebrations.

Issue regarding to celebration of various days was discussed and then we came to a decision to celebrate the days by organizing online awareness programs by respective departments.

4. Discussion on organization of Webinars on different themes.

Due to lockdown situation committee discussed and decided to organize webinars on various themes for students and faculty members.

5. Discussion on starting of Sericulture farming.

Issue regarding starting of Sericulture farming was discussed and decided to start Sericulture farming in the college campus.

6. Discussion and Preparation of Academic Calendar for academic year 2020-21.

To keep students, faculty, and staff reminded of key dates throughout the academic year, it is necessary to prepare academic calendar at the beginning of year. Therefore committee decided to prepare Academic Calendar for academic year 2020-21 and to publish it on the College website.

7. To audit the gender status of the college.

To access and analyze the strength, policies, programs, and organization process of the institution with the view to identify where key strategic initiatives could be initiated and implemented to strengthen our commitment to enhance capacities for gender mainstreaming at all levels in the institution. The Committee decided to audit the gender status of the institution and the responsibility is given to the Women Empowerment Cell of the College.

8. Discussion and Planning for preparation of calendar for CIE system and implementation.

The education process in any discipline of learning ends with an examination. The Committee decided to prepare calendar for CIE and to implement it from beginning of academic year, by conducting various activities such as bridge courses, aptitude tests, class tests, seminars, Home Assignments, field visits, study tours etc.

 Review of feedback from all stakeholders-student, parent, alumni and employer.

Issues regarding feedback from all stakeholders were discussed and we concluded that the feedbacks should be taken online and analyzed by all the stakeholders of the institution.

Dr. Alka Inamdr, Director, IQAC, informed the date for the next meeting and it was unanimously decided to be held in the third week of September 2020. The meeting ended with a formal vote of thanks.

The meeting of IQAC was held at 11.30 a.m. on 15.06.2019 in IQAC meeting hall. The following members were present.

ATTENDANCE REPORT

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|------------|----------------------------|------------------------------|-----------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | grand |
| 2 | Dr. Alka P. Inamdr | Director, IQAC | Alles |
| 3 | Mr. P. V. Patil | Member | maul |
| 4 | Mr. J. A. Yadav | Member | (Hoid) |
| 5 | Dr. J. S. Ghodake | Member | (Atmi- |
| 6 | Dr. S. A. Khabade | Member | CHANNA . |
| 7 | Dr. T. K. Badame | Member | MANAGAN |
| 8 | Mr. V. H. Patil | Management Representative | hr |
| 9 | Mr. M. B. Kadam | Administrative Officer | Marcedary |
| 10 | Mr. A. P. Chavan | Local Society | > (Aller |
| 11 | Miss. Arti Rajendra Dalvi | Student Representative | AROJAVI |
| 12 | Adv. Krishna Patil | Member of Alumni | Hours - |
| 13 | Mr. Satish Mali | Industrialist | Amah |

Allea Imanuly Dr. Alka P. Inamdr IQAC Co-Ordinator.

PD VP Mahavidyalaya, Tasgaon



Prin. Dr. Milind S. Hujare Principal admabhushan Dr. Masantraodada Pati Mahavidyalaya. Tasgaon, (Sangii)



INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date:-15/ 09/ 2020

MEETING NOTICE

All the members of Internal Quality Assurance Cell (IQAC) are here by informed that a meeting of IQAC is convened on 21/09/2020 at 11.30 am All the respected members are requested to join the meeting in IQAC meeting hall to discuss the following agenda.

AGENDA OF THE MEETING

- 1. Review of minutes of the previous IQAC Meeting.
- 2. Discussion on organization of MOOC Course for students.
- 3. To audit the energy utilization of college.
- 4. Discussion on organization of Webinars on different themes.
- 5. To audit green incentive taken by college.
- 6. Organization of Orientation program for NSS Program Officer.
- 7. Discussion on Celebration of upcoming Various days
- 8. To Organize the Alumni meet.
- 9. Discussion on increasing percentage of students in student satisfaction survey.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|---------|----------------------------|------------------------------|--------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Haunts |
| 2 | Dr. Alka P. Inamdr | Director, IQAC | Alka |
| 3 | Mr. P. V. Patil | Member | mar.l |
| 4 | Mr. J. A. Yadav | Member | Heid |
| 5 | Dr. J. S. Ghodake | Member | ale. |
| 6 | Dr. S. A. Khabade | Member | Bunentas |
| 7 | Dr. T. K. Badame | Member | ALALAIA ALIA |
| 8 | Mr. V. H. Patil | Management Representative | W. |
| 9 | Mr. M. B. Kadam | Administrative Officer | MBhados |
| 10 | Mr. A. P. Chavan | Local Society | > (former - |
| 11 | Miss. Arti Rajendra Dalvi | Student Representative | NDOJONI |
| 12 | Adv. Krishna Patil | Member of Alumni | Hawing |
| 13 | Mr. Satish Mali | Industrialist | arban |

AlkaInamoly HAV IQAL Alka P. Inamdr dinator. Principal P.D.V.P. Mahavidyalaya, Padmabhushan Dr. Vasantraodada Pati Tasgaon. MINUTES OF IOAC MEETINC

The Chairperson Prin. Dr. Milind S. Hujare welcomed the members for the second meeting of IQAC. The following points were discussed in the meeting:

Hujare

1. Review of minutes of 1st IQAC Meeting

The minutes of the meeting held on 15/06/2020 are approved by the Council.

2. Discussion on organization of MOOC Course for students.

To provide an opportunity to study by such course to the students. Therefore, issue regarding organization of MOOC Course for students is discussed and decision has been taken to organize such course by respective departments.

3. To audit the energy utilization of college.

The issue regarding to audit the energy utilization of college is raised by committee members. The Energy Audit defines ways to reduce energy consumption per unit of product output or to lower operating costs. The recommendations of the study will become a basis for future schemes of better energy consumption and preservation

throughout the organization. After discussion it is decided that, Energy utilization audit of college will be done by external agency.

4. Discussion on organization of Webinars on different themes.

Due to lockdown situation committee discussed and decided to organize webinars on various themes for students and faculty members.

5. To audit green incentive taken by college.

The Green Audit of the College is becoming a paramount important these days for self assessment of the institution, which reflects the role of the institution in mitigating the present environmental problems.

Therefore, the committee suggesting to complete the green audit of College campus to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. After discussion it is decided that, this responsibility is given to the external agency.

6. Organization of Orientation program for NSS Program Officer

Provide knowledge on NSS program, activities, financial management, reporting, planning, and organizing NSS camps and special camps. Impart comprehensive knowledge on youth development activities, Life Skills, Team Building, Leadership, Developmental issues, Youth counseling, Disaster management, village adoption, and gender sensitization in order to build the capacity of NSS officers to develop their skills. The issue discussed and decision has been taken to organize such program of NSS.

7. Discussion on Celebration of upcoming Various days

In most graduate level exams, the awareness section is often the deciding one. In this section, one of the important topics is the list of important days that occur in a calendar year. The important days have to be committed to the memory. So the issue discussed and decision has been taken to celebrate these important international, national days of their importance to acknowledge the students.

8. To Organize the Alumni meet.

The organization of Alumni meet aims to foster a sense of community among alumni, while supporting a sense of connectedness back to the institution feeling. Alumni meet will help new professionals or visit with people they have met before, to establish or renew friendships and acquaintances. Therefore issue regarding Alumni meet organization is discussed and decision has been taken to organize Alumni meet in the month of January.

9. Discussion on increasing percentage of students in student satisfaction survey.

The objectives of the student satisfaction survey are to assess student satisfaction with respect to academic support, learning resources, organization and management, assessment and feedback, personal development of the students. Some committee members raised issue regarding less participation of students in student satisfaction survey. It has been decided that motivate the students to participate in student satisfaction survey to be conducted at the end of academic year. The responsibility is given to all Head of departments for counseling the students for participation in the survey.

Dr. Alka Inamdr, IQAC Director informed the date for the next meeting and it is unanimously decided in the first week of January 2021. The meeting ended with a formal vote of thanks.

The meeting of IQAC was held at 11.30 a.m. on 21/09/2020 in IQAC meeting hall. The following members were present.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|------------|----------------------------|------------------------------|------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Naume |
| 2 | Dr. Alka P. Inamdr | Director, IQAC | Alles |
| 3 | Mr. P. V. Patil | Member | m.h |
| 4 | Mr. J. A. Yadav | Member | Hat |
| 5 | Dr. J. S. Ghodake | Member | Elem |
| 6 | Dr. S. A. Khabade | Member | abuzala. |
| 7 | Dr. T. K. Badame | Member | MATALE ANY |
| 8 | Mr. V. H. Patil | Management Representative | W |
| 9 | Mr. M. B. Kadam | Administrative Officer | mandon |
| 10 | Mr. A. P. Chavan | Local Society | - allows |
| 11 | Miss. Arti Rajendra Dalvi | Student Representative | APalavi |
| 12 | Adv. Krishna Patil | Member of Alumni | Howy. |
| 13 | Mr. Satish Mali | Industrialist | anah |

ATTENDANCE REPORT

AlkaInema Dr. Alka P. Inamdr ilind S. Hujare Principal IQAC Co-Ordinator. PD V.P. Mahavidyalaya. mabhushan Dr. Vasantraodada Patil Tasgaon. Mahavidyalava, Taspaon, (Sanoli)



INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date:-02/01/2021

MEETING NOTICE

All the members of Internal Quality Assurance Cell (IQAC) here by informed that a meeting of IQAC is convened on 07/01/2021at 11.30 am All the respected members are requested to join the meeting in IQAC meeting hall to discuss the following agenda.

AGENDA OF THE MEETING

- 1. Review of minutes of the previous IQAC Meeting.
- 2. Discussion on organization of Student Development Course for students.
- 3. Discussion on organization of Webinars on different themes
- 4. To organize Health Checkup camp for teaching and non teaching faculty.
- 5. Organization of workshop on Entrepreneurship skill
- 6. Discussion on organization of soft skill development course.
- 7. To audit the Academic and Administrative status of college by internal committee.
- 8. To Organize a Workshop on Good Governance.
- Discussion on preparation and Submission of AQAR 2019-20

| Sr. No. | Name of the IQAC Member | Designation | Signatuure |
|---------|----------------------------|------------------------------|------------|
| 1 | Prin, Dr. Milind S. Hujare | Chairperson | Colone |
| 2 | Dr. Alka P. Inamdr | Director, IQAC | alles |
| 3 | Mr. P. V. Patil | Member | mount |
| 4 | Mr. J. A. Yadav | Member | Hard |
| 5 | Dr. J. S. Ghodake | Member | atte |
| 6 | Dr. S. A. Khabade | Member | Durana |
| 7 | Dr. T. K. Badame | Member | alderstan |
| 8 | Mr. V. H. Patil | Management Representative | 4 |
| 9 | Mr. M. B. Kadam | Administrative Officer | maday |
| 10 | Mr. A. P. Chavan | Local Society | Allune. |
| 11 | Miss. Arti Rajendra Dalvi | Student Representative | ADDIAVE |
| 12 | Adv. Krishna Patil | Member of Alumni | Bawin |
| 13 | Mr. Satish Mali | Industrialist | angh |

Alka Inamal Dr. Alka P. Inamdr Prin. Dr MAL nd S. Hujare Principal IQAC Co-Ordinator, PD.VP. Mahavidyalaya Padmabhushan Dr. Vasantraodada Pati Tasgaon. Mahavidvalaya, Tasgaon, (Sangk)

MINUTES OF IQAC MEETING

The Chairperson Prin. Dr. Milind S. Hujare welcomed the members for the third meeting of IQAC. The following points were discussed in the meeting:

1. Review of minutes of 2nd IQAC Meeting

The minutes of the meeting held on 21/09/2020 are approved by the Council.

2. Discussion on organization of Student Development Course for students.

This course covers various dimensions and importance of effective personality. It helps to understand personality traits and formation and vital contribution in the world of business. Also the course makes the student aware about the various dynamics of personality development. This issue discussed and decision has been taken to organize such course by respective departments.

3. Discussion on organization of Webinars on different themes.

Due to lockdown situation committee discussed and decided to organize webinars on various themes for students and faculty members.

4. To organize Health Checkup camp for teaching and non teaching faculty.

To bring awareness amongst the faculty of the college who have no access to basic healthcare services or knowledge about the diseases they are suffering from. So, medical camps provide free medical advice, medicine to the unfortunate people and refer for specialized treatment or surgery whenever it is required. Therefore it was decided that to organize free health check-up camp for teaching faculty, non-teaching staff and students.

5. Organization of workshop on Entrepreneurship skill

The objective of the program is to motivate youth representing different sections of the society including SC/ST/Women, differently-abled, and persons to consider self employment or entrepreneurship as one of the career options. The ultimate objective is to promote new enterprises, capacity building and inculcating entrepreneurial culture in the students. Therefore it was decided to organize such a workshop for students.

6. Discussion on organization of soft skill development course

This course aims to cause a basic awareness about the significance of soft skills in professional and interpersonal communications and facilitate an all round development of personality. Hard or technical skills help securing a basic position in one's life and career. This issue discussed and decision has been taken to organize such course.

To audit the Academic and Administrative status of college by internal committee.

The issue regarding Internal Academic and Administrative Audit is discussed and decision has been taken to appoint the committee for to conduct the Academic and Administrative Audit of the college.

8. To Organize a Workshop on Good Governance.

The Polity of India is the largest exercise in democracy in the world. This issue discussed and decision has been taken to organize such program.

9. Discussion on preparation and Submission of AQAR 2019-20

An issue of preparing and sending the AQAR of **2019-20** to NAAC Bangalore before the valid period has been raised in the meeting. The IQAC committee is suggesting the IQAC Coordinator and Principal of the College to prepare and send the AQAR of **2019-20** to NAAC Bangalore before valid period. Dr. Alka Inamdr, Director, IQAC informed the date for the next meeting and it is unanimously decided in the second week of April 2021. The meeting ended with a formal vote of thanks.

The meeting of IQAC was held at 11.30 a.m. on 07/01/2021 in IQAC meeting hall. The following members were present.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|------------|----------------------------|------------------------------|------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Rammun |
| 2 | Dr. Alka P. Inamdr | Director, IQAC | Alleg |
| 3 | Mr. P. V. Patil | Member | an.t |
| 4 | Mr. J. A. Yadav | Member | Hort |
| 5 | Dr. J. S. Ghodake | Member | atom |
| 6 | Dr. S. A. Khabade | Member | Bridenas |
| 7 | Dr. T. K. Badame | Member | CHALAMAGUE |
| 8 | Mr. V. H. Patil | Management Representative | W |
| 9 | Mr. M. B. Kadam | Administrative Officer | mande |
| 10 | Mr. A. P. Chavan | Local Society | > (Humm |
| 11 | Miss. Arti Rajendra Dalvi | Student Representative | ARatave |
| 12 | Adv. Krishna Patil | Member of Alumni | Hauss |
| 13 | Mr. Satish Mali | Industrialist | arrah |

ATTENDANCE REPORT

AlkaInumd

Dr. Alka P. Inamdr IQAC Co-Ordinator, PD VP Mahavidyalaya, Tasgaon.



Prin. Dr. Willind S. Hujare Principal Padmabhushan Dr. Vasantraodada Pati Mahavidyalaya, Tasgaon, (Sangii)



INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date:-06/04/2021

MEETING NOTICE

All the members of Internal Quality Assurance Cell (IQAC) are here by informed that a meeting of IQAC is convened on 10/04/2021at 11.30 am All the respected members are requested to join the meeting in IQAC meeting hall to discuss the following agenda.

AGENDA OF THE MEETING

- 1. Review of minutes of the previous IQAC Meeting.
- Discussion on organization of Placement Special Drive for PG Students.
- Discussion on organization of COVID 19 vaccination Awareness Program
- Discussion on organization of celebration of Biodiversity Conservation day and various upcoming days.
- 5. Discussion on establishment of Staff Academy.
- 6. Discussion on organization of teacher's training program.
- 7. Discussion on organization of Webinars for girl students.
- 8. To organize webinar on Women Violence.
- 9. Discussion on organization of Webinars on different themes
- 10. Organization of Webinar on COVID 19 Free Rural Communities.
- 11. Organization of workshop for higher student progression.
- 12. Organization of Course on Communication skill
- 13. To start the writing of draft SSR

| Sr. No. | Name of the IQAC Member | Designation | Signatuure |
|---------|----------------------------|------------------------------|------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | (1) annu |
| 2 | Dr. Alka P. Inamdr | Director, IQAC | Allea |
| 3 | Mr. P. V. Patil | Member | ater |
| 4 | Mr. J. A. Yadav | Member | (Hold) |
| 5 | Dr. J. S. Ghodake | Member | (Hanne) |
| 6 | Dr. S. A. Khabade | Member | almania o |
| 7 | Dr. T. K. Badame | Member | MANAK AKIN |
| 8 | Mr. V. H. Patil | Management Representative | W |
| 9 | Mr. M. B. Kadam | Administrative Officer | macados |
| 10 | Mr. A. P. Chavan | Local Society | + (William |
| 11 | Miss. Arti Rajendra Dalvi | Student Representative | Apalavi' |
| 12 | Adv. Krishna Patil | Member of Alumni | Stewing 4 |
| 13 | Mr. Satish Mali | Industrialist | ann |
| | | | |

AlkaInamd Dr. Alka P. Inamdr Prin, D ilind S. Hujare IQAC Co-Ordinator Principal PDVP. Mahavidyalaya admabhushan Dr. Vasantraodada Pah Tasgaon. Mahavidyalaya, Tasgaon, (Sangli) SANG MINUTES OF IQAC MEETING

The Chairperson Prin. Dr. Milind S. Hujare welcomed the members for the third meeting of IQAC. The following points were discussed in the meeting:

1. Review of minutes of 3rd IQAC Meeting

The minutes of the meeting held on 07/01/2021 are approved by the Council.

2. Discussion on organization of Placement Special Drive for PG Students

To create promising career opportunities, to provide right job for the right person in right place at the right time, to ensure our students will start the career and move forward in the right direction for better quality living, To provide career guidance through counseling and one to one interactions with Average and below average students, To educate our first year students regarding the interview process through co ordination in

placement drive This issue discussed and decision has been taken to organize such programme by respective departments.

3. Discussion on organization of COVID 19 vaccination Awareness Program

While the development of COVID-19 vaccines has been an extraordinary success, vaccinating most of the global population is an enormous challenge, one for which gaining and maintaining public trust in COVID-19 vaccines and vaccination will be as essential as the effectiveness of the vaccines themselves. Moreover, the experience with COVID-19 will likely shapes confidence in other vaccines making it even more important to build confidence at this time. This issue discussed and decision has been taken to organize such programme by NSS.

Discussion on organization of celebration of Biodiversity Conservation day and Various upcoming days.

To increase the awareness of biodiversity issues. Biodiversity is the living fabric of our planet. It underpins human well-being in the present and in the future, and its rapid decline threatens nature. Human activities are driving biodiversity loss at an unprecedented rate. Issue regarding to celebration of Biodiversity Conservation Day and various days was discussed and decided that to celebrate these days by organizing online awareness programmes or Quiz by respective departments.

5. Discussion on establishment of Staff Academy.

To inspire and motivate teachers for participation in group discussion, paper presentation and development of research aptitude, it is useful to get information on any untouched area like music and biopic history of renowned socialists, freedom fighters in Maharashtra and India. Every individual staff members gave presentation on their scheduled date. The Committee decided to establish the Staff academy.

6. Discussion on organization of teacher's training program.

The objective of teacher education is to develop a good command of the subject matter, to develop a skill to stimulate experience in the taught, under an artificially created Environment. This issue discussed and decision has been taken to organize such program.

7. Discussion on organization of Webinars for girl students.

Women Empowerment and Gender Equality are the most important requirements for the upliftment and progress of our nation. In the effort to make a strong kernel of gender sensitization, Such events are necessary for the upliftment of women and spread the real importance of gender equality in the society through College students. This issue discussed and decision has been taken to organize such webinars by Women Empowerment Cell.

8. To organize webinar on Women Violence.

Raising awareness of the different forms of violence against women and domestic violence is an important element in the prevention of violence against women, because heightened awareness is a first step in changing attitudes and behavior that perpetuate the various forms of violence against women. The purpose of this is to give more background to prevention through awareness-raising and to offer practical advice. This issue discussed and decision has been taken to organize such program.

9. Discussion on organization of Webinars on different themes.

Due to lockdown situation committee discussed and decided to organize webinars on various themes for students and faculty members.

10. Organization of Webinar on COVID 19 Free Rural Communities.

To inform the resources to help public health partners educate rural communities and promote COVID-19 vaccination. It provides messaging tips for communication that is clear, concise, and personalized to increase COVID-19 vaccine confidence in rural communities. This issue discussed and decision has been taken to organize such program by NSS.

11. Organization of workshop for higher student progression.

The workshops are regarded as the group of individuals, who are assembled together to achieve a common purpose. The instructors ensure that they are able to impart knowledge to the students in an appropriate manner and facilitate their learning. On the other hand, the students are able to understand the subjects and concepts better and upgrade their knowledge. Through attending workshops, the students are able to clarify their doubts and problems as well. The issue discussed and decision has been taken to organize such program.

12. Organization of Course on Communication skill.

The main goal of this course is to help you improve your spoken English skills to enable you to communicate more effectively in English for their future success. The issue discussed and decision has been taken to organize such program.

13. To start the writing of draft SSR

The self-study and writing the report should include information about objective and degree programs, general education, resources/materials, outcome assessment, prior report information, graduate degree programs, writing the report, first draft, organizing

the report, the writing process is necessary for the submission to NAAC. The issue is discussed and decision has been taken to draft the SSR as per format.

Dr. Alka Inamdr, Director, IQAC informed the date for the next meeting and it is unanimously decided in the first week of next academic year. The meeting ended with a formal vote of thanks.

The meeting of IQAC was held at 11.30 a.m. on 10/04/2021 in IQAC meeting hall. The following members were present.

ATTENDANCE REPORT

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|------------|----------------------------|------------------------------|--------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Name |
| 2 | Dr. Alka P. Inamdr | Director, IQAC | Alles |
| 3 | Mr. P. V. Patil | Member | morte |
| 4 | Mr. J. A. Yadav | Member | Aport |
| 5 | Dr. J. S. Ghodake | Member | ana |
| 6 | Dr. S. A. Khabade | Member | Comanias |
| 7 | Dr. T. K. Badame | Member | Matala acius |
| 8 | Mr. V. H. Patil | Management Representative | W |
| 9 | Mr. M. B. Kadam | Administrative Officer | Marcola |
| 10 | Mr. A. P. Chavan | Local Society | > (fillium |
| 11 | Miss. Arti Rajendra Dalvi | Student Representative | ARalavi |
| 12 | Adv. Krishna Patil | Member of Alumni | tarry- |
| 13 | Mr. Satish Mali | Industrialist | anar |

Allea Inamd Dr. Alka P. Inamdr IQAC Co-Ordinator, PD.V.P. Mahavidyalaya, Tasgaon.



Prin. Dr. Matind S. Hajare Principal Padmabhushan Dr. Vasantraodada Pati Mahavidyalaya, Tasgaon, (Sangli)



Ref.No. : PDVPMT/

Date :

Action Taken Report

2020-21

| Sr. | Plan of Action | Action Taken |
|-----|--|--|
| No. | | |
| | First Meeting o | n 15/06/2020 |
| 1 | Review of minutes of the previous IQAC | The previous IQAC meeting was read by Dr. |
| | Meeting | Alka Inamdr, Director, IQAC and are approved |
| | | by the Council. |
| 2 | Discussion on organization of online | Online awareness programs on Cure and |
| | awareness programmes 0n COVID 19 | Precaution of COVID 19 pandemic disease |
| | pandemic disease. | was organized on 11/07/ 2020 and Post |
| | | COVID 19 on 15/07/ 2020 and Online quiz on |
| | | COVID-19: Economic Package for India |
| 3 | Discussion on organization of online | 1. Celebrated Environment day on 05/06/2020 |
| | awareness programmes on various day | by online quiz and tree Plantation. |
| | celebrations. | 2. International tiger day29/07/2020 by |
| | | National Webinar. |
| | | 3. International Day for the Preservation of the |
| | | Ozone Layer 2020: Quiz awareness program |
| | | by Dept. of Geography |
| 4 | Discussion on organization of Webinars | 1. National webinar on Archeobotanical |
| | on different themes | studies by Dept. of Botany on 02/07/2020. |
| | | 2. National Webinar on Covid 19: Impact On |
| | | Service Sector In India' on 19/08/2020 by |
| | | Dept. of Economics |
| | | 3. National Webinar on Advanced Materials |
| | | for multifunctional Applications on |

| | | 04/09/2020 by Dept. of Physics |
|----|---|---|
| 5 | Discussion on construction of Sericulture | Sericulture Farm of Mulberry Plantation was |
| | farming. | done during June 2020. |
| | | |
| 6 | Discussion and Preparation of Academic | Academic Calendar was prepared and uploaded |
| | Calendar for academic year 2020-21. | on College website. |
| 7 | To audit the gender status of the college | Gender audit of the college was done by |
| | | Women Empowerment Cell and report is |
| | | submitted to Principal. |
| 8 | Discussion and Planning for preparation | CIE Calendar was prepared and implemented |
| | of calendar for CIE system and | successfully during academic year. |
| | implementation. | |
| 9 | Review of feedback from all stakeholders- | Feedback of students, teachers, Alumni was |
| | student, parent, alumni and employer | collected online, analyzed and action taken. |
| | Second Meeting | on 21/09/2020 |
| 10 | Review of minutes of the previous IQAC | The minutes of the meeting held on $15/06/2020$ |
| | Meeting. | are approved by the Council. |
| 11 | Discussion on organization of MOOC | MOOC Course on Electrochemistry was |
| | Course for students. | successfully completed by Dept. of Chemistry |
| 12 | To audit the energy utilization of college. | Energy utilization audit of college was done by |
| | | external agency and submitted to Principal. |
| 13 | Discussion on organization of Webinars | 1. National Webinar on Beauty of World |
| | on different themes. | Natural Heritage: Kas Plateau on |
| | | 07/11/2020 by Dept. of Botany |
| | | 2. State level Webinar on Amhi Savitrichya |
| | | Leki on 04/01/2021 by Women |
| | | Empowerment Cell. |
| 14 | To audit green incentive taken by college. | Green audit of the College campus was done by |
| | | external agency and submitted to Principal. |
| 15 | Organization of Orientation program for | Orientation program for NSS Program Officer |
| | NSS Programe Officer. | was successfully done on 18/12/2020 by NSS |
| 16 | Discussion on Celebration of upcoming | Successfully Celebrated |
| | Various days | Divyang day 03/12/2020 |
| | | International Human Right day 10/12/2020 |
| | | Consumer day on 05/03/2021 |
| 17 | To Organize of Alumni meets. | Alumni meet was organized on 27/12/2020 |
| 18 | Discussion on increasing percentage of | Student Satisfaction Survey link was |
| | students in student satisfaction survey. | communicated to the students and collected |
| | | online |
| | Third Meeting of | on 07/01/2021 |
| 19 | Review of minutes of the previous IQAC | The minutes of the meeting held on $21/09/2020$ |
| | Meeting. | are approved by the Council. |

| 20 | Discussion on organization of Student | SDP of Personality Development successfully |
|----------------------|---|--|
| | Development Course for students. | organized on 01/01/2021 to 16/01/2021 |
| 21 | Discussion on organization of Webinars | 1. National Webinar on |
| | on different themes | An impact of COVID -19 on Global |
| | | Tourism on 21/01/2021 |
| | | 1. National Webinar on Women Leadership |
| | | And Empowerment on 22/02/2021 |
| | | 2. State level Webinar on New Consumer |
| | | Protection Act 2019 & Cyber Act |
| | | Awareness on 05/03/2021 |
| 22 | To organize Health Checkup camp for | Free Health Checkup camp was organized on |
| | teaching and non teaching faculty. | 22/01/2021by NSS Unit. |
| 23 | Organization of workshop on | Workshop on Entrepreneurship skill was |
| | Entrepreneurship skill | conducted on 10/03/2021 |
| 24 | Discussion on organization of soft skill | Seven days Online Soft Skills in Chemistry |
| | development course. | Practical Course was successfully conducted by |
| | | Dept. of Chemistry on 22/0220/21 to |
| | | 01/03/2021 |
| 25 | To audit the Academic and Administrative | Academic and Administrative audit of College |
| | status of college by internal committee. | was done by Committee appointed and |
| | | submitted to Principal |
| 26 | To Organize a Workshop on Good | Workshop on Democracy, Elections And Good |
| | Governance. | Governance was organized on 17/03/2021 |
| 27 | Discussion on preparation and Submission | AQAR 2019-20 was prepared and successfully |
| | of AQAR 2019-20 | submitted to NAAC on 27/02/2021 |
| | Fourth Meeting | on 15/04/2021 |
| 28 | Review of minutes of the previous IOAC | The minutes of the meeting held on $07/01/2021$ |
| | | The minutes of the meeting held on 07/01/2021 |
| | Meeting. | are approved by the Council. |
| 29 | Meeting. Discussion on organization of Placement | are approved by the Council. Placement Special Drive for PG Students on |
| 29 | Meeting. Discussion on organization of Placement Special Drive for PG Students. | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 |
| 29 30 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme |
| 29 30 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. |
| 29 30 31 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program Discussion on organization of celebration | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. 1. International Day for Biological Diversity 22/05/2021 |
| 29 30 31 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program Discussion on organization of celebration of Biodiversity Conservation day and | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. 1. International Day for Biological Diversity 22/05/2021 2. Lot II. A Day of the Day 20/04/2021 |
| 29 30 31 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program Discussion on organization of celebration of Biodiversity Conservation day and various upcoming days. | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. 1. International Day for Biological Diversity 22/05/2021 2. Intellectual Property Day 29/04/2021 |
| 29 30 31 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program Discussion on organization of celebration of Biodiversity Conservation day and various upcoming days. | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. 1. International Day for Biological Diversity 22/05/2021 2. Intellectual Property Day 29/04/2021 3. Zero Shadow Day 15/05/2021 4. Environment Day 05/06/2021 |
| 29 30 31 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program Discussion on organization of celebration of Biodiversity Conservation day and various upcoming days. | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. 1. International Day for Biological Diversity 22/05/2021 2. Intellectual Property Day 29/04/2021 3. Zero Shadow Day 15/05/2021 4. Environment Day 05/06/2021 5. National statistics Day 20/06/2021 |
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| 29 30 31 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program Discussion on organization of celebration of Biodiversity Conservation day and various upcoming days. | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. 1. International Day for Biological Diversity 22/05/2021 2. Intellectual Property Day 29/04/2021 3. Zero Shadow Day 15/05/2021 4. Environment Day 05/06/2021 5. National statistics Day 29/06/2021 6. Plastic Bag Free Day 03/07/2021 7. World Population Day 11/07/2021 |
| 29 30 31 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program Discussion on organization of celebration of Biodiversity Conservation day and various upcoming days. | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. 1. International Day for Biological Diversity 22/05/2021 2. Intellectual Property Day 29/04/2021 3. Zero Shadow Day 15/05/2021 4. Environment Day 05/06/2021 5. National statistics Day 29/06/2021 6. Plastic Bag Free Day 03/07/2021 7. World Population Day 11/07/2021 |
| 29 30 31 32 | Meeting. Discussion on organization of Placement Special Drive for PG Students. Discussion on organization of COVID 19 vaccination Awareness Program Discussion on organization of celebration of Biodiversity Conservation day and various upcoming days. | are approved by the Council. Placement Special Drive for PG Students on 15/04/2021 COVID 19 vaccination Awareness Programme was conducted on 11/04/2021 to 14/04/2021. 1. International Day for Biological Diversity 22/05/2021 2. Intellectual Property Day 29/04/2021 3. Zero Shadow Day 15/05/2021 4. Environment Day 05/06/2021 5. National statistics Day 29/06/2021 6. Plastic Bag Free Day 03/07/2021 7. World Population Day 11/07/2021 Staff Academy was established and Conducted Programs successfully. |

| 33 | Discussion on organization of teacher's | Teacher's training program on ITR was | | |
|----|---|--|--|--|
| | training programme. | organized on 25/05/2021 | | |
| 34 | Discussion on organization of Webinars | 1. Webinar on Expert talk and Demonstration | | |
| | for girl students. | on Stress Management on 21/06/2021 | | |
| | | 2. Webinar on Indian Women Who Glorified | | |
| | | History on 22/06/2021 | | |
| | | 3. Webinar on Courage Building on | | |
| | | 23/06/2021 | | |
| | | 4. Webinar on Gemology and Indian Attire on | | |
| | | 24/06/2021 | | |
| 35 | To organize webinar on Women Violence. | Webinar on Domestic Violence and Sexual | | |
| | | harassment at workplace was organized on | | |
| | | 17/07/2021. | | |
| 36 | Discussion on organization of Webinars | 1. State level Webinar on Ground Water | | |
| | on different themes | Awareness on 09/07/2021 | | |
| | | 2. National Webinar on 'Role of Human | | |
| | | Resource in Development on 10/07/2021 | | |
| 37 | Organization of Webinar on COVID 19 | Webinar on Role of Volunteers in CORONA | | |
| | Free Rural Communities. | Free Rural Community was organized on | | |
| | | 19/07/2021 by NSS | | |
| 38 | Organization of workshop for higher | Organized a Workshop on M. Sc. Entrance | | |
| | student progression. | Guidance for B. Sc. III students by Department | | |
| | | of Chemistry | | |
| 39 | Organization of Course on | Two month Online Course on Communication | | |
| | Communication skill | Skill was successfully organized from | | |
| | | 05/06/2021 to 05/08/2021 | | |
| 40 | To start the writing of draft SSR | To draft the SSR is on progress | | |

Alka Ineund IQAC Co-Ordinator, PD VP Mahavidyalaya, Tasgaon.



MUMBBOR Prin. Dr. Milind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).



Ref.No. : PDVPMT/

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date:-02 / 06/ 2019

Date :

MEETING NOTICE

All the members of Internal Quality Assurance Cell (IQAC) here by informed that a meeting of IQAC is convened on 05/06/2019 at 11:30 in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

AGENDA OF THE MEETING

- 1. Review of minutes of previous IQAC Meeting
- 2. To organize felicitation function for Mauritius students.
- 3. Discussion on preparation and Submission of AQAR 2018-19.
- 4. To audit the Academic and Administrative status of college by internal committee.
- Discussion and Preparation of Academic Calendar for academic year 2019-20.
- 6. Discussion and Planning for preparation of calendar for CIE system and implementation.
- 7. To increase number of field projects.
- 8. To Strengthen MIS system
- 9. Discussion on up gradation of Website.
- 10. Discussion on incentive funding for research project.
- 11. Discussion on to increase collaboration/linkages with other institution.
- 12. Discussion on Financial support to the faculty to participate in seminar and conferences.
- 13. Discussion on planning for Rain water harvesting.
- 14. Discussion on to increase the number of certificate courses.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|---------|----------------------------|---------------------------|------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Alexande |
| 2 | Prof. Dr. Suresh S. Patil | IQAC, Director | Ralip |
| 3 | Dr. V. Y. Pawar | Member | plus - |
| 4 | Mr. K. S. Patil | Member | act |
| 5 | Dr. J. S. Ghodake | Member | (Har) |
| 6 | Dr. A. P. Inamdar | Member | milliond |
| 7 | Dr. S. A. Khabade | Member | -Other the |
| 8 | Dr. B. T. Kanase | Member | Bars |
| 9 | Dr. T. K. Badame | Member | adianan |
| 10 | Mr. V. S. Patil | Management Representative | mala |
| 11 | Mr. M. B. Kadam | Administrative Officer | mulon |
| 12 | Mr. A. P. Chavan | Local Society | (Juduese |
| 13 | Miss. Sanyuja Suresh Patil | Student Representative | Salt |
| 14 | Adv. Krishna Patil | Member of Alumni | full. |
| 15 | Mr. Satish Mali | Industrialist | appin |

Dr. Suresh S. Patil IQAC, Director

formanning Prin. Dr. Milind S. Hujare Principal

Padmabhushan Dr. Vasantraodada Patil

MINUTES OF IQAC MEETING

The meeting started on a welcome note by IQAC Director, Prof S. S. Patil followed by his Presentation on objectives which include basic purposes, activities, and function of IQAC.

The Chairperson Dr. M. S. Hujare requested all the members for open house discussion on academic excellence.

1. Review of minutes of previous IQAC Meeting

The minutes of the previous meeting are approved by the Council.

2. To organize felicitation function for mauritius students.

The students of the college are continuously excelled in various university examinations and other extension activities in the every year. Therefore, the IQAC

INTERNAL QUALITY ASSURANCE (IQAC)2019-20

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members have suggesting to organize felicitation function for merit holder students of the last academic year 2018-19.

3. Discussion on preparation and Submission of AQAR 2018-19.

An issue of preparing and sending the AQAR of 2018-19 to NACC Bangalore before' the valid period has been raised in the meeting. The IQAC committee is suggesting the IQAC Coordinator and Principal of the College to prepare and send the AQAR of 2018-19 to NACC Bangalore before valid period.

4. To audit the Academic and Administrative status of college by internal committee.

The issue regarding Internal Academic and Administrative Audit is discussed and decision has been taken to appoint the committee for to conduct the Academic and Administrative Audit of the college.

5. Discussion and Preparation of Academic Calendar for academic year 2019-20.

To keep students, faculty, and staff reminded of key dates throughout the academic year it is necessary to prepare academic calendar at the beginning of year. Therefore committee decided to prepare Academic Calendar for academic year 2019-20 and to be publish on College website.

6. Discussion and planning for preparation of calendar for CIE and implementation.

One of the major components of the education system is evaluate students through examination. The education process in any discipline of learning ends with examinations. Committee decided to prepare calendar for CIE and to be implemented from beginning of academic year through conducting various activities such as bridge course and aptitude test, class tests, seminars, field visits, study tours etc.

7. To increase number of field projects

The issue regarding field projects to be conducted during the year is discussed and it is decided that each department should conduct field projects on various themes and submit their dissertations at the end of year.

8. To Strengthen MIS system

MIS is a system that manages the entire data/information of an organization which helps to covers the planning, control, and administration of the operations of a concern. It helps the management in planning, controlling and operations. The central objective of MIS is to provide information to every resource of a college so that they can take an instant decision without any delay. Therefore committee discussed and decided to strengthen MIS system in college.

9. Discussion on up gradation of Website.

Issue regarding to up gradation of College website is discussed and all committee members were agree to upgrade the College website time to time throughout the year.

10. Discussion on incentive funding for research project.

The prime objectives for incentive research projects are to create a positive research environment and ensure excellence in research with an enhanced focus on outcome based research. It has been decided after discussion to promote research activities by financial supports to innovative projects to be submitted by faculty and students.

11. Discussion on to increase collaboration/linkages with other institution.

The linkages promotes collaboration and partnership with other institutions of higher learning, corporate bodies and other relevant organizations. Therefore committee decided to encourage faculty and departments to sign collaborative linkages and conduct various activates for students and faculty.

12. Discussion on Financial support to the faculty to participate in seminar and conferences.

The issue regarding to financial support to the faculty to participate in seminar and conferences organized by various institutions was discussed. The decision has been taken to support all faculty of college those who will participate and present their research work in seminar and conferences organized by other institutions.

13. Discussion on planning for Rain water harvesting.

Rain water harvesting (RWH) the collection and storage of rain, rather than allowing it to run off. Committee discussed on rain water harvesting system and decision has been taken to setup rain water harvesting system to all building in the college campus and water collected from a roof-like surface and redirected to a tank, bore wells as reservoir with percolation.

14. Discussion on to increase the number of certificate courses.

Issue regarding to conduct certificate courses is discussed and decision has been taken to conduct at least on certificate course by each department during in the current academic year.

Prof. S. S. Patil, IQAC Director informed the date for the next meeting and it is unanimously decided in the fourth week of August 2019. The meeting ended with a formal vote of thanks. The meeting of IQAC was held at 11.30 a.m. on 05.06.2019 in Principal Cabin. The following members were present.

ATTENDANCE REPORT

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|------------|----------------------------|------------------------------|-----------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Alemanne |
| 2 | Prof. Dr. Suresh S. Patil | Director, IQAC | & olil |
| 3 | Dr. V. Y. Pawar | Member | Calud |
| 4 | Mr. K. S. Patil | Member | Brah 1 |
| 5 | Dr. J. S. Ghodake | Member | (Han) |
| 6 | Dr. A. P. Inamdar | Member | as Irange |
| 7 | Dr. S. A. Khabade | Member | HIKA CH |
| 8 | Dr. B. T. Kanase | Member | Ball |
| 9 | Dr. T. K. Badame | Member | SEMISIAN |
| 10 | Mr. V. S Patil | Management Representative | - Ab - |
| 11 | Mr. M. B. Kadam | Administrative | monada |
| 12 | Mr. A. P. Chavan | Local Society | Que |
| 13 | Miss. Sanyuja Suresh Patil | Student Representative | Satil |
| 14 | Adv. Krishna Patil | Member of Alumni | Houry . |
| 15 | Mr. Satish Mali | Industrialist | Attah |

Dr. Suresh S. Patil Director, IQAC

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Prin. Dr. Milind S. Hujare

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).





INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date: 21 / 08/ 2019

MEETING NOTICE

All the members of Internal Quality Assurance Cell (IQAC) here by informed that a meeting of IQAC is convened on 24/08/2019 at 11:30 in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

AGENDA OF MEETING

- 1. Review of minutes of 1st IQAC Meeting
- 2. Organization of workshops on various themes.
- 3. To audit the energy utilization of college.
- 4. To audit green incentive taken by college.
- 5. To audit the gender status of the college.
- Discussion and Organization on various community activities.
- 7. To organize Vasantavishkar Research Competition.
- 8. To construct the Botanical Garden.
- Discussion on to implementation No vehicle day, plastic free campus, solid, liquid and E-waste management.
- 10. Discussion on preparation and publication of Green Book.
- 11. To construct Smart and Digital Classrooms.
- 12. Organization of Training program on E content development.
- 13. Organization of NAAC Expert Faculty exchange program.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|---------|----------------------------|---------------------------|-------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Naumana |
| 2 | Prof. Dr. Suresh S. Patil | IQAC, Director | Ba. D. D |
| 3 | Dr. V. Y. Pawar | Member | John Course |
| 4 | Mr. K. S. Patil | Member | Det 1 |
| 5 | Dr. J. S. Ghodake | Member | at i |
| 6 | Dr. A. P. Inamdar | Member | mi I. J |
| 7 | Dr. S. A. Khabade | Member | -Athalate |
| 8 | Dr. B. T. Kanase | Member | RAL |
| 9 | Dr. T. K. Badame | Member | Tomalagell |
| 10 | Mr. V. S Patil | Management Representative | Malloradia |
| 11 | Mr. M. B. Kadam | Administrative Officer | pan |
| 12 | Mr. A. P. Chavan | Local Society | Thursday |
| 13 | Miss. Sanyuja Suresh Patil | Student Representative | Gatil |
| 14 | Adv. Krishna Patil | Member of Alumni | -tailt. |
| 15 | Mr. Satish Mali | Industrialist | Apop |

Dr. Suresh S. Patil IQAC, Director

Hammon

Prin. Dr. Milind S. Hujare Rincipal Padmabhushan Dr. Vasantraodada Patil

Padmabnushan Dr. Vasantraodada Pati Mahavidyalaya, Tasgaon (Sangli),

MINUTES OF IQAC MEETING

The Chairperson Prin. Dr. Milind S. Hujare welcomed the members for the second meeting of IQAC. The following points were discussed in the meeting:

1. Review of minutes of 1stIQAC Meeting

The minutes of the meetingheld on 05/06/2019 areapproved by the Council.

2. Organization of workshops on various themes.

Workshops are venues for teaching, instructing or facilitating group interaction between a relatively limited number of participation. They are traditionally interactive events on specifying areas that encourage participant involvement. There is fruitful discussion on organization of workshops and decided

that at least one workshop should be organized by each department on various themes during academic year.

3. To audit the energy utilization of college.

The issue regarding to audit the energy utilization of college is raised by committee members. The Energy Audit defines ways to reduce energy consumption per unit of product output or to lower operating costs. The recommendations of the study will become a basis for future schemes of better energy consumption and preservation throughout the organization. After discussion it is decided that, Energy utilization audit of college will be done by external agency.

4. To audit green incentive taken by college.

The Green Audit of an College is becoming a paramount important these days for self assessment of the institution, which reflects the role of the institution in mitigating the present environmental problems. Therefore, the committee suggesting to complete the green audit of College campus to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The responsibility is given to department of Botany.

5. To audit the gender status of the college.

To assess and analyze the strength, policies, programmes, and organization process of College with the view to identify where key strategic initiatives could be initiated and implemented to strengthen commitment to enhance capacities for gender mainstreaming at all levels in the College. Committee decided to audit gender status of the college and the responsibility is given to Women Empowerment Cell of the College.

6. Discussion and organization on various community activities.

Community service is unpaid work performed by a person or group of people for the benefit and betterment of their community without any form of compensation. Therefore IQAC committee suggesting to conduct at least one community activity by each department within the academic year.

7. To organize Vasantavishkar Research Competition.

Creating research atmosphere among the students is a key issue in higher educational institutes. An issue of organizing research competition has been raised by some committee members. It has been decided to organize research oriented 'Vasantavishkar' competition. A decision has also been taken to send more and more quality posters to the district level 'Avishkar' Research competition to be organized by Shivaji University, Kolhapur.

8. To construct the Botanical Garden.

 Botanical gardens aim to promote the awareness, study, and conservation of plant species diversity. The old Botanocal garden of the College was demolished during construction of new building. Therefore committee decided to construct new Botanical Garden in the campus and responsibility is given to department of Botany.

9. Discussion on to implementation of No vehicle day, Plastic free campus.

The 'No Vehicle Day' initiative aimed to helping reduce pollution caused due to the smoke emanating from vehicles and cutting down traffic congestion on the roads. It also aims to aware all stakeholders of college about environmental pollution. Therefore, committee decided to organize 'No Vehicle Day' on fourth Saturday of every month.

Plastic Free campus is a program that aims to measurably reduce plastic pollution on college campuses with a special focus on the reduction and ultimately the elimination of plastic bottles, plastic straws and utensils, and plastic food packaging. Participating college have identified plastic pollution as a key concern on their campuses, and are taking action to confront the problem. Therefore, it is decided to aware all the stakeholders of college about no use of plastic in college campus by counseling, displaying hoardings in campus etc.

10. Discussion on preparation and publication of Green Data Book.

Green data book is a book with list of all plants growing in college campus. As college have number of plants in the campus, committee discussed on the issue regarding publication of Green data Book of College campus. The responsibility of preparation of Green Data Book was given to Department of Botany.

11. To construct Smart and Digital Classrooms.

To embed digital learning objectives within future education policy and curriculum reform initiatives, to adapt the ICT competency framework for Teachers, to aid the integration of ICT into teaching, learning and assessment in college, and to provide opportunities for students to pursue in-depth ICT study of students, construction of Digital Classroom in the College is very essential. All committee members suggested to construct at least one Digital Classroom for each faculty.

12. Organization of Training program on E-content development.

Information technology and the Internet are major drivers of research, innovation, growth and social change. The growth in Internet has brought changes in all walks of life including the education. E-content requires huge amounts of creativity both at 'information' level as well as the 'technology' level. The issue regarding e-content development is discussed and suggested to organize one/two workshop for all faculty members.

13. Organization of NAAC Expert-Faculty exchange program.

To aware faculty about new accreditation process, committee decided to organize NAAC Expert-Faculty exchange program in the first term of academic year.

The meeting of IQAC was held at 11.30 a.m. on 24.08.2019 in Principal Cabin. The following members were present.

ATTENDANCE REPORT

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|------------|----------------------------|------------------------------|-------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Commonle |
| 2 | Prof. Dr. Suresh S. Patil | IQAC, Director | Lat! |
| 3 | Dr. V. Y. Pawar | Member | Colores . |
| 4 | Mr. K. S. Patil | Member | Dat |
| 5 | Dr. J. S. Ghodake | Member | Atra 1 |
| 6 | Dr. A. P. Inamdar | Member | Morandiaria |
| 7. | Dr. S. A. Khabade | Member | Athatity |
| 8 | Dr. B. T. Kanase | Member | Bar |
| 9 | Dr. T. K. Badame | Member | mananu |
| 10 | Mr. V. S Patil | Management Representative | pali |
| 11 | Mr. M. B. Kadam | Administrative Officer | mandons |
| 12 | Mr. A. P. Chavan | Local Society | Aller |
| 13 | Miss. Sanyuja Suresh Patil | Student Representative | Satil |
| 14 | Adv. Krishna Patil | Member of Alumni | - Ab- |
| 15 | Mr. Satish Mali | Industrialist | - Ah- |

Dr. Suresh S. Patil IQAC, Director



Prin. Dr. Milind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil

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Mahavidyalaya, Tasgaon (Sangli),



INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date: 05 / 12/ 2019

MEETING NOTICE

All the members of Internal Quality Assurance Cell (IQAC) here by informed that a meeting of IQAC is convened on 10/12/2019 at 11:30 in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

AGENDA OF MEETING

- 1. Review of minutes of 2nd IQAC Meeting
- 2. Discussion on celebration of Vivekananda saptah.
- To organize of Alumni meets.
- 4. To organize of Marathon competition.
- 5. To organize Annual sports competition.
- 6. To organize the Cultural Activity Competition.
- 7. To organize Competitive Exam Carnival.
- 8. To organize Job Fair.
- 9. To organize Sahitya Sammelan.
- 10. Workshop on climate change.
- 11. To organize Health Checkup camp for teaching and non teaching faculty.
- 12. Discussion on organization of Study /Industrial Tours.
- 13. Organization of workshop on IPRs.
- 14. Organization of Parent -Teacher meet.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|---------|----------------------------|---------------------------|-------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | (Il annul) |
| 2 | Prof. Dr. Suresh S. Patil | IQAC, Director | al: l |
| 3 | Dr. V. Y. Pawar | Member | (Millio - |
| 4 | Mr. K. S. Patil | Member | Wat |
| 5 | Dr. J. S. Ghodake | Member | (Im |
| 6 | Dr. A. P. Inamdar | Member | Oll I words |
| 7 | Dr. S. A. Khabade | Member | -Othalate |
| 8 | Dr. B. T. Kanase | Member | (BAB - |
| 9 | Dr. T. K. Badame | Member | martid Only |
| 10 | Mr. V. S Patil | Management Representative | Vnal |
| 11 | Mr. M. B. Kadam | Administrative Officer | mardin |
| 12 | Mr. A. P. Chavan | Local Society | (House |
| 13 | Miss. Sanyuja Suresh Patil | Student Representative | Satt |
| 14 | ADV. Krishna Patil | Member of Alumni | The well |
| 15 | Mr. Satish Mali | Industrialist | asah |

Dr. Suresh S. Pati

IQAC, Director

Howmwer Prin. Dr. Milind S. Hujare

Principal I Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).

MINUTES OF IQAC MEETING

1. Review of minutes of 2nd IQAC Meeting

The minutes of the meetingheld on 24/08/2019 areapproved by the Council.

2. Discussion on celebration of Vivekananda Saptah.

• Every year College celebrate Vivekananda saptah during 12-19 January by organizing various activities. It is decided that in this year seven days different programme such as marathon competition, Cultural events competition, Chemistry Carnival, Job fare etc. will be organized to provide different platforms to students.

3. To organize of Alumni meets.

The organization of Alumni meet aims to foster a sense of community among alumni, while supporting a sense of connectedness back to the institution feeling. Alumni meet will help new professionals or visit with people they have met before, to establish or renew friendships and acquaintances. Therefore issue regarding Alumni meet organization is discussed and decision has been taken to organize Alumni meet in the month of January.

4. To organize of Marathon competition.

Marathon encourages, inspire and motivate students and faculty to improve their mental and physical health through running and exercise. It improves the public awareness of diabetes and depression, with particular emphasis on exercise and fitness as a component of managing these diseases. Therefore committee decided to organize marathon competition limited for college students and faculty members.

5. To organize Annual sports competition.

To provide an environment for physical development, to showcase their talent in sports field of the students and to promote sportsmanship among students, IQAC committee discussed issue regarding organization of Annual sports competition. It is decided that both outdoor and indoor sports competitions may organized in the last month of January. The responsibility of organization of sports competition was given to Gymkhana Committee.

6. To organize the Cultural Activity Competition.

Cultural Activity Competition bring out the various talents of the students and provide a platform for budding artists and musicians. It inculcate team spirit and to account for overall personality development of students. The issue regarding organization of Cultural Activity Competition is raised by committee members and discussed. It has been decided to organize competition of various Cultural events during celebration of Vivekanand Sapta.

7. To organize Competitive Exam Carnival.

Assisting students to attain their educational goals, are the institutes offering competitive exam carvinal. These establishments have been in the educational sectors for a fair span of time. Each of the establishments is known to offer a certain set of coaching classes that are specific to different types of entrance exams in various sectors. Therefore, issue regarding organization of competitive exam Carnival has been discussed and decision has been taken to organize this carnival during celebration of Vivekanand Saptah.
8. To organize Job Fair.

Getting a job is not as easy. It requires more hard work and patience to find the right entry. Therefore it is decided by IQAC committee to organize Job Fair in collaboration with any government agency and the responsibility of organization is given to College Placement Cell.

9. To organize Sahitya Sammelan.

Sahitya Sammelan helps to cultivate, promote and develop writers culture by organizing discussion, conducting research on the Marathi literature. Therefore, it is decided to organize Marathi Sahitya Sammelan in January may be in Vivekanand saptah. The responsibility to organize this event is given to Marathi department.

10. Workshop on climate change.

With rapidly expanding scientific information on climate change and it's impacts, it is increasingly important for WHO to work directly with vulnerable nations, to raise awareness of human health implications, and to plan effective responses. Therefore issue regarding organization of workshop is discussed and decision has been taken to organize workshops on Climate Change in second term in collaboration with The Climate Reality Programmee, India.

11. To organize Health Checkup camp for teaching and non teaching faculty.

Free medical camps are set up with a aim to bring awareness amongst the faculty of the college who have no access to basic healthcare services or knowledge about the diseases they are suffering from. So, medical camps provide free medical advice, medicine to the unfortunate people and refer for specialized treatment or surgery whenever it is required. Therefore it was decided that to organize free health check-up camp for teaching faculty, non-teaching staff and students.

12. Discussion on organization of Study Tours/Industrial visits.

To provide an opportunity to study the social cultural changes, values, social practice and phenomena in different parts of the country to the students. Therefore, issue regarding organization of Industrial/study tour is discussed and decision has been taken to organize the study tours by respective departments to different places, institutions and fields and the travelling should be carried out through RTO permitted vehicles.

13. Organization of workshop on IPRs.

IPRs are legal rights that protect creations and/or inventions resulting from intellectual activity in the industrial, scientific, literary or artistic fields. The most common IPRs include patents, copyrights, marks and trade secrets. Therefore to aware the students and faculty about IPRs, IQAC committee discussed and decided to organize one workshop/seminar on IPRs.

14. Organization of Parent-Teacher Meet.

Parent-Teacher Meet provide an opportunity to identify their child's current strengths and weaknesses, to open two ways communication for the welfare of kid, platform for parent and teacher to share insights and information for the holistic development of a child. Therefore IQAC Committee decided to organize Parent-Teacher Meet to provide common plant two teacher and parents.

• The meeting of IQAC was held at 11.30 a.m. on 16.12.2019 in IQAC meeting hall. The following members were present.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|------------|----------------------------|------------------------------|------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Lammen |
| 2 | Prof. Dr. Suresh S. Patil | IQAC, Director | Batil |
| 3 | Dr. V. Y. Pawar | Member | Telorus - |
| 4 | Mr. K. S. Patil | Member | Arah |
| 5 | Dr. J. S. Ghodake | Member | Ata_ |
| 6 | Dr. A. P. Inamdar | Member | AlkeInandy |
| 7 | Dr. S. A. Khabade | Member | - thurty |
| 8 | Dr. B. T. Kanase | Member | Bos |
| 9 | Dr. T. K. Badame | Member | Malandall |
| 10 | Mr. V. S Patil | Management Representative | - 45 - |
| 11 | Mr. M. B. Kadam | Administrative Officer | Merudan |
| 12 | Mr. A. P. Chavan | Local Society | - Ab - |
| 13 | Miss. Sanyuja Suresh Patil | Student Representative | Fatit. |
| 14 | ADV. Krishna Patil | Member of Alumni | Huny - |
| 15 | Mr. Satish Mali | Industrialist | deab |

ATTENDANCE REPORT

Dr. Suresh S. Pati IQAC, Director

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Prin. Dr. Milind S. Hujare Prince Pri



Date: 17 / 01/ 2020

MEETING NOTICE

All the members of Internal Quality Assurance Cell (IQAC) here by informed that a meeting of IQAC is convened on 24/01/2020 at 11:30 in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

AGENDA OF MEETING

- 1. Review of minutes of 3rd IQAC Meeting
- 2. Discussion on to organize annual prize distribution.
- 3. Discussion on organization of Graduation Day
- 4. Discussion on increasing percentage of students in student satisfaction survey.
- 5. Discussion on feedbacks taken from all stakeholders.

IQAC COMMITTEE

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|---------|----------------------------|---------------------------|----------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | (Hannum) |
| 2 | Prof. Dr. Suresh S. Patil | IQAC, Director | State. |
| 3 | Dr. V. Y. Pawar | Member | annun - |
| 4 | Mr. K. S. Patil | Member | TOTAL |
| 5 | Dr. J. S. Ghodake | Member | An |
| 6 | Dr. A. P. Inamdar | Member | Ally I mension |
| 7 | Dr. S. A. Khabade | Member | Alabate |
| 8 | Dr. B. T. Kanase | Member | Bars |
| 9 | Dr. T. K. Badame | Member | Trana dail |
| 10 | Mr. V. S Patil | Management Representative | mala |
| 11 | Mr. M. B. Kadam | Administrative Officer | persections |
| 12 | Mr. A. P. Chavan | Local Society | Aler |
| 13 | Miss. Sanyuja Suresh Patil | Student Representative | Farth. |
| 14 | Adv. Krishna Patil | Member of Alumni | Hanni |
| 15 | Mr. Satish Mali | Industrialist | that |

Dr. Suresh S. Patil IQAC, Director

- On A lanure

Prin. Dr. Milind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil

Mehavidyalaya, Tasgaon (Sangli),

MINUTES OF IQAC MEETING

The Director, IQAC Prof. Suresh Patil welcomed the members for the second meeting of IQAC. The following points were discussed in the meeting:

1. Review of minutes of 3rd IQAC Meeting

The minutes of the meeting held on 15/11/2019 are approved by the Council.

2. Discussion on to organize annual prize distribution.

Prize distribution marks the culmination of literary and extra-curricular activities in a college. Prizes are awarded to inspire a healthy sense of competition among the students. Students are kept busy round the year in

studies, games and sports and other literary activities like debates, essay writing, elocution and stage shows. It encourages them to aspire for excellence. Therefore an issue regarding the organizing of the annual prize distribution for the academic year 2019-20 has been discussed. A decision has been taken to call auspicious guest for the function who has known for the social work. The decision has also been taken to invite the honorable Secretary of the Management to felicitate all award winning students..

2. Discussion on organization of Graduation Day

. As per University guidelines every year College organizes Graduation Day and felicitates rankers of each subjects. Committee decided to organize Graduation Day in the month of March and responsibility has been given to College function committee..

3. Discussion on preparation and submission of Departmental and Faculty profiles.

Issue regarding preparation of Departmental and Faculty profiles is discussed and it is decided that all department should prepare their departmentalprofiles along with faculty profiles and submit before 30 April 2020 to IQAC. .

4. Discussion on increasing percentage of students in student satisfaction survey.

The objectives of the student satisfaction survey are to assess student satisfaction with respect to academic support, learning resources, organization and management, assessment and feedback, personal development of the students. Some committee members raised issue regarding less participation of students in student satisfaction survey. It has been decided that motivate the students to participate in student satisfaction survey to be conducted at the end of academic year. The responsibility is given to all Head of departments for counseling the students for participation in the survey.

5. Discussion on feedbacks taken from all stakeholders.

Issue regarding online feedbacks from Students, Faculty, Alumni and Parents is discussed and it has been decided to motivate all stakeholders by

respective departments to fill the online feedback forms from College website before University examination started.

The meeting of IQAC was held at 11.30 a.m. on 24.01.2020 in IQAC meeting hall. The following members were present.

| Sr. No. | Name of the IQAC Member | Designation | Signature |
|---------|----------------------------|------------------------------|--------------|
| 1 | Prin. Dr. Milind S. Hujare | Chairperson | Altround |
| 2 | Prof. Dr. Suresh S. Patil | IQAC, Director | Latil. |
| 3 | Dr. V. Y. Pawar | Member | (a) 11/2 - |
| 4 | Mr. K. S. Patil | Member | Maty |
| 5 | Dr. J. S. Ghodake | Member | an -1 |
| 6 | Dr. A. P. Inamdar | Member | Olly Engende |
| 7 | Dr. S. A. Khabade | Member | Scholate |
| 8 | Dr. B. T. Kanase | Member | Bas |
| 9 | Dr. T. K. Badame | Member | MATANALALIN |
| 10 | Mr. V. S Patil | Management Representative | nah |
| 11 | Mr. M. B. Kadam | Administrative Officer | mandin |
| 12 | Mr. A. P. Chavan | Local Society | - 46 - |
| 13 | Miss. Sanyuja Suresh Patil | Student Representative | Fatil |
| 14 | Adv. Krishna Patil | Member of Alumni | - A 6 - |
| 15 | Mr. Satish Mali | Industrialist | - 40 - |

Dr. Suresh S. Patil

IQAC, Director



Dominal

Prin. Dr. Milind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil

Mahavidyalaya, Tasgaon (Sangli).



Ref.No. : PDVPMT/

FOUNDER

Date :

SECRETARY

ACTION TAKEN REPORT (IQAC) 2019-20

lie Works

CHAIRMAN

| Sr. No. | Plan of Action | Action Taken |
|---------|--|---|
| | First Meeting on (| 05/06/2019 |
| 1 | Review of minutes of previous IQAC | The minutes of the previous meeting are |
| | Meeting | approved by the Council. |
| 2 | To organize felicitation function for | Felicitation function was successfully |
| | Mauritius students. | organized. |
| 3 | Discussion on preparation and Submission | AQAR 2018-2019 was prepared and |
| | of AQAR 2018-19. | successfully submitted to NAAC on |
| | | December 2019 |
| 4 | To audit the Academic and Administrative | Academic and Administrative audit of |
| | status of college by internal committee. | College was done by Committee appointed |
| | | and submitted to Principal. |
| 5 | Discussion and Preparation of Academic | Academic Calendar was prepared and |
| | Calendar for academic year 2019-20. | uploaded on College website. |
| 6 | Discussion and Planning for preparation | CIE Calendar was prepared and |
| | of calendar for CIE system and | implemented successfully during academic |
| | implementation. | year. |
| 7 | To increase number of field projects. | Incredible number of field projects |
| | | increased during the academic year |
| | | conducted by various departments. |
| 8 | To Strengthen MIS system | MIS system of the office is strengthened. |
| 9 | Discussion on up gradation of Website. | College website is upgraded. |

| 10 | Discussion on incentive funding for | Vasantavishkar Research Project |
|-----|---|--|
| | research project. | competition is organized in the institute |
| 11 | Discussion on to organize discussion on to | Departmental MOUs are increased |
| | increase collaboration/linkages with other institution. | throughout the year. |
| 12 | Discussion on Financial support to the | Dr. Ambhore has given the financial |
| | faculty to participate in seminar and | support for participation. |
| 13 | Discussion on planning for Bain water | Pain water from the roof of the College |
| 15 | barvacting | huilding is collected to recharge the here |
| | narvesting. | well as well as for conducting surrange and |
| | | wen as wen as for gardening purpose and |
| | | institute |
| 14 | To anomize Health Cheeleys area for | Ease Check we seeme was appended on |
| 14 | tooching and non tooching faculty | 22/07/2010 |
| 1.5 | bin in teaching faculty. | |
| 15 | Discussion on to increase the number of | Number of Certificate courses are |
| | certificate courses. | enormously increased |
| | Second Meeting on | 1 24/08/2019 |
| 16 | Review of minutes of 1 st IQAC Meeting | The minutes of the meeting held on |
| | | 05/06/2019 were approved by the Council. |
| 17 | Organization of workshops on various | 1. One Day Workshop On Gardening |
| | themes. | 2. One Day Workshop On Insurance |
| | | Agent |
| | | 3. Workshop on revised CBCS |
| | | 1 |
| | | SYLLABUS for B.Sc.II BOTANY |
| | | SYLLABUS for B.Sc.II BOTANY 4. One Day Workshop On Research |
| | | SYLLABUS for B.Sc.II BOTANY 4. One Day Workshop On Research Methodology |
| | | SYLLABUS for B.Sc.II BOTANY 4. One Day Workshop On Research Methodology 5. Workshop On Jewellary Designing. |
| | | SYLLABUS for B.Sc.II BOTANY 4. One Day Workshop On Research Methodology 5. Workshop On Jewellary Designing, Salad Preparation |
| | | SYLLABUS for B.Sc.II BOTANY 4. One Day Workshop On Research Methodology 5. Workshop On Jewellary Designing, Salad Preparation 6. One Day Workshop On Intellectual |
| | | SYLLABUS for B.Sc.II BOTANY 4. One Day Workshop On Research Methodology 5. Workshop On Jewellary Designing, Salad Preparation 6. One Day Workshop On Intellectual Property And Patenting System |

| | | various themes. |
|----|---|---|
| 18 | To audit the energy utilization of college. | Energy utilization audit of college was done |
| | | by external agency and submitted to |
| | | Principal. |
| 19 | To audit green incentive taken by college. | Green audit of the College campus was |
| | | done by external agency and submitted to |
| | | Principal. |
| 20 | To Audit the gender status of the college. | Gender audit of the college was done by |
| | | Women Empowerment Cell and report is |
| | | submitted to Principal. |
| 21 | Discussion and organization on various | Two community activities were conducted |
| | community activities. | by Chemistry and Botany departments. |
| 22 | To organize Vasantavishkar Research | Vasantavishkar Research Competition was |
| | Competition. | successful on30/12/2019. In all 78 Students |
| | | participated and presented their research |
| | | work during this unit. |
| 23 | To construct the Botanical Garden. | New Botanical Garden is constructed |
| 24 | Discussion on to implementation of No | Fourth Saturday of every month No vehicle |
| | vehicle day, Plastic free campus. | day is strictly implemented in the institute |
| | | campus and awareness of Plastic free |
| | | campus among the students is also strictly |
| | | implemented |
| 25 | Discussion on Preparation and Publication | Green Book on e-flora of standing plants in |
| | of green book. | College campus was prepared and published |
| | | on college website. |
| 26 | To construct Smart and Digital | Three digital classrooms one for each |
| | Classrooms. | faculty (Arts, Com., and Science) were |
| | | constructed regularly used by faculty |
| | | members and students. |
| 27 | Organization of Training program on E- | Workshop on creation and operation of |
| | content development. | Google Classroom for students and faculty was organized on 25th July 2019 |
| | | Training Programme on operation of |
| | | Digital Classroom for faculty members and students was organized on 23/12/2019. |
| 28 | Organization of NAAC Expert Faculty | NAAC Expert-Faculty interaction program |
| | | |

| | exchange program | was organized on 11/12/2019 |
|----|---|--|
| | Third Meeting on | 10/12/2019 |
| 29 | Review of minutes of 2 nd IQAC Meeting | The minutes of the meeting held on 24/08/2019 are approved by the Council. |
| 30 | Discussion on Celebration of Vivekananda saptah. | Celebration of Vivekananda Saptah is tradition of our mother institution. In this academic year our IQAC planed and successfully organized various activities and competitions during 12 January 2020 to 19 January 2020. |
| 31 | To organize of Alumni meets. | Alumni meet was organized on 18th January 2020. |
| 32 | To organize of Marathon competition. | On 16 January 2020 Marathon competition was organized and 192 students were actively participated in this event. |
| 33 | To organize Annual sports competition. | Annual sports competitions on various sports events were organized during 12 th January to 19 th January 2020 |
| 34 | To organize the Cultural Activity Competition. | Cultural Activity Competitions on various events were organized during Celebration of Vivekanand Saptah 12-19 January 2020. |
| 35 | To organize Competitive exam Carnival. | To aware students about competitive examinations we successfully organized Competitive Exam Carnival on 16/01/2020 TO 17/01/2020. |
| 36 | To organize Job Fair. | To provide opportunity college organized Job Fair in collaboration with Tasgaon Muncipal corporation and Zilla Udyog Kendra on 25/02/2020 |
| 37 | To organize Sahitya sammelan. | Sahitya Sammelan was successfully organized on 13/01/2020 |
| 38 | To organize workshop on Climate change. | Teacher Training workshop on climate change, sustainable development goals and green campus was organized on 14th Feb |

| | | 2020 in collaboration with Climate Reality |
|----------------------|---|--|
| | | Project India. |
| 39 | Discussion on organization of Study | Study Tours/Industrial tours were organized |
| | Tours/Industrial. | by various departments at different places. |
| 40 | Organization of workshop on IPR. | One Day Workshop on Intellectual Property |
| | | and Patenting System in India was |
| | | organized on 24 th January 2020. |
| 41 | Organization of Parent–Teacher Meet | Parent-Teacher Meet was successfully |
| | | organized on 18/01/2020. |
| | Fourth Meeting on | 24/01/2020 |
| 42 | Review of minutes of 3 rd IQAC Meeting | The minutes of the meeting held on |
| | | 10/12/2019 are approved by the Council. |
| 43 | Discussion on to organize annual prize | |
| 15 | Discussion on to organize annual prize | Annual Prize distribution function was |
| 15 | distribution. | Annual Prize distribution function was organized on 13/01/2020. |
| 44 | distribution. Discussion on organization of Graduation | Annual Prize distribution function was organized on 13/01/2020. Due to COVID pendamic situation Institute |
| 44 | distribution. Discussion on organization of Graduation Day | Annual Prize distribution function was organized on 13/01/2020. Due to COVID pendamic situation Institute was unable to organize such programme |
| 44 | Discussion on to organize annual prize distribution. Discussion on organization of Graduation Day Discussion on preparation and submission | Annual Prize distribution function was organized on 13/01/2020. Due to COVID pendamic situation Institute was unable to organize such programme Due to COVID pendamic situation Institute |
| 44 | Discussion on to organize annual prize distribution. Discussion on organization of Graduation Day Discussion on preparation and submission of Departmental and Faculty profiles. | Annual Prize distribution function was organized on 13/01/2020. Due to COVID pendamic situation Institute was unable to organize such programme Due to COVID pendamic situation Institute was unable to organize such programe, it is |
| 44 45 | Discussion on to organize annual prize distribution. Discussion on organization of Graduation Day Discussion on preparation and submission of Departmental and Faculty profiles. | Annual Prize distribution function was organized on 13/01/2020. Due to COVID pendamic situation Institute was unable to organize such programme Due to COVID pendamic situation Institute was unable to organize such programe, it is too late. |
| 44 45 46 | Discussion on to organize annual prize distribution. Discussion on organization of Graduation Day Discussion on preparation and submission of Departmental and Faculty profiles. Discussion on increasing percentage of | Annual Prize distribution function was organized on 13/01/2020. Due to COVID pendamic situation Institute was unable to organize such programme Due to COVID pendamic situation Institute was unable to organize such programe, it is too late. Link of SSS was shared on Whatsapp group |
| 44 45 46 | Discussion on to organize annual prize distribution. Discussion on organization of Graduation Day Discussion on preparation and submission of Departmental and Faculty profiles. Discussion on increasing percentage of students in student satisfaction survey. | Annual Prize distribution function was organized on 13/01/2020. Due to COVID pendamic situation Institute was unable to organize such programme Due to COVID pendamic situation Institute was unable to organize such programe, it is too late. Link of SSS was shared on Whatsapp group to increase the |
| 44 45 46 47 | Discussion on to organize annual prize distribution. Discussion on organization of Graduation Day Discussion on preparation and submission of Departmental and Faculty profiles. Discussion on increasing percentage of students in student satisfaction survey. Discussion on feedbacks taken from all | Annual Prize distribution function was organized on 13/01/2020. Due to COVID pendamic situation Institute was unable to organize such programme Due to COVID pendamic situation Institute was unable to organize such programe, it is too late. Link of SSS was shared on Whatsapp group to increase the Link of SSS was shared on Whatsapp group |

Alka Ineund IOAC Co-Ordinator, PD VP Mahavidyalaya, Tasgaon



Prin. Dr. Milind S. Hujare Padmabhushan Dr. Vasantraodada Patil

Mahavidyalaya, Tasgaon (Sangli).

"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. वापूजी साळुंखे Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist- Sangli

Date:-07/07/2018

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 13/07 /2018 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Felicitation of meritorious students.

2. Sports activities.

3. Preparation of AQAR of 2017-18.

4. Placements of the students.

5. Competitive examinations.

6. Participation of students in cultural activities and women empowerment program.

7. Internal Exams and Lead College Programs.

8. Purchase of computers and higher equipments.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | PEEL |
| 2 | Dr. V. Y. Pawar | Teacher | and - |
| 3 | Mr. K. S. Patil | Teacher | Baty |
| 4 | Mr. M. D. Patil | Teacher | mai |
| 5 | Dr. J. S. Ghodake | Teacher | An |
| 6 | Dr. B. T. Kanase | Teacher | Bal |
| 7 | Dr.S.Y.Hongekar | Management Representative | Oh. |
| 8 | Mr. M.B.Kadam | Administrative Officer | mand |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | |
| 10 | Mr. Dilip Joglekar | Industrialist | tabulas |
| 11 | Dr. Mansing Jadhav | Stakeholder | ALLANT |
| 12 | Miss. Sanyjuja Suresh Patil | Student | satil |
| 13 | Mr. A.B.Kamble | Alumni | Kong |
| 14 | Dr.N.A.Kulkarni | Coordinator | Stute |
| | | | |





(Dr. R. R. Kumbhar) Principal Padmabhushan Dr Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.)

Minutes of IQAC Meeting

The minutes of the meeting are given bellow.

 The students of the college are continuously excelled in various university exams and other activities in the preceding year. It is necessary to motivate them by felicitating them publically. The IQAC members have suggesting organizing a separate felicitation function of these merit holder students of the last semester.

The issue has been raised by Shri. K. S. Patil

The issue has been supported by Shri.A. B. Kamble

Outcome – A separate felicitation function of merit holder students of the last semester was successfully organized.

 The issue regarding the participation of students in various sports activities has been discussed. It has been decided to suggest motivating the students for the participation in various sports activities.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Dr.Mansing Jadhav

Outcome – Many of the students have participated in various sports activities and performed satisfactorily.

3. An issue of preparing and sending the AQAR of 2017-18 to NAAC Bangalore before the valid period has been raised in the meeting. The IQAC committee is suggesting the IQAC Coordinator and Principal of the College to prepare and send theAQAR of 2017-18 to NAAC Bangalore before valid period.

The issue has been raised by Prin. Dr. S Y .Hongekar

The issue has been supported by Shri. Avinash Kaka Patil

Outcome – The AQAR of 2017-18 has been prepared and sent to NAAC Bangalore before due period.

4. An issue of on campus and off campus placements of the students has been raised in the meeting. The IQAC committee has been suggesting to the placement cell of the college to contact more companies and invite them in the college for the placements of more and more students of the college.

The issue has been raised by Dr. Mansing Jadhav The issue has been supported by Shri. M. B. Kadam

Outcome – Number of students have got the placements in on campus and off campus placement camps. The report is with placement cell department

5. An issue regarding the students' performance and coaching for competitive examinations has been raised in the meeting. The IQAC has suggested to conduct the guest lectures of experienced persons in the field should be arranged and some workshops should be organized for the students. The IQAC committee has suggested conducting some mock competitive tests for the students.

The issue has been raised by Shri. Dilip Joglekar The issue has been supported by Shri. K. S. Patil

Outcome - The guest lecturers of experienced persons were arranged.

6. The IQAC committee has discussed an issue of participation of students in various cultural, essays, elocution and debating competition has been discussed in the meeting. The IQAC committee has suggested to motivate the students for participation in various cultural, essay, elocution and debating competition.

The issue has been raised by Shri. A. B. Kamble

The issue has been supported by Dr. J. S. Ghodake

Outcome – Number of students were participated in various cultural, essay, elocution and debating competition.

7. An issue of internal complaints and women empowerment programs for the girl students of the college has been raised in the meeting. The IQAC has suggested to organize the supportive programs on internal complaints and women empowerment for girl students

The issue has been raised by Shri. M. D. Patil

The issue has been supported by Dr. N. A. Kulkarni

Outcome – Various programs of internal complaints and women empowerment programs for the girl students has been organized.

8. An issue of Continuous Internal Evaluation (CIE) with respect to NAAC guidelines has been discussed in the meeting. The committee members have suggested for conducting various tests like class tests, open book tests, surprise tests, seminars and group discussions for the improvement of the students' performance in the university examinations.

The issue has been raised by Prin. Dr. S. Y. Hongekar

The issue has been supported by Dr. Mansing Jadhav

Outcome – Various tests like class tests, open book tests, surprise tests, seminars and group discussions for the improvement of the students' performance in the university examinations were conducted during the period.

9. The IQAC members have suggested arranging some guest lectures of some eminent speakers in the upcoming academic year. The issue has been raised by Shri. K. S. Patil The issue has been supported by Shri. Dilip Joglekar

Outcome - Some guest lecturers of eminent speakers' sere arranged.

10.Functioning of Lead College Scheme in the college has been discussed in the meeting. The IQAC members have decided to suggest the lead college committee to undertake maximum student central activities under this scheme.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome – Number of student central activities under Lead College scheme were arranged.

11.An issue of role of media and film making in the society has been considerably increasing day by day. The committee thinks that the students of the college should know the techniques in media and film making. Keeping in mind the committee has decided to suggest to conduct some special workshops on media and film making. The issue has been raised by Shri. Avinash Kaka Patil The issue has been supported by Shri. A. B. Kamble

Outcome –A special workshop on media and film making under the guidance of famous Marathi film director and producer Shri. Yashvant Bhalkar has been arranged on 18/09/1018.

12.An issue of organizing departmental alumni meet has been raised by some members. The committee thinks that the alumni students of the college should invited and motivate them to participate in various college activities. Keeping in mind the committee has decided to suggest Chemistry department to conduct the alumni meet of their department. The issue has been raised by Prin. Dr. R. R. Kumbhar The issue has been supported by Shri. M. B. Kadam

Outcome – Chemistry department has conducted the alumni meet of their department on 10/11/2018.

13. An issue of Purchase of computers and higher equipments has been raised In meeting and decision has been made to purchase the above material by prescribed format.

The issue has been raised by Shri. Dilip Joglekar The issue has been supported by Shri. M. D. Patil

Outcome – Purchase of computers and higher equipments has been made by prescribed format.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | pre |
| 2 | Dr. V. Y. Pawar | Teacher | GULLAS- |
| 3 | Mr. K. S. Patil | Teacher | Black |
| 4 | Mr. M. D. Patil | Teacher | Main |
| 5 | Dr. J. S. Ghodake | Teacher | Au. |
| 6 | Dr. B. T. Kanase | Teacher | Pap |
| 7 | Dr.S.Y.Hongekar | Management Representative | an |
| 8 | Mr. M.B.Kadam | Administrative Officer | maria |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | - |
| 10 | Mr. Dilip Joglekar | Industrialist | 1anews |
| 11 | Dr. Mansing Jadhav | Stakeholder | Home |
| 12 | Miss. Sanyjuja Suresh Patil | Student | south |
| 13 | Mr. A. B. Kamble | Alumni | Kamphs |
| 14 | Dr. N. A. Kulkarni | Coordinator | Aubur |

Automi (Dr. N. A. Kulkarni) IQAC Co-Ordinator, PD V P Manavidyalaya, Tasgaon



(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.) "ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Dist-Sangli

Date:-07/10/2018

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 13/10/2018 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Conduct of study tours.

2. Organization of 'VASANTAVISHKAR' and 'AVISHKAR.' Poster competition.

3. Celebration of 'VIVEKANAND SAPTAH.'

4. Analysis of university results.

| Sr. No. | Name | Designation | Signature |
|---------|-----------------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | Peer |
| 2 | Dr. V. Y. Pawar | Teacher | Can we - |
| 3 | Mr. K. S. Patil | Teacher | Falat |
| 4 | Mr. M. D. Patil | Teacher | Adi |
| 5 | Dr. J. S. Ghodake | Teacher | Ahren |
| 6 | Dr. B. T. Kanase | Teacher | Bar |
| 7 | Dr. S. Y. Hongekar | Management Representative | an |
| 8 | Mr. M. B. Kadam | Administrative Officer | Maria |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | - Pilite |
| 10 | Mr. Dilip Joglekar | Industrialist | 1 aquar |
| 11 | Dr. Mansing Jadhav | Stakeholder | Hann |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Fatil |
| 13 | Mr. A. B. Kamble | Alumni | Kamil |
| 14 | Dr. N. A. Kulkarni | Coordinator | Stulke |

Hulkari A.Kulkarni) C Co-Ordinator. PD.VP. Mahavidyalaya, Tasgaon.



(Dr.R.R.Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.)

Minutes of IQAC Meeting

The minutes of the meeting are given bellow.

 The issue of felicitation of merit holder students has risen by some members to motivate the other students. A decision has been taken to arrange a lecture of an eminent speaker on the occasion.
 The issue has been raised by Dr. J. S. Ghodake
 The issue has been supported by Shri. A. B. Kamble

Outcome - A program of felicitation of merit holder students has been arranged.

2. An issue of organizing study tours by various departments has been raised by some members. A decision has been taken to organize the study tours to the places of educational interest and the travelling should be carried out through RTO permitted vehicles.

The issue has been raised by Shri. M. D. Patil

The issue has been supported by Shri. K. S. Patil

Outcome – Various departments have organized study tours at various places of their subject interest.

3. Creating research atmosphere among the students is a key issue in higher educational institutes. An issue of organizing research oriented poster competition has been raised by some members. It has been decided to organize an annual research oriented 'Vasantavishkar' poster competition in the last week of December. A decision has also been taken to send more and more quality posters to the district level 'Avishkar' poster competition organized by Shivaji University, Kolhapur.

The issue has been raised by Dr. J. S. Ghodke

The issue has been supported by Dr. B. T. Kanase

Outcome – An annual research oriented 'Vasantavishkar' poster competition has been arranged in the last week of December.

4. An issue of organizing research oriented poster competition at district level has been raised by some members. It has been decided to send the proposal to organize an annual research oriented district level 'Avishkar' poster competition sponsored by Shivaji University, Kolhapur for Sangli District.

The issue has been raised by Dr. Mansing Jadhav

The issue has been supported by DilipJoglekar

Outcome - The Sangli district level 'Avishkar' poster competition sponsored by Shivaji University, Kolhapur has been organized on 24/12/2018.

5. An issue of celebration of annual 'Vivekananda Saptah' has been raised by some members. A decision has been taken to organize this week in a systematic manner. The decision has been taken to organize various competitions during the week to give the students a chance to show their art and skills. Suggestion has been given to organize rangoli, essay, and elocution competition for the students.

The issue has been raised by Avinash Kaka Patil

The issue has been supported by Prin. Dr. R. R. Kumbhar

Outcome – An annual 'Vivekananda Saptah' has been arranged in a systematic manner. Various competitions like rangoli, essay, elocution competition has been organized during the week to give the students a chance to show their art and skills.

6. An issue of performance of the students in the first semester in university examinations has been discussed in the meeting. Discussion has been made to analyze the results and take the steps to improve the results. The issue has been raised by Dr. J. S. Ghodake

The issue has been supported by Shri. A. B. Kamble

Outcome – Performance of the students in the first semester in university examinations has been discussed in the meeting.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|-----------|
| 1 | Dr.R.R.Kumbhar | Chairman | PER |
| 2 | Dr. V. Y. Pawar | Teacher | (and - |
| 3 | Mr. K. S. Patil | Teacher | Bat |
| 4 . | Mr. M. D. Patil | Teacher | mai |
| 5 | Dr. J. S. Ghodake | Teacher | Da |
| 6 | Dr. B. T. Kanase | Teacher | Pool |
| 7 | Dr.S.Y.Hongekar | Management Representative | - |
| 8 | Mr. M.B.Kadam | Administrative Officer | made |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | July. |
| 10 | Mr. Dilip Joglekar | Industrialist | 1athores |
| 11 | Dr. Mansing Jadhav | Stakeholder | Atum |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Fatt |
| 13 | Mr. A.B.Kamble | Alumni | Kind |
| 14 | Dr.N.A.Kulkarni | Coordinator | Mulpatrie |

Hulkavi (Dr. N. A. Kulkarni) IQAC Co-Ordinator, PD V P. Manavidyalaya, Tasgaon



par (Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.) "ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहयों डॉ. बापूजी साळुंखे Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist- Sangli

Date:-07/01/2019

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 13/01/2019 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Organization of annual sports day.

2. Organization of 'ANTI TOBACCO CAMPAIGN.'

3. Workshops on various aspects.

4. Program for Voter Awareness and EVM, VVPAT machine.

5. Organization of Self funded conferences.

6. Organization of first convocation program.

7. Distribution of Government Scholarships.

| Sr. No. | Name | Designation | Signature |
|---------|-----------------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | peu |
| 2 | Dr. V. Y. Pawar | Teacher | Callet (|
| 3 | Mr. K. S. Patil | Teacher | Frans |
| 4 | Mr. M. D. Patil | Teacher | Mar |
| 5 | Dr. J. S. Ghodake | Teacher | Aur |
| 6 | Dr. B. T. Kanase | Teacher | Bar-e |
| 7 | Dr.S. Y. Hongekar | Management Representative | am |
| 8 | Mr. M.B.Kadam | Administrative Officer | MBRIN |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | - |
| 10 | Mr. Dilip Joglekar | Industrialist | 10kilos > |
| 11 | Dr. Mansing Jadhav | Stakeholder | Atriam |
| 12 | Miss. Sanyjuja Suresh Patil | Student | forth. |
| 13 | Mr. A. B. Kamble | Alumni | kants |
| 14 | Dr. N. A. Kulkarni | Coordinator | Multer |

alrw dinator. PDVP Mahavidyalaya, Tasgaon.



Minutes of IQAC Meeting

The minutes of the meeting are given bellow.

 The issue regarding the organizing of the annual sports day for the academic year 2018-19 has been discussed. A decision has been taken to call auspicious guest for the function who has known for the social work. The decision has also been taken to invite the honorable Secretary of the Management.

The issue has been raised byDr. Mansing Jadhav

The issue has been supported by Shri. Avinash Dinkarrao Patil

Outcome –Invited Mrs. Rani Patil (YASHDA, Pune) and Secretary of the management Mrs. Shubhangi Gavde.

The student strength of the college is day by day increasing. There is a possibility of increase in the student strength in the

Upcoming year also. The increased student strength needs additional care regarding the bad habits of the students. The attraction towards the tobacco and allied chewing is increasing day by day. Some members of the committee are worried about these bad habits in the college campus. Suggestions are made to arrange some functions for "Anti Tobacco Campaign." The IQAC committee is suggesting the NSS unit to conduct this activity as early as possible.

The issue has been raised by Shri. M. D. Patil

The issue has been supported by Shri. Dilip Joglekar

Outcome –Anti Tobacco Campaign Poster Competition has been organized on 24/01/2019.

3. Some members of the committee have raised the issue of organizing some subject related workshops in the remaining time of January and February months. The suggestions are made to organize some workshops regarding Competitive Exams, Industrial Training, Mathematics, Scientific Terminologies, and Climate Change. The issue has been raised byShri. M. D. Patil

The issue has been supported by Shri. Dilip Joglekar

Outcome –The programs were arranged by Economics, Chemistry, Mathematics, Zoology departments.

 The IQAC committee has been suggesting conducting some awareness program among the new voters and the new EVM machine among the students and common people.

The issue has been raised byShri. M. B. Kadam

The issue has been supported by Dr. N. A. Kulkarni

Outcome – An awareness program among the new voters and the new EVM machine among the students and common people has been arranged on 25/01/2019 by sociology department.

 An issue of some field surveys has been discussed in the meeting. The committee has decided to suggest asocial survey of the selected village.

The issue has been raised by Dr. J. S. Ghodake

The issue has been supported by Shri. A. B. Kamble

Outcome – The Geography department has conducted a village survey of Chikhalgothane on 02/02/2019.

6. The IQAC committee has discussed an issue of organization of the seminar and conferences. Now a day the funding agencies are not happy to give the funds for organization of the seminar and conferences. The IQAC committee has suggested organizing selffunded National and International conferences on the occasion of the birth centenary year of Dr. Bapuji Salunkhe.

The issue has been raised by Prin. R. R. Kumbhar

The issue has been supported by Shri. Dilip Joglekar

Outcome - An International Conference has been arranged at Pachagani

7. An issue of performance of the students in university examinations has been discussed in the meeting. Discussion has been made to develop educational atmosphere in the college campus. IQAC has suggested developing a healthy and favorable academic atmosphere by providing maximum facilities for the students to achieve the positions in university merit list in upcoming academic year 2018-19. The issue has been raised by Shri. Dilip Joglekar The issue has been supported by Shri. M. D. Patil Outcome – Consecutive second time the college has got the award of "Highest merit scholarships in rural category."

8. An issue of undertaking various extension activities through NCC and NSS has been discussed in the meeting. The members have suggested to NSS and NCC to undertake the activities which will be helpful to the society.

The issue has been raised by Prin. Dr. S. Y. Hongekar

The issue has been supported by Shri. K. S. Patil

Outcome – Various extension activities through NCC and NSS has been arranged.

9. An issue of organizing upcoming 'International Yoga Day' in the college has been discussed in the meeting. The members have suggested arranging the yoga for the faculty and to the students. It is suggested that the NSS and NCC students to undertake the yoga publically.

The issue has been raised by Shri. M. B. Kadam

The issue has been supported by Dr. N. A. Kulkarni

Outcome - The day has been celebrated widely.

 An issue of organizing first convocation ceremony in the college has been discussed in the meeting.

The issue has been raised by Shri. M. B. Kadam

The issue has been supported by Dr. N. A. Kulkarni

Outcome - The convocation ceremony has been celebrated widely.

11.An issue of distribution of government scholarships of the students has been discussed in the meeting.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome – The distribution of government scholarships of the students has been has been successfully completed.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | Peel |
| 2 | Dr. V. Y. Pawar | Teacher | Caller- |
| 3 | Mr. K. S. Patil | Teacher | Rati |
| 4 | Mr. M. D. Patil | Teacher | main |
| 5 | Dr. J. S. Ghodake | Teacher | Atros |
| 6 | Dr. B. T. Kanase | Teacher | Bol |
| 7 | Dr. S. Y. Hongekar | Management Representative | m |
| 8 | Mr. M. B. Kadam | Administrative Officer | Manden |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | - |
| 10 | Mr. Dilip Joglekar | Industrialist | 16heleas |
| 11 | Dr. Mansing Jadhav | Stakeholder | Herr |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Fortil. |
| 13 | Mr. A. B. Kamble | Alumni | Ento |
| 14 | Dr. N. A. Kulkarni | Coordinator | Stutter |



(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.) "ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. वापूजी साळुंखे Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist- Sangli

Date:-07/04/2019

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 13/04/2019 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Development of Entrepreneurial and Skill Development Center.

2. Purchase of quality books.

3. Development of additional infrastructure.

4. Preparation of Departmental Profile.

5. Quality publications by faculty.

6. Organization of seminar and conferences.

7. Performance of students in university examinations.

8. NSS, NCC and YOGA activities.

9. Celebration of birth centenary year of Dr.Bapuji Salunkhe.

| Sr. No. | Name | Designation | Signature |
|---------|-----------------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | peur |
| 2 | Dr. V. Y. Pawar | Teacher | Wour - |
| 3 | Mr. K. S. Patil | Teacher | Blatil |
| 4 | Mr. M. D. Patil | Teacher | Oran |
| 5 | Dr. J. S. Ghodake | Teacher | The |
| 6 | Dr. B. T. Kanase | Teacher | Bat |
| 7 | Dr.S.Y. Hongekar | Management Representative | en |
| 8 | Mr. M. B. Kadam | Administrative Officer | Marian |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | M.M. |
| 10 | Mr. Dilip Joglekar | Industrialist | 1agutus |
| 11 | Dr. Mansing Jadhav | Stakeholder | atam |
| 12 | Miss. Sanyjuja Suresh Patil | Student | 50AL |
| 13 | Mr. A. B. Kamble | Alumni | Kambul |
| 14 | Dr.N. A. Kulkarni | Coordinator | Hulke |





(Dr. R. R. Kumbhar) Principal Padmabhushan Dr Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.)

Minutes of IQAC Meeting

The minutes of the meeting are given bellow.

 The issue regarding the starting of new add-on courses for the skill development among the students has been discussed in the meeting. Few add-on courses are suggested by the honorable members. A decision has been taken to suggest developing an "Entrepreneurial Skill Center." A decision has also be taken to name this center as "Sansthamata Sushiladevi Salunkhe Entrepreneurial and Skill Development Center." A decision has been taken to suggest subject wise add-on courses for the academic year 2018-19.

The issue has been raised by Shri. Avinash Dinkarrao Patil The issue has been supported by Dr. Mansing Jadhav

Outcome - Few Courses have started successfully.

2. The issue regarding the purchase of new subject wise quality books for the library has been discussed. It has been decided to suggest purchasing new quality reference, text books and journals required for the upcoming academic year. The IQAC members have suggested purchasing the books of around Rs. 1, 00,000/- under library budget.

The issue has been raised by Prin. Dr. S. Y. Hongekar The issue has been supported byShri. K. S. Patil

Outcome - Quality books of prescribed budget were purchased.

The student strength of the college is day by day increasing. There is a possibility of increase in the student strength in the

Upcoming year also. The increased student strength needs additional infrastructure. The IQAC committee is suggesting the college administration to complete the construction of new building as early as possible.

The issue has been raised by Shri. Dilip Joglekar The issue has been supported by Shri. M. D. Patil

Outcome - The construction of building is on the way of construction.

4. The IQAC committee has been suggesting preparing the detail departmental profile from each department. The profile will consist all the details of the departmental activities. The IQAC has suggested a format of departmental profile.

The issue has been raised by Dr. N. A. Kulkarni

The issue has been supported by Shri. M. B. Kadam

Outcome - All the departments have successfully prepared the departmental profiles.

The faculty of the college is always publishing their quality research in reputed journals. The IQAC has suggested to publish the research papers in UGC listed ISSN and ISBN research journals.

The issue has been raised by Dr. J. S. Ghodake The issue has been supported by Shri. A. B. Kamble

Outcome - 39 papers were published in reputed journals.

6. The IQAC committee has discussed an issue of organization of the seminar and conferences. Now a day the funding agencies are not happy to give the funds for organization of the seminar and conferences. The IQAC committee has suggested organizing self-funded National and International conferences on the occasion of the birth centenary year of Dr. Bapuji Salunkhe.

The issue has been raised by Prin. R. R. Kumbhar The issue has been supported by Shri. Dilip Joglekar

Outcome - An International Conference was successfully organized.

7. An issue of performance of the students in university examinations has been discussed in the meeting. Discussion has been made to develop educational atmosphere in the college campus. IQAC has suggested to develop a healthy and favorable academic atmosphere by providing maximum facilities for the students to achieve the positions in university merit list in upcoming academic year 2018-19.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome – Consecutive second time the college has got the award of "Highest merit scholarships in rural category."

 An issue of undertaking various extension activities through NCC and NSS has been discussed in the meeting. The members have suggested to NSS and NCC to undertake the activities which will be helpful to the society.

The issue has been raised by Prin. Dr. S. Y. Hongekar The issue has been supported by Shri. K. S. Patil

Outcome - Various extension activities were successfully conducted.

9. The IQAC members have suggested arranging some guest lectures on the occasion of the birth centenary year of Dr. Bapuji Salunkhe. The issue has been raised by Shri. A. B. Kamble The issue has been supported by Dr. J. S. Ghodake

Outcome – Various guest lecturers were arranged on the occasion of the birth centenary year of Dr. Bapuji Salunkhe.

10.An issue of organizing upcoming 'International Yoga Day' in the college has been discussed in the meeting. The members have suggested arranging the yoga for the faculty and to the students. It is suggested that the NSS and NCC students to undertake the yoga publically. The issue has been raised by Shri. M. B. Kadam

The issue has been supported by Dr. N. A. Kulkarni

Outcome - The day has been celebrated widely.

| Sr. No. | Name | Designation | Signature |
|---------|-----------------------------|---------------------------|-----------|
| 1 | Dr.R.R.Kumbhar | Chairman | pau |
| 2 | Dr. V. Y. Pawar | Teacher | Auns |
| 3 | Mr. K. S. Patil | Teacher | Alah |
| 4 | Mr. M. D. Patil | Teacher | mar |
| 5 | Dr. J. S. Ghodake | Teacher | An |
| 6 | Dr. B. T. Kanase | Teacher | pore |
| 7 | Dr.S.Y.Hongekar | Management Representative | - |
| 8 | Mr. M.B.Kadam | Administrative Officer | manda |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | en ant |
| 10 | Mr. Dilip Joglekar | Industrialist | Jadulus |
| 11 | Dr. Mansing Jadhav | Stakeholder | ation |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Fatt |
| 13 | Mr. A.B.Kamble | Alumni | Kumbs |
| 14 | Dr.N.A.Kulkarni | Coordinator | Stulke |

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(Dr. N. A. Kulkarni) IQAC Co-Ordinator, PD VP Mahavidyalaya, Tasgaon.



(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.)



Ref. No .: PDVPMT/

Date :

| Sr. No. | Plan of Action | Action Taken | | |
|---------|---|--|--|--|
| | First Meeting on 13/07/2018 | | | |
| 1 | Review of minutes of previous IQAC | The minutes of the previous meeting are | | |
| | Meeting | approved by the Council. | | |
| 2 | Felicitation of meritorious students | Felicitation function was successfully | | |
| | | organized on 06/09/2018 | | |
| 3 | Motivation to students in sports activities | Students have participated in State, | | |
| | | University and Local sports Competition | | |
| | | and Annual Sports Competition | | |
| 4 | Discussion and Preparation of AQAR of | The AQAR of 2017-18 has been prepared | | |
| | 2017-18 | and sent to NAAC office in time. | | |
| 5 | Discussion on placement activities for | Organized Campus interview of R-Tech | | |
| | students | Medicare Systems on 07/09/2018 | | |
| | | Organized One Day Workshop on Next | | |
| | | Step- Career Guidance Program on | | |
| | | 25/01/2019 | | |
| 6 | Discussion on competitive Examination | Organized One Day Workshop in | | |
| | Guidance for students | Collaboration with Unique Academy, Pune | | |
| 7 | Participation of students in cultural | Students Participated in Shivaji University, | | |
| | activities | Kolhapur Youth Festival activities in | | |
| | | District level and Zonal level | | |
| 8 | To organize Women Empowerment and | Awareness Programs related to role and | | |
| | Internal Complain Committee programs. | functions of these committees for Entry | | |
| | | level students | | |
| | | On day Workshop on role and function of | | |

| | | Baby Girl | |
|----|--|--|--|
| 9 | Planning for CIE | Class Test, Surprise test, open Book test, | |
| | | seminars and Group discussions were | |
| | | conducted throughout the year randomly. | |
| 10 | Organization of Eminent Guest lectures | 1. Guest lecture on Surgical Strike by Col | |
| | | PPS. Dhaliwal | |
| | | 2. Business and Management Skill by Mrs | |
| | | Vaishali Suryawanshi on 09/09/2018 | |
| | | 3. National Consumer day celebrated by | |
| | | Deepak Vajale, Tahasildar, Tasgon | |
| | | 4. Career opportunities I Commerce by Dr | |
| | | Avinash Shirsat and Shri Pardeshi A.S. | |
| | | 5. Enterpreunrship skills by Dr. Uday | |
| | | Lokhande | |
| | | 6. Role of NGOs in Biodiversity | |
| | | Conservation by Shri Raman Kulkarni | |
| | | Wild Life Warden, Klhapur | |
| 11 | Organization of student centric activities | Workshop on Film Creation by Dept. o | |
| | under Lead College Scheme of Shivaji | Marathi on 18/09/2018 | |
| | University | Enterpreunrship development by Dept. | |
| | | Commerce on 17/01/2019 | |
| | | Vasantavishkar Compilation on 19 and | |
| | | 20/12/2018 | |
| | | Workshop on Vermicomposting and | |
| | | Biotechnology by Dept. of Zoology of | |
| | | 27/12/2018 | |
| | | Workshop on Competitive Exam Guidance | |
| | | on 23/01/2019 | |
| | | Experimental skill in Physics or | |
| | | 30/01/2019 | |
| | | Workshop on Soft Skills and Personality | |
| | | Development by Dept. of English or | |
| | | 06/02/2019 | |
| 12 | Organization of workshop on media and | Workshop on media and film making was | |
| | film making | organized on 18/09/2018 by Department of | |

| | | Marathi |
|----|---|--|
| 13 | Discussion on to organize Alumni Meet | Alumni Meet was organized on 10/11/2018 |
| | | by Department of Chemistry |
| 14 | To purchase computers and Equipments | Computers and Equipments were purchased |
| | | on demand of the various departments |
| | Second Meeting on | 13/10/2018 |
| 15 | Review of minutes of 1 st IQAC Meeting | The minutes of the meeting held on |
| | | 13/07/2018 were approved by the Council. |
| | | |
| 16 | Organization of Study Tours | Study Tours were organized by Marathi, |
| | | History Economics Commerce Physics, |
| | | Chemistry, Botany and Zoology as per the |
| | | syllabus. |
| 17 | Organization of Vasantavishkar Poster | Vasantavishkar Compilation on 19 and |
| | Competition . | 20/12/2018 and 214 students have |
| | | participated along with their poster. |
| 18 | Organization of Vivekanand Saptah | Celebration of Vivekananda Saptah is |
| | (Week) | tradition of our mother institution. In this |
| | | academic year our IQAC planed and |
| | | successfully organized various activities and |
| | | competitions during 12 th January to 19 th |
| | | January to inculcate student's art and skills. |
| 19 | Analysis of University Result of First | University Result of First semester was |
| | semester. | analyzed by each department and |
| | | counseling of the students was done to |
| | | achieve the rank in the next semester Exam. |
| | Third Meeting on | 13/01/2019 |
| 20 | Review of minutes of 2 nd IQAC Meeting | The minutes of the meeting held on |
| | | 13/10/2018 are approved by the Council. |
| 21 | To organize Annual sports day and | Annual sports competitions on various |
| | competition. | sports events were organized during 12 th |
| | | January to 19 th January 2019. |
| 22 | To organize Addiction free student's mind | Anti Tobacco Campaign Poster Competition |
| | | was organized on $\frac{24}{01}$ |

| 23 | To organize workshops on various themes | 1.Workshop on Competitive Exam | | |
|----|---|--|--|--|
| | in remain time of the academic year. | Guidance on 23/01/2019 | | |
| | | 2.Experimental skill in Physics on | | |
| | | 30/01/2019 | | |
| | | 3.Workshop on Soft Skills and Personality | | |
| | | Development by Dept. of English on | | |
| | | 06/02/2019 | | |
| 24 | To organize awareness program among | An Awareness program, EVM machine | | |
| | the new voters | function among the new voters was | | |
| | | arranged by Dept. of Sociology on | | |
| | | 25/01/2019 | | |
| 25 | To organize Field survey | Department of Geography has organized | | |
| | | Village survey at Chikhalgothan on | | |
| | | 02/02/2019 | | |
| 26 | Discussion on organization of self funded | 1. International Conference on Integrative | | |
| | National and International conference on | Approach in Environmental and Applied | | |
| | the occasion of Birth Centenary of Dr. | Sciences on 8 th and 9 th February 2019. | | |
| | Bapuji Salunkhe | 2. Two day National Conference on | | |
| | | Scientific and Technical Terminology in | | |
| | | Environmental science, Zoology and | | |
| | | Biology on 7-8/03/2019 | | |
| 35 | To organize extension activities through | Blood Donation camp 12/06/2018 | | |
| | NCC and NSS | Cleaning City camp 15/09/2018 | | |
| | | Workshop on Water Conservation | | |
| | | 24/01/2019 | | |
| | | Swachha Bharat Abhiyan 02/10/2018 | | |
| | | Were organized by NSS | | |
| 36 | To organize Convocation Ceremony | As per the guideline of Shivaji University, | | |
| | (Graduate Day) | Graduation day was celebrated on | | |
| 37 | Distribution of Government Scholarship | As per the Rules of Government, | | |
| | to the student. | Scholarship is deposited to the respective | | |
| | | student's bank account. | | |
| | Fourth Meeting on | 13/04/2019 | | |
| 38 | Review of minutes of 3 rd IOAC Meeting | The minutes of the meeting held on | | |
| | | The minutes of the meeting field of | | |

| | | 13/01/2019 are approved by the Council. |
|----|--|---|
| 39 | Discussion on to establish Entrepreneurial | Sansthamataa Sushiladevi Salunkhe |
| | Skill Development Centre | Entrepreneurship and Skill Development |
| | | Center has been established and courses |
| | | have started through this centre. |
| 40 | To purchase quality and career guidance | Quality and career guidance books of |
| | books | prescribed budget were purchased |
| 41 | To strengthen the research in Faculty | 39 research papers were published in |
| | members | reputed research journals. |

lonni (Dr. N. A. Kulkarni) IQAC Co-Ordinator, PD VP Mahavidyalaya, Tasgaon.



(Dr. R. R. Kumbhar)

Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) "ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणपहवीं डॉ. बापूनी साळुंखे Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist- Sangli

Date:- 08/07/2017

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 09/07/2017 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Purchase of quality books.

2. Development of additional infrastructure.

4. Preparation of Departmental Profile.

5. Quality publications by faculty.

6. Organization of seminar and conferences.

7. Performance of students in university examinations.

8. NSS, NCC and YOGA activities.

| Sr. No. | Name | Designation | Signature |
|------------|-------------------|-------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | X |
| 2 | Dr. V. Y. Pawar | Teacher | 5. Sumo |
| 3 | Mr. K. S. Patil | Teacher | Revin |
| 4 | Mr. M. D. Patil | Teacher | Tadi |
| 5 | Dr. J. S. Ghodake | Teacher | Atr |
| 6 | Dr. B. T. Kanase | Teacher 💉 | Bas |
| 7 | Dr.S.Y. Hongekar | Management Representative | Hong |
|----|-----------------------------|---------------------------|----------|
| 8 | Mr. M. B. Kadam | Administrative Officer | Moude |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | - |
| 10 | Mr. Dilip Joglekar | Industrialist | 100sters |
| 11 | Dr. Mansing Jadhav | Stakeholder | Alexan |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Fautil |
| 13 | Mr. A. B. Kamble | Alumni | Kamer |
| 14 | Dr.N. A. Kulkarni | Coordinator | stuten |

atui (Dr. N. A. Kulkarni) IQAC Co-Ordinator, PDVP Mahavidyalaya. Tasgaon.

(Dr. R. R. Kumbhar) For Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

Minutes of IQAC Meeting

The minutes of the meeting are given bellow.

 The issue regarding the starting of new add-on courses for the skill development among the students has been discussed in the meeting. Few add-on courses are suggested by the honorable members.

The issue has been raised by Dr. Mansing Jadhav

The issue has been supported by Shri. Avinash Dinkarrao Patil

Outcome - Few Courses have started successfully.

The issue regarding the purchase of new subject wise quality books for the library has been discussed. It has been decided to suggest purchasing new quality reference, text books and journals required for the upcoming academic year. The IQAC members have suggested purchasing the books of around Rs. 100, 000/- under library budget.

The issue has been raised by Shri. K. S. Patil

The issue has been supported by Prin. Dr. S. Y. Hongekar

Outcome - Quality books of prescribed budget were purchased.

The student strength of the college is day by day increasing. There is a possibility of increase in the student strength in the

Upcoming year also. The increased student strength needs additional infrastructure. The IQAC committee is suggesting the college administration to complete the construction of new building as early as possible.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome - The construction of building is on the way of construction.

4. The IQAC committee has been suggesting preparing the detail departmental profile from each department. The profile will consist all the details of the departmental activities. The IQAC has suggested a format of departmental profile.

The issue has been raised by Dr. N. A. Kulkarni

The issue has been supported by Shri. M. B. Kadam

Outcome – All the departments have successfully prepared the departmental profiles.

 The faculty of the college is always publishing their quality research in reputed journals. The IQAC has suggested to publish the research papers in UGC listed ISSN and ISBN research journals.

The issue has been raised by Dr. J. S. Ghodake

The issue has been supported by Shri. A. B. Kamble

Outcome - Many papers were published in reputed journals.

6. The IQAC committee has discussed an issue of organization of the seminar and conferences. Now a day the funding agencies are not happy to give the funds for organization of the seminar and conferences. The issue has been raised by Prin. R. R. Kumbhar

The issue has been supported by Shri. Dilip Joglekar

Outcome - Some seminars are organized.

7. An issue of performance of the students in university examinations has been discussed in the meeting. Discussion has been made to develop educational atmosphere in the college campus. IQAC has suggested to develop a healthy and favorable academic atmosphere by providing maximum facilities for the students to achieve the positions in university merit list in upcoming academic year.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome - Fruitful Suggestions were made.

8. An issue of undertaking various extension activities through NCC and NSS has been discussed in the meeting. The members have suggested to NSS and NCC to undertake the activities which will be helpful to the society.

The issue has been raised by Prin. Dr. S. Y. Hongekar

The issue has been supported by Shri. K. S. Patil

Outcome - Various extension activities were successfully conducted.

The IQAC members have suggested arranging some guest lectures.

The issue has been raised by Shri. A. B. Kamble

The issue has been supported by Dr. J. S. Ghodake

Outcome - Various guest lecturers were arranged.

10. An issue of organizing upcoming 'International Yoga Day' in the college has been discussed in the meeting. The members have suggested arranging the yoga for the faculty and to the students. It is suggested that the NSS and NCC students to undertake the yoga publically.

The issue has been raised by Shri. M. B. Kadam

The issue has been supported by Dr. N. A. Kulkarni

Outcome - The day has been celebrated widely.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|-----------|
| 1 | Dr.R.R.Kumbhar | Chairman | ¥. |
| 2 | Dr. V. Y. Pawar | Teacher | Quinnah |
| 3 | Mr. K. S. Patil | Teacher | BRitin |
| 4 | Mr. M. D. Patil | Teacher | Mai |
| 5 | Dr. J. S. Ghodake | Teacher | En |
| 6 | Dr. B. T. Kanase | Teacher | Bare |
| 7 | Dr.S.Y.Hongekar | Management Representative | Hong |
| 8 | Mr. M.B.Kadam | Administrative Officer | mand |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | - |
| 10 | Mr. Dilip Joglekar | Industrialist | 14holas |
| 11 | Dr. Mansing Jadhav | Stakeholder | Havanc |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Satil |
| 13 | Mr. A.B.Kamble | Alumni | Komby |

Juliani Dr.N.A.Kulkarni 14 Coordinator Ani

(Dr. N. A. Kulkarni) IQAC Co-Ordinator, PD.V.P. Manavidyalaya, Tasgaon.

(Dr. R. R. Kumbhar) Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. बापूञी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Dist- Sangli

Date:-24/12/2017

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 25/12/2017 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Felicitation of meritorious students.

2. Sports activities.

3. Preparation of AQAR of 2017-18.

4. Placements of the students.

5. Competitive examinations.

6. Participation of students in cultural activities and women empowerment program.

7. Internal Exams and Lead College Programs.

| Sr. No. | , Name | Designation | Signature |
|------------|-------------------|-------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | X |
| 2 | Dr. V. Y. Pawar | Teacher | (anna |
| 3 | Mr. K. S. Patil | Teacher | (BAU) |
| 4 | Mr. M. D. Patil | Teacher | Mai |
| 5 | Dr. J. S. Ghodake | Teacher | Are |
| 6 | Dr. B. T. Kanase | Teacher | Bal |

| 7 | Dr.S.Y.Hongekar | Management Representative | Hong |
|----|-----------------------------|---------------------------|----------|
| 8 | Mr. M.B.Kadam | Administrative Officer | mana |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | - |
| 10 | Mr. Dilip Joglekar | Industrialist | 1 gables |
| 11 | Dr. Mansing Jadhav | Stakeholder | Now |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Soutif |
| 13 | Mr. A.B.Kamble | Alumni | Kambils |
| 14 | Dr.N.A.Kulkarni | Coordinator | Multer |

Inni (Dr. N. A. Kulkarni) IQAC Co-Ordinator, PDVP Mahavidyalaya. Tasgaon.

umbhar) Mahavidyalaya, Tasgaon. (Sangli)

Minutes of IQAC Meeting

The minutes of the meeting are given bellow.

 The students of the college are continuously excelled in various university exams and other activities in the preceding year. It is necessary to motivate them by felicitating them publically. The IQAC members have suggesting organizing a separate felicitation function of these merit holder students of the last semester.

The issue has been raised by Shri. K. S. Patil

The issue has been supported by Shri.A. B. Kamble

Outcome – A separate felicitation function of merit holder students of the last semester was successfully organized. The issue regarding the participation of students in various sports activities has been discussed. It has been decided to suggest motivating the students for the participation in various sports activities.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Dr.Mansing Jadhav

Outcome – Many of the students have participated in various sports activities and performed satisfactorily.

3. An issue of preparing and sending the AQAR of 2017-18 to NAAC Bangalore before the valid period has been raised in the meeting. The IQAC committee is suggesting the IQAC Coordinator and Principal of the College to prepare and send the AQAR of 2017-18 to NAAC Bangalore before valid period.

The issue has been raised by Prin. Dr. S Y .Hongekar

The issue has been supported by Shri. Avinash Kaka Patil

Outcome – The AQAR of 2017-18 has been prepared and sent to NAAC Bangalore before due period.

4. An issue of on campus and off campus placements of the students has been raised in the meeting. The IQAC committee has been suggesting to the placement cell of the college to contact more companies and invite them in the college for the placements of more and more students of the college.

The issue has been raised by Dr. Mansing Jadhav

The issue has been supported by Shri. M. B. Kadam

Outcome – Number of students have got the placements in on campus and off campus placement camps. The report is with placement cell department

5. An issue regarding the students' performance and coaching for competitive examinations has been raised in the meeting. The IQAC has suggested to conduct the guest lectures of experienced persons in the field should be arranged and some workshops should be organized for the students. The IQAC committee has suggested conducting some mock competitive tests for the students.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. K. S. Patil

Outcome - The guest lecturers of experienced persons were arranged.

6. The IQAC committee has discussed an issue of participation of students in various cultural, essays, elocution and debating competition has been discussed in the meeting. The IQAC committee has suggested to motivate the students for participation in various cultural, essay, elocution and debating competition.

The issue has been raised by Shri. A. B. Kamble

The issue has been supported by Dr. J. S. Ghodake

Outcome - Number of students were participated in various cultural, essay, elocution and debating competition.

7. An issue of internal complaints and women empowerment programs for the girl students of the college has been raised in the meeting. The IQAC has suggested to organize the supportive programs on internal complaints and women empowerment for girl students

The issue has been raised by Shri. M. D. Patil

The issue has been supported by Dr. N. A. Kulkarni

Outcome – Various programs of internal complaints and women empowerment programs for the girl students has been organized.

8. An issue of Continuous Internal Evaluation (CIE) with respect to NAAC guidelines has been discussed in the meeting. The committee members have suggested for conducting various tests like class tests, open book tests,

surprise tests, seminars and group discussions for the improvement of the students' performance in the university examinations.

The issue has been raised by Prin. Dr. S. Y. Hongekar

The issue has been supported by Dr. Mansing Jadhav

Outcome – Various tests like class tests, open book tests, surprise tests, seminars and group discussions for the improvement of the students' performance in the university examinations were conducted during the period.

 The IQAC members have suggested arranging some guest lectures of some eminent speakers in the upcoming academic year. The issue has been raised by Shri. K. S. Patil

The issue has been supported by Shri. Dilip Joglekar

Outcome - Some guest lecturers of eminent speakers' sere arranged.

10. Functioning of Lead College Scheme in the college has been discussed in the meeting. The IQAC members have decided to suggest the lead college committee to undertake maximum student central activities under this scheme.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome – Number of student central activities under Lead College scheme were arranged.

11.An issue of role of media and film making in the society has been considerably increasing day by day. The committee thinks that the students of the college should know the techniques in media and film making. Keeping in mind the committee has decided to suggest to conduct some special workshops on media and film making.

The issue has been raised by Shri. Avinash Kaka Patil

The issue has been supported by Shri. A. B. Kamble

Outcome -A special workshop on media and film making has been arranged.

12. An issue of organizing departmental alumni meet has been raised by some members. The committee thinks that the alumni students of the college should invited and motivate them to participate in various college activities. Keeping in mind the committee has decided to suggest departments to conduct the alumni meet of their department.

The issue has been raised by Prin. Dr. R. R. Kumbhar

The issue has been supported by Shri. M. B. Kadam

Outcome - Some departments has conducted the alumni meet.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|------------|
| 1 | Dr. R. R. Kumbhar | Chairman | X |
| 2 | Dr. V. Y. Pawar | Teacher | Commission |
| 3 | Mr. K. S. Patil | Teacher | (13 Ret |
| 4 | Mr. M. D. Patil | Teacher | adi |
| 5 | Dr. J. S. Ghodake | Teacher | (Jr |
| 6 | Dr. B. T. Kanase | Teacher | Bare |
| 7 | Dr.S.Y.Hongekar | Management Representative | Hong |
| 8 | Mr. M.B.Kadam | Administrative Officer | maria |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | _ |
| | | | |

| 10 | Mr. Dilip Joglekar | Industrialist | 1 april 28 |
|----|-----------------------------|---------------|------------|
| 11 | Dr. Mansing Jadhav | Stakeholder | Arton |
| 12 | Miss. Sanyjuja Suresh Patil | Student | South! |
| 13 | Mr. A. B. Kamble | Alumni | Kan 518 |
| 14 | Dr. N. A. Kulkarni | Coordinator | Multim |

allahi

(Dr. R. R. Kumbhar) Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) • "ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. बापूनी साळुंखे Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Dist-Sangli

Date:-18/03/2018

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 19/03/2018 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Conduct of study tours.

2. Organization of 'VASANTAVISHKAR' Poster competition.

3. Analysis of university results.

| Sr. No. | Name | Designation | Signature |
|------------|--------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | ¥. |
| 2 | Dr. V. Y. Pawar | Teacher | annus- |
| 3 | Mr. K. S. Patil | Teacher | Bluin |
| 1 | Mr. M. D. Patil | Teacher | Mai |
| 5 | Dr. J. S. Ghodake | Teacher | An |
| 5 | Dr. B. T. Kanase | Teacher | Bal |
| 1 | Dr. S. Y. Hongekar | Management Representative | Hong . |

| Mr. M. B. Kadam | Administrative Officer | maria |
|-----------------------------|---|--|
| Mr. Avinash Dinkarrao Patil | Member of Local Society | - |
| Mr. Dilip Joglekar | Industrialist | 1 chobas |
| Dr. Mansing Jadhav | Stakeholder | Now |
| Miss. Sanyjuja Suresh Patil | Student | Satil |
| Mr. A. B. Kamble | Alumni | Kunhild |
| Dr. N. A. Kulkarni | Coordinator | Nulley |
| | Mr. M. B. Kadam Mr. Avinash Dinkarrao Patil Mr. Dilip Joglekar Dr. Mansing Jadhav Miss. Sanyjuja Suresh Patil Mr. A. B. Kamble Dr. N. A. Kulkarni | Mr. M. B. KadamAdministrative OfficerMr. Avinash Dinkarrao PatilMember of Local SocietyMr. Dilip JoglekarIndustrialistDr. Mansing JadhavStakeholderMiss. Sanyjuja Suresh PatilStudentNr. A. B. KambleAlumniDr. N. A. KulkarniCoordinator |

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PDVP Manavidyalaya,

Tasgaon.

Minutes of IQAC Meeting

(Dr.R.R.Kumbhar) Principal Imabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

The minutes of the meeting are given bellow.

 The issue of felicitation of merit holder students has risen by some members to motivate the other students. A decision has been taken to arrange a lecture of an eminent speaker on the occasion.

The issue has been raised by Shri. A. B. Kamble

The issue has been supported by Dr. J. S. Ghodake

Outcome - A program of felicitation of merit holder students has been arranged.

 An issue of organizing study tours by various departments has been raised by some members. A decision has been taken to organize the study tours to the places of educational interest and the travelling should be carried out through RTO permitted vehicles.

The issue has been raised by Shri. K. S. Patil

The issue has been supported by Shri. M. D. Patil

Outcome - Various departments have organized study tours at various places of their subject interest.

3. Creating research atmosphere among the students is a key issue in higher educational institutes. An issue of organizing research oriented poster competition has been raised by some members. It has been decided to organize an annual research oriented 'Vasantavishkar' poster competition in the December. A decision has also been taken to send more and more quality posters to the district level 'Avishkar' poster competition organized by Shivaji University, Kolhapur.

The issue has been raised by Dr. B. T. Kanase

The issue has been supported by Dr. J. S. Ghodke

Outcome – An annual research oriented 'Vasantavishkar' poster competition has been arranged in the last week of December.

 An issue of organizing research oriented poster competition at district level has been raised by some members.

The issue has been raised by Dilip Joglekar

The issue has been supported by Dr. Mansing Jadhav

Outcome - The poster competition has been organized.

5. The decision has been taken to organize various competitions during the to give the students a chance to show their art and skills. Suggestion has been given to organize rangoli, essay, and elocution competition for the students.

The issue has been raised by Prin. Dr. R. R. Kumbhar

The issue has been supported by Avinash Kaka Patil

.

Outcome – An annual 'Vivekananda Saptah' has been arranged in a systematic manner. Various competitions like rangoli, essay, elocution

competition has been organized during the week to give the students a chance to show their art and skills.

6. An issue of performance of the students in the first semester in university examinations has been discussed in the meeting. Discussion has been made to analyze the results and take the steps to improve the results.

The issue has been raised by Dr. J. S. Ghodake

The issue has been supported by Shri. A. B. Kamble

Outcome - Performance of the students in the first semester in university examinations has been discussed in the meeting.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|-----------|
| 1 | Dr.R.R.Kumbhar | Chairman | ¥. |
| 2 | Dr. V. Y. Pawar | Teacher | 6 minus |
| 3 | Mr. K. S. Patil | Teacher | BROOM |
| 4 | Mr. M. D. Patil | Teacher | Mai |
| 5 | Dr. J. S. Ghodake | Teacher | Sta- |
| 6 | Dr. B. T. Kanase | Teacher | Pars |
| 7 | Dr.S.Y.Hongekar | Management Representative | Hong |
| 3 | Mr. M.B.Kadam | Administrative Officer | Menno |
|) | Mr. Avinash Dinkarrao Patil | Member of Local Society | _ |
| 10 | Mr. Dilip Joglekar | Industrialist | idales |
| 11 | Dr. Mansing Jadhav | Stakeholder | Vens |

| 12 | Miss. Sanyjuja Suresh Patil | Student | Sottil |
|----|-----------------------------|-------------|----------|
| 13 | Mr. A.B.Kamble | Alumni | Kaumb 18 |
| 14 | Dr.N.A.Kulkarni | Coordinator | Multahi |

(Dr. N.A. Kulkarni)

(Dr. N.M. Kulkarni) IQAC Co-Ordinator, PD VP Manavidyalaya, Tasgaon. (Dr. R. R. Kumbhar) Principal dmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)



Ref. No.: PDVPMT/

Date :

ACTION TAKEN REPORT (IQAC) 2017-18)

| Sr. No. | Plan of Action | Action Taken |
|---------|---|---|
| | First Meeting on (| 09/07/2017 |
| 1 | Review of minutes of previous IQAC | The minutes of the previous meeting are |
| | Meeting | approved by the Council. |
| 2 | To Start new add on Courses | Few Courses were added successfully |
| 3 | Purchase of Quality Books in Library | Quality Books in prescribed Budget were |
| | | purchased |
| 4 | Discussion on construction of new | The New building construction was on the |
| | building to face the increasing student | way to complete. |
| | strength | |
| 5 | Preparation of detailed Departmental | All departments prepared detailed |
| | Profile from each department. | Departmental Profiles successfully. |
| 6 | Discussion to motivate faculty to publish | Many quality research papers were |
| | quality research papers. | published successfully. |
| 7 | To develop healthy and academic | Fruitful suggestions were made to achieve |
| | atmosphere by providing maximum | the goal. |
| | facilities to students to encourage merit | |
| | based performance in University | |
| | Examination | |
| 8 | To conduct various extension activities | Various extension activities through NCC, |
| | through NCC, NSS and various | NSS were successfully conducted. |
| | departments. | |

| 9 | To conduct various Guest lectures and | History, Physics, Chemistry and NCC and |
|----|---|---|
| | career counseling activities. | Placement Cell have organized Guest |
| | | lectures and career counseling lectures and |
| | | benefited to students by placement in |
| | | defence services. |
| | Second Meeting or | 25/12/2017 |
| 10 | Review of minutes of 1 st IQAC Meeting | The minutes of the meeting held on 09/07/2017 were approved by the Council. |
| 11 | Organization of Felicitation program for | Felicitation program for meritorious |
| | meritorious students and motivation to | students and motivation to remaining |
| | remaining students | students was successfully organized in |
| | | second term of academic year. |
| 12 | Discussion to motivate students' | Many of the students participated in sports |
| | participation in sports activities. | activities and performed satisfactorily. |
| 13 | Discussion and Preparation of AOAR of | The AOAR of 2016-17 prepared and sent to |
| 10 | 2016-17 | NAAC office in time. |
| 14 | Discussion to conduct On campus | Numbers of students have got placement in |
| | placement activities. | on campus and off campus placement |
| | | camps. |
| 15 | To conduct various Guest lecturers of | Competitive Exam Cell has organized Guest |
| | experienced persons for competitive | lecturers of experienced persons for |
| | examination guidance. | competitive examination guidance. |
| 16 | Discussion to motivate students' | Many of the students participated in in |
| | participation in cultural, essay, elocution, | cultural, essay, elocution, Debate activities. |
| | Debate activities. | and performed satisfactorily. |
| 17 | Review of CIE activities of each | Every department has conducted CIE |
| | department to improve the student in | activities to improve the student in |
| | University Exam. | University Exam. |
| 18 | Review of Function of Lead College | Number of Student Centric activities |
| | Scheme of Shivaji University, Kolhapur | organized under Lead College Scheme of |
| | | Shivaji University, Kolhapur |
| | | |

| | Third Meeting on | 19/03/2018 |
|----|---|--|
| 19 | Review of minutes of 2 nd IQAC Meeting | The minutes of the meeting held on 25/12/2017 are approved by the Council. |
| 20 | To organize Annual sports day and competition. | Annual sports competitions on various sports events were organized during 12 th January to 19 th January 2019. |
| 21 | Organization of Vasantavishkar Poster Competition. | Vasantavishkar Compilation on 21/12/2017, 67 research posters and 201 students have participated along with their poster. |
| 22 | Organization of Vivekanand Saptah (Week) | Celebration of Vivekananda Saptah is tradition of our mother institution. In this academic year our IQAC planed and successfully organized various activities and competitions during 12 th January to 19 th January to inculcate student's art and skills. |
| 23 | Analysis of University Result of First semester. | University Result of First semester was analyzed by each department and counseling of the students was done to achieve the rank in the next semester Exam. |

ullani (Dr. N. A. Kulkarni) IQAC Co-Ordinator, PDVP Mahavidyalaya, Tasgaon



(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahawdyalaya, Tasgaon, (Sangli) "ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Dist-Sangli

Date:- 06/07/2016

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 07/07/2016 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Development of Skill Development Center.

2. Purchase of quality books.

3. Development of additional infrastructure.

4. Preparation of Departmental Profile.

5. Quality publications by faculty.

6. Organization of seminar and conferences.

7. Performance of students in university examinations.

8. NSS, NCC and YOGA activities.

 To present and approve "Institute Perspective Plan" for the Year 2016-17 to 2020-21.

| Sr. No. | Name | Designation | Signature |
|------------|-------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | Par_ |
| 2 | Dr. V. Y. Pawar | Teacher | Alt |
| 3 | Mr. K. S. Patil | Teacher | Bat |
| 4 | Mr. M. D. Patil | Teacher | Mai- |
| 5 | Dr. J. S. Ghodake | Teacher | Ar. |
| 6 | Dr. B. T. Kanase | Teacher | Reduce |
| 7 | Dr.S.Y. Hongekar | Management Representative | Harr |
| 8 | Mr. M. B. Kadam | Administrative Officer | manda |

| Mr. Avinash Dinkarrao Patil | Member of Local Society | 7.0 |
|-----------------------------|---|--|
| Mr. Dilip Joglekar | Industrialist | [a].l |
| Dr. Mansing Jadhav | Stakeholder | Afren |
| Miss. Sanyjuja Suresh Patil | Student | Satil |
| Mr. A. B. Kamble | Alumni | Konbill |
| Dr.N. A. Kulkarni | Coordinator | Multo |
| | Mr. Avinash Dinkarrao Patil Mr. Dilip Joglekar Dr. Mansing Jadhav Miss. Sanyjuja Suresh Patil Mr. A. B. Kamble Dr.N. A. Kulkarni | Mr. Avinash Dinkarrao PatilMember of Local SocietyMr. Dilip JoglekarIndustrialistDr. Mansing JadhavStakeholderMiss. Sanyjuja Suresh PatilStudentMr. A. B. KambleAlumniDr.N. A. KulkarniCoordinator |

(Dr. N. A. Kulkarni) IQAC Co-Ordinator, PDVP Mahavidvalava.

Tasgaon.



eu (Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patli Mahavidyalaya, Tasgaon. (Sangli)

Minutes of IQAC Meeting

The minutes of the meeting are given bellow.

 The issue regarding the starting of new add-on courses for the skill development among the students has been discussed in the meeting. Few add-on courses are suggested by the honorable members. A decision has been taken to suggest developing an "Entrepreneurial Skill Center." A decision has been taken to suggest subject wise add-on courses for the academic year 2016-17.

The issue has been raised by Dr. Mansing Jadhav

The issue has been supported by Shri. Avinash Dinkarrao Patil Outcome – Few Courses have started successfully.

2. The issue regarding the purchase of new subject wise quality books for the library has been discussed. It has been decided to suggest purchasing new quality reference, text books and journals required for the upcoming academic year. The IQAC members have suggested purchasing the books of around Rs. 50, 000/- under library budget.

The issue has been raised by Shri. K. S. Patil

The issue has been supported by Prin. Dr. S. Y. Hongekar

Outcome - Quality books of prescribed budget were purchased.

The student strength of the college is day by day increasing. There is a possibility of increase in the student strength in the

Upcoming year also. The increased student strength needs additional infrastructure. The IQAC committee is suggesting the college administration to complete the construction of new building as early as possible.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome - The construction of building is on the way of construction.

4. The IQAC committee has been suggesting preparing the detail departmental profile from each department. The profile will consist all the details of the departmental activities. The IQAC has suggested a format of departmental profile.

The issue has been raised by Dr. N. A. Kulkarni

The issue has been supported by Shri. M. B. Kadam

Outcome – All the departments have successfully prepared the departmental profiles.

The faculty of the college is always publishing their quality research in reputed journals. The IQAC has suggested to publish the research papers in UGC listed ISSN and ISBN research journals.

The issue has been raised by Dr. J. S. Ghodake

The issue has been supported by Shri. A. B. Kamble

Outcome - 39 papers were published in reputed journals.

6. The IQAC committee has discussed an issue of organization of the seminar and conferences. Now a day the funding agencies are not happy to give the funds for organization of the seminar and conferences.

The issue has been raised by Prin. R. R. Kumbhar

The issue has been supported by Shri. Dilip Joglekar

Outcome - Some seminars are organized.

An issue of performance of the students in university examinations has been discussed in the meeting. Discussion has been made to develop educational atmosphere in the college campus. IQAC has suggested to develop a healthy and favorable academic atmosphere by providing maximum facilities for the students to achieve the positions in university merit list in upcoming academic year.

The issue has been raised by Shri. Dilip Joglekar The issue has been supported by Shri. M. D. Patil Outcome – Fruitful Suggestions were made.

 An issue of undertaking various extension activities through NCC and NSS has been discussed in the meeting. The members have suggested to NSS and NCC to undertake the activities which will be helpful to the society.

The issue has been raised by Prin. Dr. S. Y. Hongekar The issue has been supported by Shri. K. S. Patil Outcome – Various extension activities were successfully conducted.

- The IQAC members have suggested arranging some guest lectures. The issue has been raised by Shri. A. B. Kamble The issue has been supported by Dr. J. S. Ghodake Outcome – Various guest lecturers were arranged.
- 9. An issue of organizing upcoming 'International Yoga Day' in the college has been discussed in the meeting. The members have suggested arranging the yoga for the faculty and to the students. It is suggested that the NSS and NCC students to undertake the yoga publically. The issue has been raised by Shri. M. B. Kadam The issue has been supported by Dr. N. A. Kulkarni Outcome – The day has been celebrated widely.
- The "Institute Perspective Plan" for the Year 2016-17 to 2020-21. Has been
 presented by the Principal and unanimously approved by all the IQAC
 members.

PERSPECTIVE PLAN 2016-17 TO 2020-21

The institution has a long-term planning for the growth and development that is reflected in its Perspective Plan. The Internal Quality Assurance Cell (IQAC) of the college takes initiatives in the preparation of the perspective plan. The Institutional head and IQAC considers the quality indicators of certain criteria determined by NAAC.

Also, the framework of plan is inclined towards the development of the institution that refers to the quality sustenance and quality enrichment. It intends to cover social, economic and spatial development. The following table focuses on the Institutional perspective plan for the next five years:

Curricular Aspects plan

- To introduce B.Voc programs.
- To elevate more U.G.programs in P.G.Programs.
- To introduce certificate courses in
 - Sericulture
 - Maintenance and management of cold storage.
 - Cyber security
 - Artificial Intellegence

Teaching and Learning Plan :

- Development of smart class rooms with state- of- art facilities.
- Use of more LCD and laptops in teaching and learning.
- Implementation of more experiential learning methods.
- Extensive use of online Teaching and Learning resources.
- More MoUs for faculty Exchange Programmes.

Research and Extension Plan :

- Educational linkages in terms of more MoU with premier institutions and take up collaborative research projects
- Promote participation of staff members in FDPs like refreshers and orientation programmes
- Promote inter-disciplinary research
- Introduce Research promotion scheme at institute level.
- Promotion of publication in indexed research journals
- · Promote faculty members to have at least one major/ minor project
- Conduct more National / International Level seminars / Conferences.
- Motivate faculty to apply for Patents.
- Promoteparticipation in International conferences/ seminars/workshops/symposium.
- To enhance research aptitude in students, organize a research fest" Vasant Avishkar"

Infrastructure and Learning resources augmentation Plan.

- Demolition of old science building and construction of new building for academic and research activities.
- Construction of new Annex building for academic and recreation activities.
- Strengthening IT infrastructure.
- · Complete automation of Library.
- Common Facility Centre (Common Instrumentation Centre.)

- Commerce Laboratory.
- · Construction of disabled friendly washrooms.
- More facilities forwomen. (Additional common rooms and toilet blocks, Separate vehicle parking area, women's park.
- Interactive language Laboratory.
- Seminar hall
- Recreation hall.

Community Engagement Plan:

- Conduct for more community service activities.
- More tie-ups with NGOs
- Adoption of more Villages for community services.
- Assist government and local bodies in Community projects
- Organize extension activities for Highschool students in nearby high schools.
- Organize awareness and training programs for farmers.

Human Resource planning and Development Plan:

- Organize more faculty development programmes
- Motivate faculty members for research work.
- Motivate and depute teachers to Orientation Courses and Refresher Courses.
- Promote Faculty exchange Programmes.
- Organization of training programs for administrative staff.
- Gender Audit.

Industry Interaction Plan:

- Invite Industry experts for motivating students and provide practical knowledge
- Strengthen Campus placement and training facility.
- Promote student to work on real projects for industries

Green initiatives

- Implement Soil to Silk project, mulberry cultivation and silkworm rearing
- Butterfly Garden for rearing Butterflies.
- Vermicompost Unit for solid waste management.
- Apiculture practice in campus for Honey Bee keeping.
- Medicinal plant Garden.
- Plant Nursery.
- Humic acid production plant.
- Hazardous chemical water treatment plant.
- Installation of L.E.D. lights.
- Green and energy audit.
 Best practices plan
 The institute shall undertake following best practices

1) Celebration of CULTURAL ART AND LITERARY FEST WEEK ON THE OCCASION OF SWAMI VIVEKANAND JAYANTI "Know Your Self, Know Your Country and Know Your Culture ".

2) Career guidance "CREATE YOUR PATH"

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|-----------|
| 1 | Dr.R.R.Kumbhar | Chairman | Pur |
| 2 | Dr. V. Y. Pawar | Teacher | ave |
| 3 | Mr. K. S. Patil | Teacher | statel |
| 4 | Mr. M. D. Patil | Teacher | Mor |
| 5 | Dr. J. S. Ghodake | Teacher | Cta |
| 6 | Dr. B. T. Kanase | Teacher | Blue |
| 7 | Dr.S.Y.Hongekar | Management Representative | Have |
| 8 | Mr. M.B.Kadam | Administrative Officer | merida |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | apr |
| 10 | Mr. Dilip Joglekar | Industrialist | 1 aus |
| 11 | Dr. Mansing Jadhav | Stakeholder | Algent |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Satil. |
| 13 | Mr. A.B.Kamble | Alumni | Vanille |
| 14 | Dr.N.A.Kulkarni | Coordinator | Multuni |

Ani (Dr. N. A. Kulkarni)

(Dr. N. A. Kulkarni) IQAC Co-Ordinator, PD VP Mahavidyalaya, Tasgaon.



(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodeds =--? Mahavidyslaya, Tesagon. (Sangu)

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"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Dist- Sangli

Date:-14/09/2016

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 15/09/2016 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Felicitation of meritorious students.

2. Sports activities.

3. Preparation of AQAR of 2016-17.

4. Placements of the students.

5. Competitive examinations.

6. Participation of students in cultural activities and women empowerment program.

7. Internal Exams and Lead College Programs.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|--------------|
| 1 | Dr. R. R. Kumbhar | Chairman | * 0 |
| 2 | Dr. V. Y. Pawar | Teacher | Con anyoning |
| 3 | Mr. K. S. Patil | Teacher | Bhai |
| 4 | Mr. M. D. Patil | Teacher | Mai |
| 5 | Dr. J. S. Ghodake | Teacher | Ar |
| 6 | Dr. B. T. Kanase | Teacher | Bas |
| 7 | Dr.S.Y.Hongekar | Management Representative | Hong |
| 8 | Mr. M.B.Kadam | Administrative Officer | man |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | |

| 10 | Mr. Dilip Joglekar | Industrialist | 1 antras |
|----|-----------------------------|---------------|----------|
| 11 | Dr. Mansing Jadhav | Stakeholder | Diago |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Soutil |
| 13 | Mr. A.B.Kamble | Alumni | Kamble |
| 14 | Dr.N.A.Kulkarni | Coordinator | Autom |

(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

Minutes of IQAC Meeting

The minutes of the meeting are given bellow.

 The students of the college are continuously excelled in various university exams and other activities in the preceding year. It is necessary to motivate them by felicitating them publically. The IQAC members have suggesting organizing a separate felicitation function of these merit holder students of the last semester.

The issue has been raised by Shri. K. S. Patil

The issue has been supported by Shri.A. B. Kamble

Outcome – A separate felicitation function of merit holder students of the last semester was successfully organized.

 The issue regarding the participation of students in various sports activities has been discussed. It has been decided to suggest motivating the students for the participation in various sports activities.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Dr.Mansing Jadhav

Outcome - Many of the students have participated in various sports activities and performed satisfactorily.

 An issue of preparing and sending the AQAR of 2017-18 to NAAC Bangalore before the valid period has been raised in the meeting. The IQAC committee is suggesting the IQAC Coordinator and Principal of the College to prepare and send the AQAR of 2017-18 to NAAC Bangalore before valid period.

The issue has been raised by Prin. Dr. S Y .Hongekar The issue has been supported by Shri. Avinash Kaka Patil Outcome – The AQAR of 2017-18 has been prepared and sent to NAAC

Bangalore before due period.

4. An issue of on campus and off campus placements of the students has been raised in the meeting. The IQAC committee has been suggesting to the placement cell of the college to contact more companies and invite them in the college for the placements of more and more students of the college.

The issue has been raised by Dr. Mansing Jadhav

The issue has been supported by Shri. M. B. Kadam

Outcome – Number of students have got the placements in on campus and off campus placement camps. The report is with placement cell department

5. An issue regarding the students' performance and coaching for competitive examinations has been raised in the meeting. The IQAC has suggested to conduct the guest lectures of experienced persons in the field should be arranged and some workshops should be organized for the students. The IQAC committee has suggested conducting some mock competitive tests for the students.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. K. S. Patil

Outcome - The guest lecturers of experienced persons were arranged.

6. The IQAC committee has discussed an issue of participation of students in various cultural, essays, elocution and debating competition has been discussed in the meeting. The IQAC committee has suggested to motivate the students for participation in various cultural, essay, elocution and debating competition.

The issue has been raised by Shri. A. B. Kamble

The issue has been supported by Dr. J. S .Ghodake

Outcome - Number of students were participated in various cultural, essay, elocution and debating competition.

7. An issue of internal complaints and women empowerment programs for the girl students of the college has been raised in the meeting. The IQAC has suggested to organize the supportive programs on internal complaints and women empowerment for girl students

The issue has been raised by Shri. M. D. Patil

The issue has been supported by Dr. N. A. Kulkarni

Outcome – Various programs of internal complaints and women empowerment programs for the girl students has been organized.

8. An issue of Continuous Internal Evaluation (CIE) with respect to NAAC guidelines has been discussed in the meeting. The committee members have suggested for conducting various tests like class tests, open book tests, surprise tests, seminars and group discussions for the improvement of the students' performance in the university examinations.

The issue has been raised by Prin. Dr. S. Y. Hongekar

The issue has been supported by Dr. Mansing Jadhav

Outcome – Various tests like class tests, open book tests, surprise tests, seminars and group discussions for the improvement of the students' performance in the university examinations were conducted during the period.

 The IQAC members have suggested arranging some guest lectures of some eminent speakers in the upcoming academic year.

The issue has been raised by Shri. K. S. Patil

The issue has been supported by Shri. Dilip Joglekar

Outcome - Some guest lecturers of eminent speakers' sere arranged.

10. Functioning of Lead College Scheme in the college has been discussed in the meeting. The IQAC members have decided to suggest the lead college committee to undertake maximum student central activities under this scheme.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome - Number of student central activities under Lead College scheme were arranged.

11.An' issue of role of media and film making in the society has been considerably increasing day by day. The committee thinks that the students of the college should know the techniques in media and film making. Keeping in mind the committee has decided to suggest to conduct some special workshops on media and film making.

The issue has been raised by Shri. Avinash Kaka Patil

The issue has been supported by Shri. A. B. Kamble

Outcome -A special workshop on media and film making has been arranged.

12. An issue of organizing departmental alumni meet has been raised by some members. The committee thinks that the alumni students of the college should invited and motivate them to participate in various college activities. Keeping in mind the committee has decided to suggest departments to conduct the alumni meet of their department.

The issue has been raised by Prin. Dr. R. R. Kumbhar

The issue has been supported by Shri. M. B. Kadam

Outcome - Some departments has conducted the alumni meet.

| Sr. No. | Name | Designation | Signature |
|------------|-------------------|-------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | ð. |
| 2 | Dr. V. Y. Pawar | Teacher | Consumed. |
| 3 | Mr. K. S. Patil | Teacher | Paris |
| 4 | Mr. M. D. Patil | Teacher | Mai |
| 5 | Dr. J. S. Ghodake | Teacher | En |
| 6 | Dr. B. T. Kanase | Teacher | Bars |

| 7 | Dr.S.Y.Hongekar | Management Representative | Hong |
|----|-----------------------------|---------------------------|---------|
| 8 | Mr. M.B.Kadam | Administrative Officer | mander |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | |
| 10 | Mr. Dilip Joglekar | Industrialist | 1 alles |
| 11 | Dr. Mansing Jadhav | Stakeholder | Ham |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Fatil |
| 13 | Mr. A. B. Kamble | Alumni | Kamble |
| 14 | Dr. N. A. Kulkarni | Coordinator | Autor |

Automi (Dr. N. A. Kulkarni) IQAC Co-Ordinator, PD VP Mahavidyalaya, Tasgaon.

(Dr. R. R. Kumbhar) **Principal** Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli) "ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Dist- Sangli

Date:-19/11/2016

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 20/11/2016 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Conduct of study tours.

2. Organization of 'VASANTAVISHKAR' Poster competition.

3. Celebration of 'VIVEKANAND SAPTAH.'

Analysis of university results.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | ¥ |
| 2 | Dr. V. Y. Pawar | Teacher | (grand- |
| 3 | Mr. K. S. Patil | Teacher | BRut |
| 4 | Mr. M. D. Patil | Teacher | Doi |
| 5 | Dr. J. S. Ghodake | Teacher | Et. |
| 6 | Dr. B. T. Kanase | Teacher | Pare |
| 7 | Dr. S. Y. Hongekar | Management Representative | Hong |
| 8 | Mr. M. B. Kadam | Administrative Officer | manda |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | . 1 |
| 10 | Mr. Dilip Joglekar | Industrialist | 1 dates |
| 11 | Dr. Mansing Jadhav | Stakeholder | Ham |

| 12 | Miss. Sanyjuja Suresh Patil | Student | Satil |
|----|-----------------------------|-------------|---------|
| 13 | Mr. A. B. Kamble | Alumni | Kambile |
| 14 | Dr. N. A. Kulkarni | Coordinator | Stink |

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(Dr.N.A.Kulkarni) IQAC Co-Ordinator, PD VP Monavidyalaya,

(Dr.R.R.Kumbhar) Principal >

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P. Manutes of IQAC Meeting Padmabhushan Dr. Vasantraodada Pattl Tasgaon. The minutes of the meeting are given bellow. Mahavidyalaya, Tasgaon. (Sangli)

 The issue of felicitation of merit holder students has risen by some members to motivate the other students. A decision has been taken to arrange a lecture of an eminent speaker on the occasion.

The issue has been raised by Shri. A. B. Kamble

The issue has been supported by Dr. J. S. Ghodake

Outcome – A program of felicitation of merit holder students has been arranged.

2. An issue of organizing study tours by various departments has been raised by some members. A decision has been taken to organize the study tours to the places of educational interest and the travelling should be carried out through RTO permitted vehicles.

The issue has been raised by Shri. K. S. Patil

The issue has been supported by Shri. M. D. Patil

Outcome – Various departments have organized study tours at various places of their subject interest.

3. Creating research atmosphere among the students is a key issue in higher educational institutes. An issue of organizing research oriented poster competition has been raised by some members. It has been decided to organize an annual research oriented 'Vasantavishkar' poster competition in the December. A decision has also been taken to send more and more quality posters to the district level 'Avishkar' poster competition organized by Shivaji University, Kolhapur.

The issue has been raised by Dr. B. T. Kanase

The issue has been supported by Dr. J. S. Ghodke

Outcome – An annual research oriented 'Vasantavishkar' poster competition has been arranged in the last week of December.

 An issue of organizing research oriented poster competition at district level has been raised by some members.

The issue has been raised by Dilip Joglekar

The issue has been supported by Dr. Mansing Jadhav

Outcome - The poster competition has been organized.

5. An issue of celebration of annual 'Vivekananda Saptah' has been raised by some members. A decision has been taken to organize this week in a systematic manner. The decision has been taken to organize various competitions during the week to give the students a chance to show their art and skills. Suggestion has been given to organize rangoli, essay, and elocution competition for the students.

The issue has been raised by Prin. Dr. R. R. Kumbhar

The issue has been supported by Avinash Kaka Patil

Outcome – An annual 'Vivekananda Saptah' has been arranged in a systematic manner. Various competitions like rangoli, essay, elocution competition has been organized during the week to give the students a chance to show their art and skills.

6. An issue of performance of the students in the first semester in university examinations has been discussed in the meeting. Discussion has been made to analyze the results and take the steps to improve the results.

The issue has been raised by Dr. J. S. Ghodake

The issue has been supported by Shri. A. B. Kamble

Outcome – Performance of the students in the first semester in university examinations has been discussed in the meeting.

| Sr. No. | Name | Designation | Signature |
|------------|-----------------|-------------|-----------|
| 1 | Dr.R.R.Kumbhar | Chairman | 80 |
| 2 | Dr. V. Y. Pawar | Teacher | (annut |
| 3 | Mr. K. S. Patil | Teacher | Barin |
|----|-----------------------------|---------------------------|---------|
| 4 | Mr. M. D. Patil | Teacher | OD" |
| 5 | Dr. J. S. Ghodake | Teacher | the |
| 6 | Dr. B. T. Kanase | Teacher | Pars |
| 7 | Dr.S.Y.Hongekar | Management Representative | Houg |
| 8 | Mr. M.B.Kadam | Administrative Officer | mand |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | |
| 10 | Mr. Dilip Joglekar | Industrialist | 10ales |
| 11 | Dr. Mansing Jadhav | Stakeholder | Jan |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Fatil |
| 13 | Mr. A.B.Kamble | Alumni | Kumble |
| 14 | Dr.N.A.Kulkarni | Coordinator | Stuller |

tultami (Dr. N. A. Kulkarni)

IQAC Co-Ordinator, PDVP Mahavidyalaya, Tasgaon (Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार," -शिक्षणमहर्षी डॉ. बापूजी साळुंखे Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist- Sangli

Date:-24/03/2017

IQAC Meeting Notice

All the IQAC members are here by informed that a meeting is convened on 25/03/2017 at 11.30 am in the IQAC Room. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Organization of annual sports day.

2. Workshops on various aspects.

3. Program for Voter Awareness.

4. Organization of Self funded conferences.

5. Distribution of Government Scholarships.

| Sr. No. | Name | Designation | Signature |
|---------|-----------------------------|---------------------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | K |
| 2 | Dr. V. Y. Pawar | Teacher | Gunners - |
| 3 | Mr. K. S. Patil | Teacher | Auria |
| 4 | Mr. M. D. Patil | Teacher | Mai |
| 5 | Dr. J. S. Ghodake | Teacher | At |
| 6 | Dr. B. T. Kanase | Teacher | Pone |
| 7 | Dr.S. Y. Hongekar | Management Representative | Houg |
| 8 | Mr. M.B.Kadam | Administrative Officer | manday |
| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | |
| 10 | Mr. Dilip Joglekar | Industrialist | 1 autos |
| 11 | Dr. Mansing Jadhav | Stakeholder | Atta Ate |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Satil |

| 13 | Mr. A. B. Kamble | Alumni | Kem 518 |
|-----------------------|---|-------------|--|
| 14 | Dr. N. A. Kulkarni | Coordinator | Automi |
| (Dr. 1 IQAC PDV | A. Kulkarni) Inator, Idyalaya, Tasgaon | r | (Dr. R. R. Kumbhar) admathushan Dr. Vasantraodada Patil |

The minutes of the meeting are given bellow.

 The issue regarding the organizing of the annual sports day for the academic year 2016-17 has been discussed. A decision has been taken to call auspicious guest for the function who has known for the social work.

The issue has been raised by Shri. Avinash Dinkarrao Patil The issue has been supported by Dr. Mansing Jadhav Outcome – The function has been successfully organized.

2. The student strength of the college is day by day increasing. There is a possibility of increase in the student strength in the upcoming year also. The increased student strength needs additional care regarding the bad habits of the students. The attraction towards the tobacco and allied chewing is increasing day by day. Some members of the committee are worried about these bad habits in the college campus. Suggestions are made to arrange some functions for "Anti Tobacco Campaign." The IQAC committee is suggesting the NSS unit to conduct this activity as early as possible.

The issue has been raised by Shri. M. D. Patil

The issue has been supported by Shri. Dilip Joglekar

Outcome -Anti Tobacco Campaign Poster Competition has been organized.

3. Some members of the committee have raised the issue of organizing some subject related workshops in the remaining time of January and February months. The suggestions are made to organize some workshops regarding Competitive Exams, Industrial Training, Mathematics, Scientific Terminologies, and Climate Change. The issue has been raised byShri. M. D. Patil The issue has been supported by Shri. Dilip Joglekar Outcome – The programs were arranged.

 The IQAC committee has been suggesting conducting some awareness program among the new voters and the new EVM machine among the students and common people.

The issue has been raised byShri. M. B. Kadam

The issue has been supported by Dr. N. A. Kulkarni

Outcome – An awareness program among the new voters and the new EVM machine among the students and common people has been arranged.

 An issue of some field surveys has been discussed in the meeting. The committee has decided to suggest asocial survey of the selected village.

The issue has been raised by Dr. J. S. Ghodake

The issue has been supported by Shri. A. B. Kamble

Outcome - The Geography department has conducted a village survey.

6. The IQAC committee has discussed an issue of organization of the seminar and conferences. Now a day the funding agencies are not happy to give the funds for organization of the seminar and conferences.

The issue has been raised by Prin. R. R. Kumbhar

The issue has been supported by Shri. Dilip Joglekar

Outcome - Some seminar and conferences were arranged.

7. An issue of performance of the students in university examinations has been discussed in the meeting. Discussion has been made to develop educational atmosphere in the college campus. IQAC has suggested developing a healthy and favorable academic atmosphere by providing maximum facilities for the students to achieve the positions in university merit list in upcoming academic year 2016-17. The issue has been raised by Shri. Dilip Joglekar The issue has been supported by Shri. M. D. Patil

Outcome - A function has been organized.

8. An issue of undertaking various extension activities through NCC and NSS has been discussed in the meeting. The members have suggested to NSS and NCC to undertake the activities which will be helpful to the society.

The issue has been raised by Prin. Dr. S. Y. Hongekar

The issue has been supported by Shri. K. S. Patil

Outcome – Various extension activities through NCC and NSS has been arranged.

9. An issue of organizing upcoming 'International Yoga Day' in the college has been discussed in the meeting. The members have suggested arranging the yoga for the faculty and to the students. It is suggested that the NSS and NCC students to undertake the yoga publically.

The issue has been raised by Shri. M. B. Kadam

The issue has been supported by Dr. N. A. Kulkarni

Outcome - The day has been celebrated widely.

10. An issue of distribution of government scholarships of the students has been discussed in the meeting.

The issue has been raised by Shri. Dilip Joglekar

The issue has been supported by Shri. M. D. Patil

Outcome – The distribution of government scholarships of the students has been has been successfully completed.

| Sr. No. | Name | Designation | Signature |
|------------|-------------------|-------------|-----------|
| 1 | Dr. R. R. Kumbhar | Chairman | ¥ |
| 2 | Dr. V. Y. Pawar | Teacher | Que D: |
| 3 | Mr. K. S. Patil | Teacher | |
| 4 | Mr. M. D. Patil | Teacher | Dài |

| 5 | Dr. J. S. Ghodake | Teacher | (the |
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| 6 | Dr. B. T. Kanase | Teacher | gne |
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| 9 | Mr. Avinash Dinkarrao Patil | Member of Local Society | |
| 10 | Mr. Dilip Joglekar | Industrialist | 161005 |
| 11 | Dr. Mansing Jadhav | Stakeholder | Atum |
| 12 | Miss. Sanyjuja Suresh Patil | Student | Fatil |
| 13 | Mr. A. B. Kamble | Alumni | Kannbig |
| 14 | Dr. N. A. Kulkarni | Coordinator | Mulchru |
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(Dr. R. R. Kumbhar) For Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

(Dr. N. A. Kulkarni) IQAC Co-Ordinator, P.D.V.P. Mahavidyalaya, Tasgaon.



| RA BT 3 LIR. Minister of Revenue, Public Works FOUNDER Govt. of Maharashtra | CHAIRMAN | SECRETARY | PRINCIPAL |
|--|----------|-----------|-----------|
| Ref.No. : PDVPMT/ | | Date : | |

ACTION TAKEN REPORT (IQAC) 2016-17

| Sr. No. | Plan of Action | Action Taken | |
|---------|--|--|--|
| | First Meeting on 07 | /07/2016 | |
| 1 | Review of minutes of previous IQAC | The minutes of the previous meeting are | |
| | Meeting | approved by the Council. | |
| 2 | To Start new add on Courses for skill | Few add on Courses for skill | |
| | development of students | development of students Courses were | |
| | | added successfully | |
| 3 | Purchase of Quality subject related Books | Quality subject books of Rs. 50,000/- in | |
| | in Library | prescribed Budget were purchased | |
| 4 | Discussion on construction of new building | The New building construction was on | |
| | to face the increasing student strength | the way to complete. | |
| 5 | Preparation of detailed Departmental Profile | All departments prepared detailed | |
| | from each department. | Departmental Profiles successfully. | |
| 6 | Discussion to motivate faculty to publish | 39 quality research papers were | |
| | quality research papers. | published successfully in reputed | |
| | | journals. | |
| 7 | To organize seminars and conferences on | Some seminars and conferences were | |
| | various themes. | organized. | |
| 8 | To develop healthy and academic | Fruitful suggestions were made to | |
| | atmosphere by providing maximum | achieve the goal. | |
| | facilities to students to encourage merit | | |
| | based performance in University | | |
| | Examination. | | |
| 9 | To conduct various extension activities | Various extension activities through | |

| | through NCC, NSS and various | NCC, NSS were successfully conducted. |
|----|---|---|
| | departments. | |
| 10 | To present and approve Institute perspective | Institute Perspective Plan for five years |
| | plan for 2016-17 to 2020-21 | presented and approved. |
| | Second Meeting on 1 | 5/09/2016 |
| 11 | Review of minutes of 1 st IQAC Meeting | The minutes of the meeting held on |
| | | 07/07/2016 were approved by the |
| | | Council. |
| 12 | Organization of Felicitation program for | Felicitation program for meritorious |
| | meritorious students and motivation to | students and motivation to remaining |
| | remaining students | students was successfully organized in |
| | | second term of academic year. |
| 13 | Discussion to motivate students' | Many of the students participated in |
| | participation in sports activities. | sports activities and performed |
| | | satisfactorily. |
| 14 | Discussion and Preparation of AQAR of | The AQAR of 2015-16 prepared and |
| | 2015-16 | sent to NAAC office in time. |
| 15 | Discussion to conduct On campus | Numbers of students have got placement |
| | placement activities. | in on campus and off campus placement |
| | | camps. |
| 16 | To conduct various Guest lecturers of | Competitive Exam Cell has organized |
| | experienced persons for competitive | Guest lecturers of experienced persons |
| | examination guidance. | for competitive examination guidance. |
| 17 | Discussion to motivate students' | Many of the students participated in in |
| | participation in cultural, essay, elocution, | cultural, essay, elocution, Debate |
| | Debate activities. | activities. |
| | | and performed satisfactorily. |
| 18 | To organize the supportive programs on | Various programs on Internal |
| | Internal Complaints and Women | Complaints and Women Empowerment |
| | Empowerment for girl students | for girl students were organized. |
| 19 | Review of CIE activities of each department | Every department has conducted CIE |
| | to improve the student in University Exam. | activities to improve the student in |
| | | University Exam. |
| 20 | Review of Function of Lead College | Number of Student Centric activities |

| | Scheme of Shivaji University, Kolhapur | organized under Lead College Scheme |
|----|---|--|
| | | of Shivaji University, Kolhapur |
| 21 | To conduct special workshop on media and | Special workshop on media and film |
| | film making. | making was organized by Department of |
| | | Marathi |
| 22 | To organize Departmental Alumni Meet | Departmental Alumni Meet has been |
| | | organized by each department. |
| | Third Meeting on 20 | 0/11/2016 |
| 23 | Review of minutes of 2 nd IQAC Meeting | The minutes of the meeting held on |
| | | 15/09/2016 are approved by the |
| | | Council. |
| 24 | To organize Annual sports day and | Annual sports competitions on various |
| | competition and Felicitation of sports | sports events were organized during 12 th |
| | students. | January to 19 th January and Annual |
| | | Prize distribution program was |
| | | organized. |
| 25 | Organization of Study Tours | Study Tours were organized by |
| | | Marathi, History Economics Commerce |
| | | Physics, Chemistry, Botany and |
| | | Zoology as per the syllabus. |
| 26 | Organization of Vasantavishkar Poster | Vasantavishkar Compilation on |
| | Competition. | 21/12/2017, 67 research posters and 201 |
| | | students have participated along with |
| | | their poster. |
| 27 | Organization of Vivekanand Saptah | Celebration of Vivekananda Saptah is |
| | (Week) | tradition of our mother institution. In |
| | | this academic year our IQAC planed and |
| | | successfully organized various activities |
| | | and competitions during 12th January to |
| | | 19th January to inculcate student's art |
| | | and skills. |
| 28 | Analysis of University Result of First | University Result of First semester was |
| | semester. | analyzed by each department and |
| | | counseling of the students was done to |

| | | achieve the rank in the next semester | | | |
|----|---|---|--|--|--|
| | | Exam. | | | |
| | Fourth Meeting on 25/03/2017 | | | | |
| 29 | Review of minutes of 3 rd IQAC Meeting | The minutes of the meeting held on | | | |
| | | 20/11/2016 are approved by the | | | |
| | | Council. | | | |
| 30 | To organize Felicitation of sports students. | Annual Prize distribution program was | | | |
| | | organized. | | | |
| 31 | Organization of Anti-Tobacco Campaign | Anti-Tbacco Poster Competition and | | | |
| | | Rangoli competition was organized by | | | |
| | | NSS. | | | |
| 32 | To organize seminars, workshops, guest | Seminars, workshops were organized | | | |
| | lectures, industrial visits on various themes | successfully. | | | |
| | in remain time of the academic year. | | | | |
| 33 | Organization of Awareness programs for | Awareness programs for voters and new | | | |
| | voters and new system of EVM machine to | system of EVM machine to voters and | | | |
| | voters. | common man was organized. | | | |
| 34 | To develop healthy and academic | Fruitful suggestions were made to | | | |
| | atmosphere by providing maximum | achieve the goal. | | | |
| | facilities to students to encourage merit | | | | |
| | based performance in University | | | | |
| | Examination | | | | |
| 35 | To conduct various extension activities | Various extension activities through | | | |
| | through NCC, NSS and various | NCC, NSS were successfully conducted. | | | |
| | departments. | | | | |
| 36 | Planning to organize International Yoga | Successfully planned and celebrated | | | |
| | Day | International Yoga Day. | | | |
| 37 | Review of students scholarship distribution | Scholarships were successfully | | | |
| | from Govt. | distributed and deposited on their bank | | | |
| | | account | | | |

ullani (Dr. N. A. Kulkarni) IQAC Co-Ordinator, PD VP Mahavidyalaya, Tasgaon



(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangh)





"Dissemination of Education for Knowledge, Science and Culture" -Shikshanmaharashi Dr. Bapuji Salunkhe

Swami Vivekanand Shikshan Sanstha Kolhapur

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416412, (MS) India

Report on



Research Convention

30th December 2019



"Dissemination of Education for Knowledge, Science and Culture" -Shikshanmaharashi Dr. BapujiSalunkhe

Swami Vivekanand Shikshan Sanstha Kolhapur

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416412, (MS) India

Organize

VASANT AVISHKAR

| > Event | : Research computation |
|-------------|----------------------------------|
| > Date | : 30 th December 2019 |
| > Organizer | : PDVP College Tasgaon |
| > venue | : College Campus |

PARTICIPANT

| Participant | Male | Female | Total |
|-------------|------|--------|-------|
| Students | 31 | 47 | 78 |
| Faculty | 12 | 05 | 17 |
| | | | 95 |

Innovative research is a search for new business and strategic techniques and methods. They develop and optimize well-known methodologies, enabling the implementation of new and better solutions. Innovative research focuses on creating new ideas, analyzing problems, diagnosing them and identifying their causes.

Accordingly, our college initiating the organization of "Vasant Avishkar" every year to provide a platform to the students from the various groups and extending the helping hands to understand the research attitude and acquiring the scientific knowledge thus transforming for the cause of development. This will also educate students and teachers to understand their responsibility towards societal development. In this year also, our college was organized the "Vasant Avishkar" research computation to initiate the scientific attitude in students and to express their research ideas.

In this year "Vasant Avishkar" research poster computation was organized on 30th December 2019 in college campus. For the inaugural function we invite as a chief guest to **Dr**. **P. M. Patil Sir**, A.S.C. College, Palus. Also we invite **Dr. Sunil Kamble** SMDBS College, Miraj and **Dr. Sajjan Kamble** ACS College, Palus as an examiner for the same computation. Principal **Dr. Milind Hujare** as a precedent of the program guided the student about the research and informs him how such activities auspice there features. Chief Guest of program Dr. P. M. Patill In his speech said that such event gives the right opportunity to the students at the ground level that leads to forming such a young researchers.

INAUGURAL FUNCTION



Principal Dr. Milind Hujare sir delivered speech on Inaugural function



Introductory speech by coordinator Dr. Ajay Ambhore



Chief Guest Dr. P. M. Patil sir delivered speech on inaugural function



Felicitation of Chief Guest Dr. P. M. Patil



Felicitation of Guest Dr. Sunil Kamble



Felicitation of Guest Dr. Sunil Kamble



Inauguration of poster presentation



Invited guest with college staff

Introductory speech was delivered by the program coordinator **Dr. Ajay Ambhore**. Total 78 students are participated and present their research poster in this computation. All these research projects are evaluated by the examiners.



Chief Guest and Principal observing the project in the computation



Examiners examine the research projects



Examiners examine the research projects



Vote of thanks by Dr. Amol Sonawale

After the completion of evaluation process all the examiners handover the result towards our Principal ant it was declared to students on the same day. From the result t 12 students are selected to participate in district level "Avishkar" organized by Shivaji University, Kolhapur at Balvant College, Vita.

Photo Gallery





REGISTRATION

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PDVP College, Tasgaon

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Dr. Ajay N. Ambhore (Coordinator)

TAMILONAL Prin. Dr. Milind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli),





"Dissemination of Education for Knowledge, Science and Culture" -Shikshanmaharashi Dr. Bapuji Salunkhe

Swami Vivekanand Shikshan Sanstha Kolhapur

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416412, (MS) India

Report on



Research Convention

19th & 20th December 2018





Research Committee – 2019-20

"Dissemination of Education for Knowledge, Science and Culture" -Shikshanmaharashi Dr. BapujiSalunkhe

Swami Vivekanand Shikshan Sanstha Kolhapur

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416412, (MS) India



VASANT AVISHKAR

| > Event | : Research computation |
|-------------|-----------------------------|
| > Date | : 19th & 20th December 2018 |
| > Organizer | : PDVP College Tasgaon |
| > venue | : College Campus |

PARTICIPANT

| Participant | Male | Female | Total |
|-------------|------|--------|-------|
| Students | 78 | 136 | 214 |
| Faculty | 42 | 06 | 48 |
| | | | 262 |

Research is an outcome basically of the innovative minds in the modern era with the support of well-equipped laboratories and such other infrastructure. If the same is made available by the educational institution at right ages, It will not only stimulate the activities

PDVP Mahavidyalaya, Tasgaon

but will help to identify the student to be groomed further as acclaimed researchers in their respective field.

On this basis, every year our college was organizing the "Vasant Avishkar" research computation to initiate the scientific attitude in students and provide the space to student to express their research ideas.

In this year "Vasant Avishkar" research poster computation was organized on 19th and 20th December 2018 in college campus. For the inaugural function we invite as a chief guest to Dr. S. T. Salunkhe Sir, Principal, A.S.C. College, Ramanand Nagar. During his speech in said that, right opportunity when made available at the ground level leads to forming such a young research group which can be molded in desire direction by motivating them by their teachers.

INAUGURAL FUNCTION



Principal Dr. R. R. Kumbhar sir on Inaugural function



Chief Guest Dr. S. T. Salunkhe sir delivered speech on inaugural function



Students and staff on Inaugural function



Introductory speech by co-ordinator Dr. Ajay N. Ambhore on Inaugural function

PDVP Mahavidyalaya, Tasgaon

Page 3

Research Committee - 2019-20

Principal Dr. R. R. Kumbhar sir is on precedential chair of the program. In his speech hi said that "Vasant Avishkar" is an interclass computation for the entry of Univerity organized "Avishkar" research computation. Research is not the limited quantity for the university level. But it can be start from college level. The introductory speech was delivered by the program co-ordinator Dr. Ajay N. Ambhore.



Vote of thanks by Dr. T. K. Badame Sir



Registration desk



Inauguration of poster presentation



Examiners of 'Vasant Avishkar'

For this research poster presentation computation total 214 students of the college were participate and presented there invention in front of the examiner. College allotted total 18 examiners to examine the research invention for six categories in first day and 12 examiners for the second day.



Chief Guest and Principal observing the project in the computation



Examiners examine the research projects

PDVP Mahavidyalaya, Tasgaon



Examiners examine the research projects

Finally at evening all the examiners handover the result towards our Principal ant it was declared to students in the evening of the forest day. The selected students again represent their research project on second day from which final 12 students from each category were selected wich then participate in district level "Avishkar" computation organized by Shivaji University, Kolhapur.

REGISTRATION

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Research Committee – 2019-20



Page 6

Research Committee – 2019-20



Research Committee - 2019-20



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Dr. Ajay N. Ambhore (Coordinator)

millimay Prin. Dr. Milind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli),

PDVP Mahavidyalaya, Tasgaon

Page 8







"ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार" - शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshanan Sansths Kolhapur

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON DIST – SANGLI

(Affiliated to Shivaji University, Kolhapur)

Research Committee

"VASANT AVISHKAR" 2017-18





| | "Vasant Avishkar" |
|-------------|-----------------------------|
| > Event | "Vasant Avishkar" |
| > Date | 21 st Dec. 2017 |
| > Organizer | Research Committee |
| > Venue | PDVP Mahavidyalaya, Tasgaon |

"Vasant Avishkar"

Like the previous year, research committee organize "Vasant Avishkar" research computation as a strategy to participate in district level "Avishkar" research computation for win maximum prizes.

For that purpose research committee invite the research proposal from all departments. For six research categories, total 67 research posters are participated in this event from all departments. All these posters are examined by the college examiner team in first round. In this round total 24 research posters are selected by the committee and send them in the next round.

In second round experts from the other college are appointed to examination of the posters. Students selected for the first round again present their presentation there research idea in front of the expert of second round. In second round, experts select total 12 research posters (two from each category). All these selected research posters are approved to participate in district level "Avishkar" research computation organized by Shivaji University held at Deshbhakt Anadrao Balwantrao Naik Arts & Science College, Chikhali. We are happy to write that one students of our college, Miss. Poonam Pore dot second prize in district level and selected for university level "Avishkar" research computation.

Photo Gallery



Dr. Ajay N. Ambhore

Prin. Dr. Millind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Taogaon (Sangli),







"ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार" - शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshanan Sansths Kolhapur

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON DIST – SANGLI

(Affiliated to Shivaji University, Kolhapur)

Research Committee

"VASANT AVISHKAR" 2016-17





"Vasant Avishkar"

| > Event | "Vasant Avishkar" 2016-17 |
|-------------|-------------------------------|
| > Date | 16 st Oct. 2016 |
| > Organizer | Research Committee |
| > Venue | PDVP Mahavidyalaya, Tasagaon. |

"Vasant Avishakr" 2016-17

On occasion of Birth Centenary year of late Padmabhushan Dr. Vasantraodada Patil, our college decided to start an activity to increase the research attitude in the rural area student and provided a platform to display their research imagination in front of all. on that basis "Vasant Avishkar" activity was created by the college research committee. The main objectives of this activity are to invite the research proposal from the entire department in specific subject and display that in this research program. All these research proposals are evaluated from college committee and then from the expert from other colleges. The best research proposals are then sanctioned to participate in district level "Avishkar: research computation organized by Shivaji University, Kolhapur.

Thus, in educational year 2016-17 in the guidance of Principal Dr. R. R.Kumbhar sir, college research committee organize the "Vasant Avishkar" research computation on 21st Oct. 2016 and invite the research proposal from all departments. Near about 108 research posters are participate in this event. all this poster are examined by college expert committee and selected posters are forward to the next round. In the next round examiners from the other colleges,

Dr. P. B. Kale, Dr. V. D. Suryawanshi, SMDBS College, Miraj, evaluate all the posters and select the best one which was approve to participate in district level "Avishkar" research computation organize by Shivaji University, Kolhapur.

In district level, total 12 research posters was presented in six categories. From which, Mrs. Manisha Kishor Gujar (B.Sc. III, Stat.), and Mrs. Komal Maruti Chavan (B.Sc. III, Chem.) got the first prize and selected for the university level "Avishkar" research computation.



| क. मूलभूत विज्ञान | | |
|-------------------|---|---|
| Sr.No. | Title of the Poster | Name of Student |
| 1 | Preparation of Rayon Thread from Filter paper | Hasbe Suraj A. Harale Ramchandra Pralhad |
| 2 | Use of Omamental Plant leaves as acid-base indicator | Patil Kornal S. Patil Hernlata B. |
| 3 | Carbon Sequestration in the Standing trees at P.D.V.P. Campus | Mane Nikita S. Patil Pratibha A. |
| 4 | Analysis of Coconut Water | Petkar Shridhar Someshwa Sadakale Tushar Jagannath |

E. Engineering and Technology

Name of Student

Bhosale Abhijit Vishnu

Shinde Madhuri A.

Mali Akshuy Bhaskar

Korade Akshay A.

Yadhav Gajanan S.

Shinde Mayawati Sambhaji

Pandit Abhijeet Udaykumar

ई. अभियांत्रिकी व तंत्रज्ञान

by Auto combustion method Edake Akshay Ashok

Title of the Poster

Synthesis of Nano Material

Best from Waste

with the help of Ar.

Use of Renewable

Resource, Solar Energy

principle

Generation of Electricity

Sr.No.

1

2

3

4

D. Agriculture and Animal Husbandry

ड. शेती आणि पशुसंवर्धन

| Sr.No. | Title of the Poster | Name of Student |
|--------|---|---|
| t | Effect of Plant Extract on germination of Brasica Seeds | Salunkhe Ashwini S. Putil Yogini R. |
| 2 | Flowers Life with Food and Water | Pawar Nikita K. Nalawade Amuradha M. |
| 3 | Statistical Analysis of Sugarcane Production | Jadhav Resham D. Babar Priya B. |
| 4 | Konkan-Marathwada Joint - River Plan | Jagtap Dipali G. Patil Rutuja B. |

F. Medicine and Farmacy

फ, वैद्यक व औषधशास्त्र

| St.No. | Title of the Poster | Name of Student |
|--------|--|---|
| 1 | Analysis of iron content in vegetable and spices. | Chavan Komal Maruti Chavan Prajakta Mahadev |
| 2 | Analysis of Honey | Mali Rupali P, Mali Pornima M. |

Dr. Ajay N. Ambhore

(Coordinator)

Prin. Dr. Millind S. Hujare Principal Patrathushan Dr. Vasantraodata Patl Mahavidyalaya, Tasgaon (Sangl). "Dissemination of Education through Knowledge, Science and culture" -ShikashanmaharshiDrBapujisalunkhe

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665)

(Affilated to Shivaji University, Kolhapur)

Date: 04/07/2020

College Research Committee

(2020-21)

Notice

All members of research committee are here by informed that there meeting is arranged at09/07/2020 on 11:00 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Planning of research activities of the college and departments

3. Planning for "VasantAvishkar" research computation

4. Planning Internal research grants

,

5. Any other relevant issues made by the IQAC members

| Sr. No. | Members | Notice received |
|---------|--------------------|-----------------|
| 1 | Dr. B. T. Kanse | more |
| 2 | Dr. A. G. Sonawale | ternat. |
| 3 | Dr. A. S. Wagh | 20121210 |

Dr. Ajay N. Ambhore Chairman Research Committee

(Dr. N ind S. Hujare) un Dr. Vasentraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

"Dissemination of Education through Knowledge, Science and culture" -ShikashanmaharshiDrBapujisalunkhe

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665)

(Affilated to Shivaji University, Kolhapur)

Date: 12/11/2020

College Research Committee (2020-21)

Notice

All members of research committee are here by informed that there meeting is arranged at 18/11/2020 on 11:30 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Approval of internal research grant

| Members | Notice received |
|--------------------|--|
| Dr. B. T. Kanse | Dose |
| Dr. A. G. Sonawale | Serverm) |
| Dr. A. S. Wagh | 2.20160 |
| | Members Dr. B. T. Kanse Dr. A. G. Sonawale Dr. A. S. Wagh |

Aam

Dr. Ajay N. Ambhore Chairman **Research Committee**

(Dr. Miff Hujare) rincipal Padmabhushan Dr. Vasantraodada Patil

Mahavidyalaya, Tasgaon. (Sangli)

"Dissemination of Education through Knowledge, Science and culture" -ShikashanmaharshiDrBapujisalunkhe

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665)

(Affilated to Shivaji University, Kolhapur)

Date: 02/09/2021

Research and Innovation Committee

(2020-21)

Notice

All members of research committee are here by informed that there meeting is arranged on Friday, 18/11/2020 at 11:30 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Planning of research activities of the college and departments

3. Planning for "VasantAvishkar" research computation

4.Planning Internal Research promotion Scheme

6. Planing for new Research Sensitization Scheme of Shivaji University, Kolhapur

5. Any other relevant issues made by the IQAC members

| Sr. No. | Members | Notice received |
|---------|------------------|-----------------|
| 1 | Dr. P. B. Teli | Tapp |
| 2 | Dr. S. K. Shinde | - Site- |
| 3 | Dr. H. D. Nadaf | she |

Dr. Ajay N. Ambhore Chairman Research Committee

TURBUL Milind S. Hujare) Principal

Padmabhushin Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)
Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665)

(Affilated to Shivaji University, Kolhapur)

Date: 10/07/2019

College Research Committee (2019-20)

Notice

All members of research committee are here by informed that there meeting is arranged at15/07/2019 on 11:30 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Planning of research activities of the college and departments

3. Planning for "VasantAvishkar" research computation

4.Planning Internal research grants

5. Any other relevant issues made by the IQAC members

| Sr. No. | Members | Notice received | |
|---------|------------------|-----------------|--|
| 1 | Dr. V. Y. Pawar | (2 Jours | |
| 2 | Dr. B. T. Kanse | Pone | |
| 3 | Dr. T. K. Badame | marine | |

Dr. Ajay N. Ambhore Chairman **Research** Committee

. Hujare) rincipal Padmabhus an De Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665)

(Affilated to Shivaji University, Kolhapur)

Date: 04/11/2019

College Research Committee (2019-20)

Notice

All members of research committee are here by informed that there meeting is arranged at08/11/2020 on 11:00 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Approval of internal research grant

| Sr. No. | Members | Notice received |
|---------|--------------------|-----------------|
| 1 | Dr. V. Y. Pawar | ZALL |
| 2 | Dr. B. T. Kanse | poe |
| 3 | Dr. A. G. Sonawale | - Same |

Clonin

Dr. Ajay N. Ambhore Chairman Research Committee

(Dr. M S. Hujare)

Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665)

(Affilated to Shivaji University, Kolhapur)

Date: 12/07/2018

College Research Committee

(2018-19)

Notice

All members of research committee are here by informed that there meeting is arranged at16/07/2018 on 11:00 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Planning of research activities of the college and departments

3. Planning for "VasantAvishkar" research computation

4.Planning Internal research grants

5. Any other relevant issues made by the IQAC members

| Sr. No. | Members | Notice received |
|---------|------------------|-----------------|
| 1 | Dr. V. Y. Pawar | (Nove |
| 2 | Dr. S. R. Jadhav | Valhall |
| 3 | Dr. B. T. Kanse | Door |
| 4 | Dr. T. K. Badame | anter |

Dr. Ajay N. Ambhore Chairman Research Committee

(Dr. R umbhar) Palmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665)

(Affilated to Shivaji University, Kolhapur)

Date: 06/11/2018

College Research Committee (2018-19)

Notice

All members of research committee are here by informed that there meeting is arranged at12/11/2020 on 11:30 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Approval of internal research grant

| Sr. No. | Members | Notice received | | |
|---------|------------------|-----------------|--|--|
| 1 | Dr. V. Y. Pawar | - Alles | | |
| 1 | Dr. S. R. Jadhav | alabar | | |
| 2 | Dr. B. T. Kanse | Pone | | |
| 3 | Dr. T. K. Badame | marken | | |

Dr. Ajay N. Ambhore

Chairman Research Committee

(Dr. R. RaKumbhar) Patmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

Shri Swami VivekanandShikashanSanstha Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya,

Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665) (Affilated to Shivaji University, Kolhapur)

Date: 08/07/2017

College Research Committee (2017-18)

Notice

All members of research committee are here by informed that there meeting is arranged at10/07/2017 on 11:00 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Planning of research activities of the college and departments

3. Strategy revision for "VasantAvishkar" research computation

4. To send proposal for conference/workshop

5. Any other relevant issues made by the IQAC committee

| Sr. No. | Members | Notice received |
|---------|------------------|-----------------|
| 1 | Dr. V. Y. Pawar | (Del oul |
| 2 | Dr. B. T. Kanse | me |
| 3 . | Dr. T. K. Badame | mouncado |
| 4 | Mr. M. D. Patil | Allan |

Dr. S. R. Jadhav Chairman Research Committee

Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665)

(Affilated to Shivaji University, Kolhapur)

Date: 30/11/2017

College Research Committee

(2017-18)

Notice

All members of research committee are here by informed that there meeting is arranged at04/12/2017 on 11:30 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Approval of internal research grant

3. Approval for VasantAvishkar research computation

4. Approval for IPR seminar

5. Approval for sending students for district level "Avishkar" research computation

| Sr. No. | Members | Notice received |
|---------|-------------------|-----------------|
| 1 | Dr. V. Y. Pawar | G. A. A |
| 2 | Dr. B. T. Kanse | pare |
| 3 | Dr. T. K. Badame | Materia |
| 4 | Dr. A. N. Ambhore | Alamin |

Dr. S. R. Jadhav Chairman Research Committee

(Dr. R. R ppabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665) (Affilated to Shivaji University, Kolhapur)

Date: 09/07/2016

College Research Committee

(2016 - 17)

Notice

All members of research committee are here by informed that there meeting is arranged at13/07/2016 on 10:30 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Planning of research activities of the college and departments

3. Strategy revision for VasantAvishkar research computation

4. To send students for district level "Avishkar" research computation

5. To send proposal for conference/workshop

6. Any other relevant issues made by the IQAC committee

| Sr. No. | Members | Notice received |
|---------|------------------|-----------------|
| 1 | Dr. V. Y. Pawar | fot illust |
| 2 | Dr. B. T. Kanse | Dre |
| 3 | Dr. S S. Patil | A. |
| 4 | Dr. T. K. Badame | MARAINAIL |

Dr. C. G. Patil Chairman Research Committee

Huterni

(Dr. R. Ř. Kumbhar) Ver Principal Padmabhushan Dr. Vasantraodada Patil Mahavidvalaya, Tangaon, (Tangla)

Shri Swami VivekanandShikashanSanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665) (Affilated to Shivaji University, Kolhapur)

Date: 07/11/2016

College Research Committee

(2016-17)

Notice

All members of research committee are here by informed that there meeting is arranged at10/11/2016 on 10:30 am in principles office for discussion about following agenda. All should attend the same and cooperate.

Agenda:

1. Conformation of minutes of earlier meeting

2. Strategyfor "VasantAvishkar" research computation

3. To plan for the preparation of district level "Avishkar" computation

5. To plan for the arrangement of International conference

| Sr. No. | Members | Notice received | | |
|---------|------------------|-----------------|--|--|
| 1 | Dr. V. Y. Pawar | X. Old | | |
| 2 | Dr. B. T. Kanse | proce | | |
| 3 | Dr. S. S. Patil | 8 | | |
| 4 | Dr. T. K. Badame | mangent | | |

Dr. C. G. Patil Chairman Research Committee

ulla an Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)







Shri Swami Vivekanand Shikashan Sanstha Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

416312 (Maharashtra) Phon No.: (02346 - 250665) (Affilated to Shivaji University, Kolhapur)

COLLEGE RESEARCH AND INNOVATION COMMITTEE



Minutes of the Meeting

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| 2010-17 | Meeting No. 2 | 3/12/2018 | 5 |
| 2017-18 | Meeting No. 1 | 4/07/2018 | 6 |
| | Meeting No. 2 | 3/12/2018 | 8 |
| 2018-19 | Meeting No. 1 | 4/07/2018 | 10 |
| 2010 17 | Meeting No. 2 | 3/12/2018 | 12 |
| 2019-20 | Meeting No. 1 | 4/07/2018 | 14 |
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Minutes of the Meeting of 2016-17 held on 13th July 2016

Venue: Principals cabin

Date: 13/07/2016

Time: 10:30 - 11:30

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Planning of research activities of the college and departments
- 3. Strategy revision for "Vasant Avishkar" research computation
- 4. To send students for district level "Avishkar" research computation
- 5. Any other relevant issues made by the IQAC committee

Members Present:

- 1. Dr. R. R. Kumbhar, Principal
- 2. Dr. C. G. Patil, Chairman, College Research Committee
- 3. Dr. V. Y. Pawar, Member
- 4. Dr. S. S. Patil, Member
- 4. Dr. B. T. Kanse, Member
- 5. Dr. T. K. Badame, member

Chairman Dr. C. G. Patil welcomes all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman Dr. C. G. Patil reads the minutes and action taken report on it of earlier meeting.

Resolution: All members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Planning of research activities of the college and departments.

Discussion: Research committee discusses this agenda and concludes to increase the research publication as well as participation in conference and workshop to increase the research activity by all departments.

Resolution: all members gave conformation to increase the research activity

Agenda 3: Strategy revision for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda and concludes to increase the research project of students from all departments to participate in "Vasant Avishkar" research computation.

Resolution: All members gave conformation to increase the research projects of students.

Agenda 4: To send students for district level "Avishkar" research computation.

Discussion: Research committee decided to send students for district level "Avishkar" research computation.

Resolution: All members gave conformation and approved to send the proposal.

Agenda 5: Any other relevant issues made by the IQAC committee.

Discussion: Research committee discusses the issues made by IQAC committee to conduct various activities under research committee.

Resolution: All members gave conformation and approved to conduct different activities by all departments under research committee to increase the research view in students.

(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli)

Minutes of the Meeting of 2016-17 held on 10th November 2016

Venue: Principals cabin Date: 10/11/2016

Time: 10:30 - 11:30

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Strategy for "Vasant Avishkar" research computation
- 3. To plan for the preparation of district level "Avishkar" computation

Members Present:

- 1. Dr. R. R. Kumbhar, Principal
- 2. Dr. C. G. Patil, Chairman, College Research Committee
- 3. Dr. V. Y. Pawar, Member
- 4. Dr. S. S. Patil, Member
- 4. Dr. B. T. Kanse, Member
- 5. Dr. T. K. Badame, member

Chairman Dr. C. G. Patil welcomes all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman Dr. C. G. Patil reads the minutes and action taken report on it of earlier meeting.

Resolution: All members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Strategy for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda to make a plan for successful arrangement of "Vasant Avishkar" research computation.

Resolution: All members gave conformation to for the committee made for the arrangements of "Vasant Avishkar" program.

Agenda 3: To plan for the preparation of district level "Avishkar" computation.

Discussion: Research committee discusses this agenda and decide plane for the preparation of students research projects for district level "Avishkar" computation.

Resolution: All members gave conformation of the formed committees for "Avishkar".

Minutes of the Meeting of 2017-18 held on 10th July 2017

Venue: Principals cabin

Date: 10/07/2017

Time: 11:00 - 12:00

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Planning of research activities of the college and departments
- 3. Strategy revision for "Vasant Avishkar" research computation
- 4. To send proposal for conference/workshop
- 5. Any other relevant issues made by the IQAC committee

Members Present:

- 1. Dr. R. R. Kumbhar, Principal
- 2. Dr. S. R. Jadhav, Chairman, College Research Committee
- 3. Dr. V. Y. Pawar, Member
- 4. Dr. B. T. Kanse, Member
- 5. Dr. T. K. Badame, member
- 6. Mr. M. D. Patil

Chairman Dr. S. R. Jadhav welcomes all members and started discussions on agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman Dr. S. R. Jadhav reads the minutes and action taken report on it of earlier meeting.

Resolution: All members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Planning of research activities of the college and departments.

Discussion: Research committee discusses this agenda and concludes to increase the research publication as well as participation in conference and workshop to increase the research activity by all departments.

Resolution: All members gave conformation to increase the research activity

Agenda 3: Strategy revision for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda and concludes to increase the research project

of students from all departments to participate in "Vasant Avishkar" research computation.

Resolution: All members gave conformation to increase the research projects of students.

Agenda 4: To send proposal for conference/workshop.

Discussion: Research committee decided to send proposal for conference/workshop.

Resolution: All members gave conformation and approved to send the proposal.

Agenda 5: Any other relevant issues made by the IQAC committee.

Discussion: Research committee discusses the issues made by IQAC committee to conduct various activities under research committee.

Resolution: All members gave conformation and approved to conduct different activities by all departments under research committee to increase the research view in students.

(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli)

Minutes of the Meeting of 2017-18 held on 4th December 2017

Venue: Principals cabin

Date: 04/12/2017

Time: 11:30 - 12:30

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Strategy for "Vasant Avishkar" research computation
- 3. To send students for district level "Avishkar" research computation.

Members Present:

- 1. Dr. R. R. Kumbhar, Principal
- 2. Dr. S. R. Jadhav, Chairman, College Research Committee
- 3. Dr. V. Y. Pawar, Member
- 4. Dr. B. T. Kanse, Member
- 5. Dr. T. K. Badame, member
- 6. Dr. A. N. Ambhore, Member

Chairman Dr. S. R. Jadhav welcomes all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman Dr. S. R. Jadhav reads the minutes and action taken report on it of earlier meeting.

Resolution: all members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Strategy for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda to make a plan for successful arrangement of "Vasant Avishkar" research computation.

Resolution: all members gave conformation to for the committee made for the arrangement of "Vasant Avishkar" program.

Agenda 3: To send students for district level "Avishkar" research computation.

Discussion: Discussion: Research committee discuss to send students for district level "Avishkar" research computation and decided that the students which gave the numbers in "Vasant avishkar" research computation are send for "Avishkar" computation.

Resolution: All members gave conformation to send students to "Avishkar" computation.

(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli)

Minutes of the Meeting of 2018-19 held on 16th July 2018

Venue: Principals cabin

Date: 16/07/2018

Time: 11:00 - 12:00

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Planning of research activities of the college and departments
- 3. Strategy revision for Vasant Avishkar research computation
- 4. To send proposal for district level "Avishkar" research computation.
- 5. To send proposal for conference/workshop
- 6. Any other relevant issues made by the IQAC committee

Members Present:

- 1. Dr. R. R. Kumbhar, Principal
- 2. Dr. A. N. Ambhore, Chairman, College Research Committee
- 3. Dr. V. Y. Pawar, Member
- 4. Dr. S. R. Jadhav, Member
- 5. Dr. B. T. Kanse, Member
- 6. Dr. T. K. Badame, member

Chairman, Dr. A. N. Ambhore welcomes all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman, Dr. A. N. Ambhore reads the minutes and action taken report on it of earlier meeting.

Resolution: all members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Planning of research activities of the college and departments.

Discussion: Research committee discusses this agenda and concludes to increase the research publication as well as participation in conference and workshop to increase the research activity by all departments.

Resolution: all members gave conformation to increase the research activity

Agenda 3: Strategy revision for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda and concludes to increase the research project

of students from all departments to participate in "Vasant Avishkar" research computation.

Resolution: All members gave conformation to increase the research projects of students.

Agenda 4: To send proposal for district level "Avishkar" research computation.

Discussion: Research committee decided to send proposal to university for conducting district level "Avishkar" research computation in our college.

Agenda 5: To send proposal for conference/workshop.

Discussion: Research committee decided to send proposal for conference/workshop.

Resolution: All members gave conformation and approved to send the proposal.

Agenda 6: Any other relevant issues made by the IQAC committee.

Discussion: Research committee discusses the issues made by IQAC committee to conduct various activities under research committee.

Resolution: All members gave conformation and approved to conduct different activities by all departments under research committee to increase the research view in students.

Rel (Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli)

Minutes of the Meeting of 2018-19 held on 12th November 2018

Venue: Principals cabin

Date: 27/09/2011

Time: 11:30 - 12:30

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Strategy for "Vasant Avishkar" research computation
- 3. To plan for the arrangement of district level "Avishkar" computation.
- 4. To plan for the arrangement of multidisciplinary International conference.

Members Present:

- 1. Dr. R. R. Kumbhar, Principal
- 2. Dr. A. N. Ambhore, Chairman, College Research Committee
- 3. Dr. V. Y. Pawar, Member
- 3. Dr. S. R. Jadhav, Member
- 4. Dr. B. T. Kanse, Member
- 5. Dr. T. K. Badame, member

Chairman, Dr. A. N. Ambhore welcome all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman, Dr. A. N. Ambhore reads the minutes and action taken report on it of earlier meeting.

Resolution: all members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Strategy for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda to make a plan for successful arrangement of "Vasant Avishkar" research computation.

Resolution: all members gave conformation to for the committee made for the arrangement of "Vasant Avishkar" program.

Agenda 3: To plan for the arrangement of district level "Avishkar" computation.

Discussion: Research committee discusses this agenda and made different committees for the successful arrangement of district level "Avishkar" computation.

Resolution: All members gave conformation of the formed committees for "Avishkar".

Agenda 4: To plan for the arrangement of multidisciplinary International conference.

Discussion: Research committee discusses this agenda and made different committees for the successful arrangement conference.

Resolution: All members gave conformation of the formed committees for conference.

(Dr. R. R. Kumbhar) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli)

Minutes of the Meeting of 2019-20 held on 15th July 2019

Venue: Principals cabin

Date: 15/07/2019

Time: 11:30 - 12:30

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Planning of research activities of the college and departments
- 3. Planning for Vasant Avishkar research computation
- 4. Strategy for district level "Avishkar" research computation
- 5. Planning Internal research grants
- 6. Make a proposal for IPR seminar
- 7. Any other relevant issues made by the IQAC members

Members Present:

- 1. Dr. Milind S. Hujare, Principal
- 2. Dr. A. N. Ambhore, Chairman, College Research Innovation committee
- 3. Dr. V. Y. Pawar, Member
- 4. Dr. B. T. Kanse, Member
- 5. Dr. T. K. Badame, member

Chairman, Dr. A. N. Ambhore welcome all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman, Dr. A. N. Ambhore reads the minutes and action taken report on it of earlier meeting.

Resolution: all members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Planning of research activities of the college and departments.

Discussion: Research committee discusses this agenda and concludes to increase the research publication as well as participation in conference and workshop to increase the research activity by all departments.

Resolution: all members gave conformation to increase the research activity

Agenda 3: Strategy revision for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda and concludes to increase the research project of students from all departments to participate in "Vasant Avishkar" research computation.

Resolution: All members gave conformation to increase the research projects of students.

Agenda 4: Strategy for district level "Avishkar" research computation.

Discussion: Research committee decided to make a plan for the departments for the preparation of projects from students to participate in district level "Avishkar" computation.

Resolution: All members gave conformation to participate in district level "Avishkar" computation.

Agenda 5: Planning internal research grants

Discussion: Research committee decided to develop a "Research Promotion Scheme" for increasing and improving research view in teachers and students by generating internal research grant of Rs. 5000/- per project.

Resolution: All members gave conformation and approved for Research Promotion Scheme.

Agenda 6: Make a proposal for IPR seminar.

Discussion: Research committee discusses to conduct a seminar on IPR.

Resolution: All members gave conformation for making the proposal of IPR.

Agenda 7: Any other relevant issues made by the IQAC committee.

Discussion: Research committee discusses the issues made by IQAC committee to conduct various activities under research committee.

Resolution: All members gave conformation and approved to conduct different activities by all departments under research committee to increase the research view in students.

Prin. Dr. Milind S. Hujare Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).

Minutes of the Meeting of 2019-20 held on 8th November 2019

Venue: Principals cabin

Date: 08/11/2019

Time: 11:00 - 12:00

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Approval of internal research grant
- 3. Approval for "Vasant Avishkar" research computation
- 4. Approval for IPR seminar
- 5. Approval for sending students for district level "Avishkar" research computation

Members Present:

- 1. Dr. Milind S. Hujare, Principal
- 2. Dr. A. N. Ambhore, Chairman, College Research Innovation committee
- 3. Dr. V. Y. Pawar, Member
- 4. Dr. B. T. Kanse, Member
- 5. Dr. A. G. Sonawale, member

Chairman, Dr. A. N. Ambhore welcome all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman, Dr. A. N. Ambhore reads the minutes and action taken report on it of earlier meeting.

Resolution: all members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Approval of internal research grant.

Discussion: Research committee discusses this agenda and approves to release grant for the research promotion scheme.

Resolution: all members gave conformation to release the reant for research promotion scheme.

Agenda 3: Approval for Vasant Avishkar research computation.

Discussion: Research committee discusses this agenda and made different committees for the successful arrangement "Vasant Avishkar" computation.

Resolution: All members gave conformation of the formed committees for "Vasant Avishkar".

Agenda 4: Approval for IPR seminar.

Discussion: Research committee discusses this agenda to conduct the IPR seminar by chemistry department.

Resolution: All members gave conformation and approve for conducting IPR seminar.

Agenda 5: Approval for sending students for district level "Avishkar" research computation.

Discussion: Discussion: Research committee discuss to send students for district level "Avishkar" research computation and decided that the students which gave the numbers in "Vasant avishkar" research computation are send for "Avishkar" computation.

Resolution: All members gave conformation to send students to "Avishkar" computation.

Prin. Dr lilind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).

Minutes of the Meeting of 2020-21 held on 9th July 2020

Venue: Principals cabin

Date: 09/07/2020

Time: 11:00 - 12:00

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Planning of research activities of the college and departments
- 3. Planning for "Vasant Avishkar" research computation
- 4. Planning Internal research grants
- 5. Any other relevant issues made by the IQAC members

Members Present:

- 1. Dr. Milind S. Hujare, Principal
- 2. Dr. A. N. Ambhore, Chairman, College Research Innovation committee
- 3. Dr. B. T. Kanse, Member
- 4. Dr. A. G. Sonawale, Member
- 5. Dr. A. S. Wagh, member

Chairman, Dr. A. N. Ambhore welcome all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman, Dr. A. N. Ambhore reads the minutes and action taken report on it of earlier meeting.

Resolution: all members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Planning of research activities of the college and departments.

Discussion: Research committee discusses this agenda and concludes to increase the research publication as well as participation in conference and workshop to increase the research activity by all departments.

Resolution: all members gave conformation to increase the research activity

Agenda 3: Strategy revision for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda and concludes to increase the research project of students from all departments to participate in "Vasant Avishkar" research computation.

Resolution: All members gave conformation to increase the research projects of students.

Agenda 4: Planning internal research grants

Discussion: Research committee decided to develop a "Research Promotion Scheme" for increasing and improving research view in teachers and students by generating internal research grant of Rs. 5000/- per project.

Resolution: All members gave conformation and approved for Research Promotion Scheme.

Agenda 5: Any other relevant issues made by the IQAC committee.

Discussion: Research committee discusses the issues made by IQAC committee to conduct various activities under research committee.

Resolution: All members gave conformation and approved to conduct different activities by all departments under research committee to increase the research view in students.

Prin. Dr. Milind S. Hujare Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).

Minutes of the Meeting of 2020-21 held on 18th November 2020

Venue: Principals cabin

Date: 18/11/2020

Time: 11:30 - 12:30

Agenda of the Meeting:

- 1. Conformation of minutes of earlier meeting
- 2. Approval of internal research grant
- 3. Approval for "Vasant Avishkar" research computation

Members Present:

- 1. Dr. Milind S. Hujare, Principal
- 2. Dr. A. N. Ambhore, Chairman, College Research Innovation committee
- 3. Dr. B. T. Kanse, Member
- 4. Dr. A. G. Sonavale, Member
- 5. Dr. A. S. Wagh, member

Chairman, Dr. A. N. Ambhore welcome all members and started discussions on Agenda points.

Agenda 1: Conformation of minutes of earlier meeting

Discussion: Chairman, Dr. A. N. Ambhore reads the minutes and action taken report on it of earlier meeting.

Resolution: all members gave conformation to minutes and expressed satisfaction on action taken report.

Agenda 2: Approval of internal research grant.

Discussion: Research committee discusses this agenda and approves to release grant for the research promotion scheme.

Resolution: all members gave conformation to release the reant for research promotion scheme.

Agenda 3: Approval for "Vasant Avishkar" research computation.

Discussion: Research committee discusses this agenda and made different committees for the successful arrangement "Vasant Avishkar" computation.

Resolution: All members gave conformation of the formed committees for "Vasant Avishkar".



PDVP Mahavidyalaya, Tasgaon



Ref.No. : PDVPMT /

Date :

RESEARCH PROMOTION SCHEME 2019-20

| Sr. | Name of PI and Students | Title of Project | Seed money Rs. |
|-----|---|---|-------------------|
| 1. | Dr. AmolGowardhanSonawale. 1. Miss SutarHarshada Suresh 2. Miss MulaniReshmaLalasaheb 3. Miss Zambare Swati Mansing 4. Miss PatilRutuja Ramesh | "Grape Crop Value Chain Analysis Of Marketing System In Tasgaon Taluka." | 5000 |
| 2. | Dr. BanduJayshingKadam. 1. Miss. SupriyaRavsahebPatil. 2. Miss. Poonam BalasoPatil. 3. Mr. Vinod JalindarSawant. 4. Mr. SushantSubhashChavan. 5. Mr. Rahul MurlidharShinde. | ''तासगाव तालुक्यातील वंचित घटकांच्या मानवी विकास निर्देशांकांचा अभ्यास'' | 5000 |
| 3. | Dr. Haji Dawalsahebnadaf. 1. Mr. Ashraf ayubmujawar. 2. Miss. Pooja JayramJadhav. 3. Miss. Nikita Vasudevkoli. 4. Miss. Shubhangiashok Mail. 5. Miss. NamiraInaytullaMulani. | "A Study Of Local History And Synergetic Culture In Tasgaon Taluka." | 5000 |

Form



ncipal Padmabhushan Dr. Vasantraodada Patil Mahavidyakaya, Tasgaon, (Sangli)



Ref.No. : PDVPMT /

Date :

Padmabhushan Dr. Vasantraodada Patil

Mahavidyakaya, Tasgaon, (Sangli)

RESEARCH PROMOTION SCHEME 2020-21

| Sr. No. | Name of PI and Students | Title of Project | Seed money Rs. |
|------------|--|--|----------------------|
| 1. | Dr. BanduJayshingKadam. Mr. Ritual Ramesh Shinde. Mr. ChandrakantDhanji Mane. Mr. OmkarJanardanPatil. Mr. Prashant Vasant Patil. Mr. SwapnilTukaramJamdade. | ''तासगाव तालुक्यातील सर्वसमावेशक ग्रामीण विकास ाचा अभ्यास" | 5000 |
| 2. | Dr. Pratiksha Suresh Bhandare. 1. Mr. JadhavSuhasShivaji. 2. Miss BodakeSakshi Shankar 3. Miss KamblePratikshaRavsaheb 4. Miss TaurShradha Kailas | "Diversity Of Avifauna In Local And Peripheral Ecosystems Of TasgaonTashil Of Sangli District, Maharshtra, India." | 5000 |
| 3. | Dr. SachinkumarKisanShinde. 1. Mr. SohebShahitJamdar. 2. Mr.RushikeshrajendraKshirsagar. 3. Mr.AudumberDuryodhanKodag. 4. Mr. Vijay KrushnaSankpal. | "Study Of Raisin Production In Tasgaon Tehsil." | 5000 |

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*

Grants received from Government and non-governmental agencies for research projects, Fellowships in the institution during 5 yrs.

| Sr. | Name of the Project/ | Name of the | Department | Year of | Amount | Duration | Name of the Funding | Туре |
|-----|---------------------------|---------------------|--------------|---------|------------|----------|-----------------------|------------------|
| No. | Endowments, Chairs | Principal | of Principal | Award | Sanctioned | of the | Agency | (Government/non- |
| | | Investigator/Co- | Investigator | | | project | | Government) |
| | | investigator | | | | | | |
| * | Department of Scie | nce and Techno | ology | | | | | |
| 1 | Functionalized Transition | Miss. Patil Seema | Chemistry | 2020-21 | 21.17 | 3 yrs | Department of Science | Govt. of India |
| | Metal catalysts for cross | Pandurang (Dr. | | | | | and Technology | |
| | coupling Reactions | Kumbhar Arjun | | | | | KIRAN DIVISION | |
| | | S.) | | | | | Women Scietist | |
| | | | | | | | Scheme A (WOS A) | |
| 2 | Design and applications | Dr. Kumbhar | Chemistry | 2014-15 | 25 | 3 Years | DST | Government |
| | of biopolymer supported | Arjun Shankar | | | | | | |
| | palladium catalysts for | | | | | | | |
| | organic synthesis | | | | | | | |
| 3 | Fist Program | Principal, P. D. V. | Chemistry | 2016 | 50 | 5 Years | Department of Science | Government |
| | | P. Mahavidyalaya, | | | | | and Technology | |
| | | Tasgaon | | | | | | |
| * | University Grants C | ommission | | | | | | |
| | oniversity orants o | ommission | | | | | | |
| 4 | Liquid Phase Organic | Dr. Kumbhar | Chemistry | 2016-17 | 7.46 | 3 Years | UGC | Government |
| | Synthesis (LPOS) Using | Arjun Shankar | | | | | | |
| | Supported Catalysts | | | | | | | |
| 5 | The theme of Oneness | Prof. A. R. Patil | English | 2015-16 | 1.65 | 2 Years | UGC | Government |
| | for Humanity and | | 0 | | | | | |
| | Culture in Alan Paton's | | | | | | | |
| | Selected Novels | | | | | | | |
| 6 | A study of performance | Prof. M. D. Patil | Commerece | 2012-13 | 1 | 2 Years | UGC | Government |
| | Evaluation of Tasgaon | | | | | | | |
| | Urban Co-operative Bank | | | | | | | |
| | in Tasgaon Tahashil | | | | | | | |

| 7 | N. D. Mahanoranchya Ajintha Khandkavyavar Adharit Chitrapat | Dr. Badame T. K. | Marathi | 2014-15 | 1 | 2 Years | UGC | Government | | | |
|----|---|---------------------------------|-----------|-------------------------------|------|---------|---|------------|--|--|--|
| * | CSIR | | | | | | | | | | |
| 8 | CSIR Senior Research Fellow | Mr. Sachinkumar Kisan Shinde | Chemistry | 1/02/2018 to 31/01/2019 | 3.56 | 1 year | CSIR | Government | | | |
| 9 | CSIR Senior Research Fellow | Mr. Sachinkumar Kisan Shinde | Chemistry | 1/2/2017 to 31/01/2018 | 3.56 | 1 year | CSIR | Government | | | |
| 10 | CSIR Senior Research Fellow | Mr. Sachinkumar Kisan Shinde | Chemistry | 1/02/2016 to 31/01/2017 | 3.56 | 1 year | CSIR | Government | | | |
| * | An Autonomous Institute of Govt. of Maharashtra | | | | | | | | | | |
| 11 | Chatrapati Shahu Maharaj National Research Fellowship (CSMNRF- 2019) | Ashutosh Arjun Jagdale | Chemistry | 09-11-2019 | 4.78 | 5 yrs | Chatrapati Shahu Maharaj Research Training and Human Development Institute (SARTHI) An Autonomous Institute of Govt. of Maharashtra (CSMNRF- 2019) | Government | | | |
| 12 | Chatrapati Shahu Maharaj National Research Fellowship (CSMNRF- 2019) | Rupesh Chandrakant Patil | Chemistry | 09-11-2019 | 4.78 | 5 yrs | Chatrapati Shahu Maharaj Research Training and Human Development Institute (SARTHI) An Autonomous Institute of Govt. of Maharashtra (CSMNRF- 2019) | Government | | | |

| 13 | Chatrapati Shahu Maharaj National Research Fellowship (CSMNRF- 2019) | Ashutosh Arjun Jagdale | Chemistry | 09-11-2019 | 4.13 | 5 yrs | Chatrapati Shahu Maharaj Research Training and Human Development Institute (SARTHI) An Autonomous Institute of Govt. of Maharashtra (CSMNRF- 2019) | Government |
|----|--|-----------------------------|------------|---------------------|------|---------|---|---|
| 14 | Chatrapati Shahu Maharaj National Research Fellowship (CSMNRF- 2019) | Rupesh Chandrakant Patil | Chemistry | 09-11-2019 | 4.13 | 5 yrs | Chatrapati Shahu Maharaj Research Training and Human Development Institute (SARTHI) An Autonomous Institute of Govt. of Maharashtra (CSMNRF- 2019) | Government |
| 15 | Mahatma Jyotiba Phule Research Fellowship- 2021 (MJRF-2021) | SHASHIKANT ASHOK DAMATE | Chemistry | 18th October2019 | 0.68 | 5 yrs | Mahatma Jyotiba Phule Research and Training Institute (MAHAJYOTI), Nagpur Government of Maharashtra | Government |
| * | Shivaji University, P | Colhapur (Initiat | tion Resea | rch Scheme | | · | • | • |
| 16 | To Assess the Extracts of Vitis Vinifera L., Leaves On Vasculogenesis & Angiogenesis by the Chick Chlorioallantoic Membrane Assay | Dr. P. B. Teli | Zoology | 2019-20 | 1 | 2 Year | Shivaji University, Kolhapur (Initiation Research Scheme) | Shivaji University, Kolhapur (Initiation Research Scheme) |
| 17 | Utilization of Bio-based material for organic transformations | Dr. Megha U. Patil | Chemistry | 2018-19 | 0.8 | 3 Years | Shivaji University, Kolhapur | University |
| 18 | A clinical study of the economic and social status of single women in Tasgaon taluka | Dr. Bandu Jaysing Kadam | Economics | 2018-19 | 0.2 | 6 Month | Shivaji University, Kolhapur | Government |

| 19 | A progress of organic farming in Satara district (2005-2015) | Dr, Arjun Shivaji Wagh | Geography | 2018-19 | 0.55 | 2 years | Shivaji University, Kolhapur | University | | | |
|----|---|---------------------------|-----------|---------|------|----------|---------------------------------|----------------|--|--|--|
| * | Institutional Research Promotion Scheme | | | | | | | | | | |
| 20 | Diversity of Avifauna in Local and Peripheral Ecosystem of Tasgaon Tahashil | Dr. Bhandare P. S. | Zoolgy | 2020-21 | 0.05 | 6 months | P. D. V. P. College, Tasgaon | Institutional | | | |
| 21 | Study of rural developent of Tasgaon Tahashil | Dr. Kadam B. J | Economics | 2020-21 | 0.05 | 6 Month | P. D. V. P. College, Tasgaon | Institutional | | | |
| 22 | Study of Human Development Indicators of deprived sections in Tasgaon taluka | Dr. Bandu J. Kadam | Economics | 2019-20 | 0.05 | 1 year | P. D. V. P. College, Tasgaon | Institutaional | | | |
| 23 | A Study of Local History and Syncretic Culture in Tasgaon Taluka | Dr. Nadaf H. D. | History | 2019-20 | 0.05 | 1 year | P. D. V. P. College, Tasgaon | Institutaional | | | |
| 24 | Grape Crop Value Chain Analysis Of marketing System In Tasgaon Taluka | Dr. Sonawale A. G. | Commerce | 2019-20 | 0.05 | 1 year | P. D. V. P. College, Tasgaon | Institutaional | | | |



Prin. Dr. Milind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).

Total Research Grants from 2016 to 20121

| Total Grant in Lacks | Funding Agency |
|----------------------|----------------|
| 96.17 | DST |
| 11.11 | UGC |
| 10.68 | CSIR |
| 17.82 | SARTHI |
| 0.68 | MAHAJYOTI |
| 2.55 | SUK |
| 0.25 | Institutional |
| 139.26 | Total |





Research Projects Sanction Letters 2020-21

No.SR/WOS-A/CS-85/2018 (G) Government of India Ministry of Science & Technology Department of Science & Technology KIRAN DIVISION

Technology Bhawan New Mehrauli Road New Delhi-110016 Dated 18 11 2020

ORDER

Sub: Financial approval of the project under Women Scientist Scheme A (WOS-A) entitled "Functionalized transition metal catalysts for cross coupling reactions."

PI: Ms SeemaPandurang, Department of Chemistry, Padmabhushan Dr VasantraodadaPatil College, Tasgaon, Sangli-416 312, Maharashtra.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of Rs 21,17,808/- (Rupees Twenty One Lakh Seventeen Thousand Eight Hundred Eight only) for a duration of 3 years. The detailed breakup of the grant for General (Rs. 18,17,808/-)as well as Capital (Rs 3,00,000/) Components are given below:

| SI. | Heads | 1 st Year | | 2 nd Year | 3rd Year | Total |
|--------|--|----------------------|------------|----------------------|------------|-------------|
| NO. | and the state of the state of the | 6 Months | 6 Months | | 1000 8400 | |
| A. | Non-Recurring (Capital Items) | COLLES THE | 1-01-0 | a gater | Artenar | ter alloca |
| 10 may | Equipments. GC. HPLC. flow reactor, rotavapour, flash chromatography | 3.00,000/- | 0 | | | 3.00.000/- |
| В, | Recurring(General) | - | | 112 22 | | COLUMN DAY |
| | Fellowship for MSc@ Rs. 31.000pm+HRA@8%- | 2,00,880/- | 2.00,880/ | 4.01,760/- | 4,01,760/- | 12,05,280/- |
| | Consumables | 1.00.000/- | 0 | 1.00.000/- | 1.00.000/- | 3.00.0004 |
| Juli . | Contingencies | 20,000/- | 0 | 20,000/- | 20.000/- | 60.000/- |
| | Travel | 0 | 20,000/- | 20.000/- | 20.000/- | 60.000/- |
| C. | Overhead@10% | 64,176/- | 0 | 64,176/- | 64.176/- | 1.92.528/- |
| D, | Total of Recurring Grant (B+C) | 3,85,056/- | 2,20,880/- | 6,05,936/- | 6,05,936/- | 18,17,808/- |
| E. | GRAND TOTAL (A+D) | 6,85,056/- | 2,20,880/- | 6,05,936/- | 6,05,936/- | 21,17,808/- |

Sanction of the grant is subject to the conditions as detailed in website www.online-wosa.gov.in

3 The sanction of the President is also accorded to the release of Rs 3,85,056/- (Rupees Three Lac Eighty Five Thousand Fifty Six only) grant for a period of six months under "General Component" to Principal, PadmabhushanDr.Vasantraodada Patil College, Tasgaon, Sangli-416 312, Maharashtra being the first installment of the grant for the year 2020-2021 for implementation of the above mentioned project.

This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & technology, financial year wise Utilization Certificate (UC) in the proformal prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure utilization certificate and project completion report within one year from the scheduled date of completion of the project.

5 The grantee organization will have to enter & upload the Utilization Certificate in the PEMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PEMS.


If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released

.2.

The grant-in-aid being released is subject to the condition that. (a)

A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/ Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.

While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017 Subsequent release of grant under the project shall be considered 8

The Grantee Institute (GI) will maintain separate audited as per GFR 2017 Rule 230 (8) account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F/Y 2020-2021 and onwards interest and other earnings, against released Grant shall be remitted to Consolidated Fund of India, (through Non-Tax Receipt Portal (NTRP), i.e.www.bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with statement of expenditure/utilization certificate for considering subsequent release of grant/closure of project accounts.GI should also follow Rule 230 (17) of GFR 2017concerning to reservation of SC/ST/OBC, if applicable. 0

DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST 10.

The Principal Investigator under Women Scientist Scheme is not permitted to withdraw any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding 71

The account of the grantee organization shall be open to inspection by the sanctioning authority. and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST). whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial 12

Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the 13.

Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017. 14

The expenditure involved is debitable to Demand No.87. Department of Science & Technology for the year 2020-21 3425

Other Scientific Research (Major Head) 60

Others (Sub-Major Head) 60,200

15

Assistance to other Scientific Bodies (Minor Head) 68

Science and Technology Institutional and Human Capacity Building (Sub Head) 01

DishaProgramme for Women in Science

68 01 31 Grants-in-aid General for the year 2020-2021(Voted)

(Previous: DishaProgramme for Women in Science 3425 60 200 55 01 31)

The amount of Rs 3,85,056/- (Rupees Three Lac Eighty Five Thousand Fifty Six only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed Principal, PadmabhushanDr.VasantraodadaPatil College, Tasgaon, Sangli-416 312, Maharashtra.The bank details for electronic transfer of funds through RTG.

| Institute name | PadmabhushanDr VasantraodadaPatil College, Tasgaon, Sangli |
|----------------|--|
| Bank Name | Bank of Maharashtra |
| Account Number | 20123531807 |
| Branch | Tasgaon, Sangli, Maharashtra |
| IFSC code | MAHB0000282 |

Goods (consumables/equipment) available in GeM portal are to be procured mandatonly 16 online through GeM and PI will also follow DoE's guidelines for incurring expenditure under the different sub-head.

17 As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 614 in the register of grants maintained in the KIRAN Division for scheme (KIRAN: WOS-A).

18. This issues with the concurrence of IFD Vide their Concurrence Dy No)/607/2020-21 dated 18

The Grantee Institution is advised to start using EAT module and next release will be made only after mapping and following EAT modules by the grantee institution

(Vandana Singh) Scientist-E

Copy for information and necessary action to -

- 1 The Director of Audit (CW & M-II), AGCR Building, IP Estate, New Delhi-110 002 2 Copy with two spare copies of the sanction to the Drawing & Disbursing Officer, DST, Cash
- 3 The Principal, Padmabhushan Dr.Vasantraodada Patil College, Tasgaon, Sangli-416 312,
- 4 Dr Arjun. ShankarKumbhar. Assistant Professor Department
- PadmabhushanDr VasantraodadaPatil College, Tasgaon, Sangli-416 312, Maharashtra. Chemistry.
- 5 MsSeemaPandurang, Department of Chemistry, PadmabhushanDr VasantraodadaPatil College: Tasgaon, Sangli-416 312, Maharashtra. 6. Pay & Accounts Officer, DST, New Delhi
- 7 IFD, DST, New Delhi.
- 8 Sanction Folder

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(Vandana Singh) Scientist-E

-3-



Ref. No. : PDVPMT / By hand / 2020 - 2021

Date: 23/02/2021

Dr. Bhandare Pratiksha Suresh, Dept. of Zoology, P.D.V.P. Mahavidyalaya, Tasgaon, Dist- Sangli-416312 Dear Sir,

I am pleased to inform you that the College Research Committee has accepted your proposal for research project entitled "Diversity of Avifauna in local and Peripheral ecosystem of Tasgaon Tahsil of Sangli District, Maharashtra, India" under Research Promotion Scheme. You are further instructed that to give acceptance regarding the same and to complete the research project within six months from the sanction date.

Sectioned amount of the given is Rs.5000/ (Five thousand Rs only)

Brundere

Lammand

(Dr. Milind S. Hujare) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)



Ref.No. : PDVPMT/B> hand/2020-2021

Date: 23/02/2021

To, Dr. Bandu J. Kadam Dept. of Economics, P.D.V.P. Mahavidyalaya, Tasgaon, Dist- Sangli-416312 Dear Sir,

I am pleased to inform you that the College Research Committee has accepted your proposal for research project entitled "तासगांव तालुक्यातील सर्वसमावेशक ग्रामिण विकासाचा अभ्यास" under Research Promotion Scheme. You are further instructed that to give acceptance regarding the same and to complete the research project within six months from the sanction date.

Sectioned amount of the given is Rs.5000/ (Five thousand Rs only)

Aminy (Dr. Milind S incipal

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)

present



Government of Maharashtra Other Backward Bahujan Welfare Department, Maharashtra State, Mumbai. Mahatma Jyotiba Phule Research and Training Institute (Mahajyoti), Nagpur

Address: Dr.Babasaheb Ambedkar Samajik Nyay Bhavan, 3rd Floor, Shraddhanand Peth, Ambazari Road, Nagpur -440022 दूरध्वनी क्र. 0712- 2959381 CIN No. U85300PN2019NPL187405 ई-मेल: <u>mahajyotiskill@gmail.com</u>

Outward No. MAHAJYOTI/Nag./Fellowship/2021-22/1042 (408)

Date: 17/01/2022

Fellowship Award letter

To,

SHASHIKANT ASHOK DAMATE

Subject: Mahatma Jyotiba Phule Research Fellowship-2021 for OBC, VJNT and SBC candidates to pursue Ph.D. degree.

Dear Candidate,

With reference to your application for Mahatma Jyotiba Phule Research Fellowship-2021 for OBC, VJNT and SBC candidates to pursue Ph.D. degree. I am happy to inform you that, Mahatma Jyotiba Phule Research and Training Institute (MAHAJYOTI), Nagpur has selected you for Mahatma Jyotiba Phule Research Fellowship-2021. (here in after referred to as MJRF-2021) 2. The financial assistance under the fellowship is awarded to you for the research subject mentioned in your registration letter submitted by you and your compliance to the terms & conditions of MAHAJYOTI.

3. You will eligible for financial assistance, relevant to you, as given below w.e.f. 18th October 2021 under MJRF-2021:

| Sr. No. | Item | | | | | Financial Assistance |
|---------|-----------|----|------------|------|-----|------------------------|
| 1. | Amount | of | Fellowship | (For | All | Rs.21,000/- per month. |
| | subjects) | | | | | |

4. Please note that this award letter is being issued on the basis of photocopies of the documents submitted through Management Information System (MIS) for Fellowship furnished by you to MAHAJYOTI.

5. Please note that, the fellowship amount as per your eligibility shall be disbursed by direct bank transfer (DBT) to your saving bank account provided in MIS.

6. You are required to submit progress report in stipulated time period otherwise fellowship amount will not disburse till completion. You are required to submit up-gradation certificate on time to time basis. You are required to submit copy of thesis, degree certificate, mark-sheet after Ph.D. award.

7. Any request or representation for any retrospective financial assistance will not be entertained.

8. Any other financial assistance other than fellowship amount will not be entertained.

Please note that this award letter is provisional and will be treated as valid, subject to the genuines of the documents submitted by you.

We hope that this fellowship will assist and help you financially and academically to conduct and complete the research on the subject you have selected and develop yourself over the years as an excellent researcher.

MAHAJYOTI wishes you all the best in this endeavor.

With regards,

Pradipkumar Dange, IAS Managing Director, Mahatma Jyotiba Phule Research and Training Institute (MAHAJYOTI), Nagpur.

Research Projects Sanction Letters 2019-20



Ref No. : SU/C&U.D.Section/Prop. No.: 115/ 1935 Date: -

To,

Dr. Parashuram Basappa Teli,

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. - Sangli.

Sub: Your project entitled, "Influence of extract of dried fruit and terminal leaves of vitis vinifera L. on Cam Angiogenesis" Ref: Our Office Circular No: SU / C.&U.D. Section/ UGK/ 144, dt. 23/5/2019.

Sir / Madam,

With reference to your application for financial assistance for scheme under Research Initiation Scheme-2019-2020, I am directed to inform you that the research project entitled "Influence of extract of dried fruit and terminal leaves of vitis vinifera L. on Cam Angiogenesis" has been accepted for the financial support under the scheme for the period of two years. The total grant for the projects will be ₹.100000/- . The first installment (i.e.advance) of ₹.90000/-.

The Details of the funds sanctioned. :

| Sr | | Amou | Grant released | | |
|----|---------------------------|----------------------|----------------------|------------|-------------------------|
| No | Item | 1 st Year | 2 nd Year | Total | as First installment |
| A) | Recurring | | | | |
| | 1) Books and Journals | ₹.0/- | ₹.0/- | ₹.0/- | ₹.0/- |
| | 2) Hiring Services | ₹.0/- | ₹.0/- | ₹.0/- | ₹.0/- |
| | 3) Field Work and Travel | ₹.2500/- | ₹.2500/- | ₹.5000/- | ₹.2500/- |
| | 4) Chemical and Glassware | ₹.5000/- | ₹.5000/- | ₹.10000/- | ₹.5000/- |
| | 5) Contingency | ₹.2500/- | ₹.2500/- | ₹.5000/- | ₹.2500/- |
| B) | Non-recurring | | | | |
| | *Equipment | ₹.80000/- | ₹0./- | ₹.80000/- | ₹.80000/- |
| | Total | ₹.90000/- | ₹.10000/- | ₹.100000/- | ₹.90000/- |

* Name of the Equipment :Microphotography Unit, Cryostat.

Once the Project grant is approved. No Chages can be made to the funding. Thanking you,

P D V P Mahavidyalaya Tasgaon 021 Inword No. Date -File No.

Yours faithfully,

Deputy Registrar, **Colleges and University Development Section** Shivaji University, Kolhapur

Encl. :- As above Copy to:

Account (P.G. Bill) Section

The Head/ Principal, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, 1 COPY to JUSE anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos 1 COPY to puse anch can be of Ambhos Tasgaon, Dist. - Sangli..



Ref.No. : PDVPMT/ 2019-20 / Bx Hand

Date: 12/12/2019

To,

Dr. B. J. Kadam Dept. of Economics P. D. V. P. Mahavidyalaya, Tasgaon. Dist. Sangli-416312

Dear sir,

I am pleased to inform you that, the College Research committee has accepted your proposal for research project entitled "तासगाव तालुक्यातील वंचित घटकांच्या मानवी विकास निर्देशकांचा अभ्यास" under Research Promotion Scheme. You are further instructed that to give acceptance regarding the same and to complete the project within six month from the sanction date. Sectioned amount of the given project is Rs 5000/- (Five thousand Rs only)

ANNIMMAN

(Dr. Milind S. Hujare) Principal Padmabhushan Dr Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.)



" ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार" - शिक्षणमहर्षी डॉ. वापूजी साळुंखे Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA TASGAON, Dist. Sangli, Pin 416 312 ☎ STD : 02346- 250 665, 250 575 FAX : 250575 • Affiliated to Shivaji University, Kolhapur • IS0 - 9001:2015 E-mail:san.pdvpm.tas@gmail.com Website : www.pdvpmtasgaon.edu.in

+Established Year : June 1962 + P. B. No. : 14 + Jr. College No. : J22-10-001 + Sr. College Code No.: SVAC/4 Jr.: C-8

| Shikshanmaharshi Dr. Bapuji Salunkhe BA. BT.D. Lin. FOUNDER | Hon. Chandrakant (Dada) Patil PRESIDENT B.Com. Minister of Revenue, Public Works Govt. of Maharashtra | Prin. Abhaykumar Salunkhe M.A CHAIRMAN | Prin. Mrs. Shubhangi Gawade ^{M.Sc. B.Ed.} SECRETARY | Dr. Milind S. Hujare M Sc., Ph. D PRINCIPAL | A Contraction of the |
|--|--|--|--|---|----------------------|
| | Corts of monormality of | | | and the second se | - |

Ref. No. : PDVPMT/ 2019 - 20/ By Hand

Date: 12/12/2019

To,

Dr. H. D. Nadaf

Dept. of History

P. D. V. P. Mahavidyalaya, Tasgaon.

Dist. Sangli-416312

Dear sir,

I am pleas@ck to inform you that, the College Research committee has accepted your proposal for research project entitled "A Study of Local History and Synergetic Culture in Tasgaon Taluka"under Research Promotion Scheme. You are further instructed that to give acceptance regarding the same and to complete the project within six month from the sanction date.

Sectioned amount of the given project is Rs 5000/- (Five thousand Rs only)

Hummmy

(Dr. Milland S. Hujare) Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.)



NAAC Accredited '8"" (2.76)

 *** ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार'' – शिक्षणमहर्षी डॉ. बापूजी साळुंखे

 Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

 PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA

 TASGAON, Dist. Sangli, Pin 416 312 室 STD : 02346- 250 665, 250 575 FAX : 250575

 • Affiliated to Shivaji University, Kolhapur •

 ISO - 9001:2015

 E-mail:san.pdvpm.tas@gmail.com

 VEstablished Year : June 1962 • P. B. No. : 14 • Jr. College No. : J22-10-001 • Sr. College Code No.: SMAC/4 X : C-8

| Shikshanmaharshi Ir. Bapuji Salunkhe BA, BT D. Lm. FOUNDER Hon. Chandrakant (Dada) Pati PRESIDENT B.Com Minister of Revenue, Public Works Govt. of Maharashtra | Prin. Abhaykumar Salunkhe MA CHAIRMAN | Prin. Mrs. Shubhangi Gawade M.Sc. B. Ed. SECRETARY | Dr. Milind S. Hujare M.Sc., Ph. D PRINCIPAL |
|--|---|--|---|
| | No. of Concession, Name of Street, or other | | |

Ref. No. : PDVPMT/ 2019-20/ By Hand

Date: 12/12/2019

To, Dr. A. G. Sonawale Dept. of Commerce P. D. V. P. Mahavidyalaya, Tasgaon. Dist. Sangli-416312

Dear sir,

I am pleased to inform you that, the College Research committee has accepted your proposal for research project entitled "GRAPE CROP VALUE CHAIN ANALYSIS OF MARKETING SYSTEM IN TASGAON TALUKA" under Research Promotion Scheme. You are further instructed that to give acceptance regarding the same and to complete the project within six month from the sanction date.

Sectioned amount of the given project is Rs 5000/- (Five thousand Rs only)

Hannaman

(Dr. Milind S. Hujare) Principal Padmabhushan Dr Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) (O.S.)

| Estd: 1962 NAAC "A" Grade | SHIVAJI UNIVERSITY, KOLHAPUT Colleges and University Development PHONE :EPABX-2609000, 2609145 D FAX :0091-231-2691533 & 0091-231-269 Website : www.unishivaji.ac.in E-mail: गियाजी विद्यापीठ, फोल्हापुर -४१६००४ महा दुरावानी: (ईपीएबीएक्स) २६०१०००, २६०११ D फॅक्स: ००११-२३१-२६११५३३ २६०२३३३ | R-416 004 MAHARASHTRA Section 22333 stats@unishivaji.ac.in सम्दूरमहाविद्यालये व विद्यापीठ विकास ४५ २६ १३२२४ | Research Projects Sanction Letters 2018-19 |
|---|---|---|--|
| Ref No. : SU/C&U.D | Section/36/ 183 | Date: | BMAY 2019 |
| Ms. Patil Megha U Padmabhushan D Tasgaon, Sangli. | day r. Vasantraodada Patil College, | 5 | 5 2018 |

Sub: Your project entitled, "Utilization of Bio-Based material for Organic Ref : Our Office Circular No : SU / C.&U.D. Section/ UGK/ 347, dt. 11/07/2017.

Sir / Madam,

With reference to your application for financial assistance for scheme under Research Initiation Scheme-2017-2018, I am directed to inform you that the research project entitled "Utilization of Bio-Based material for Organic Transformations" has been accepted fourth been accepted for the financial support under the shceme for the period of two years (2018-2010 to 2000 / (7 Eighty (2018-2019 to 2019-2020). The total grant for the projects will be ₹.80000/- (₹. Eighty Thousand Only). The first installment (i.e.advance) of ₹.65000/- (₹. Sixty Five Thousand Only) will be released after receiving the following documents i.e. University approval letter (Change in Staff), appointment letter, Confirmation Order, Undertaking duby in the staff) of the staff of Undertaking duly signed by the P.I and Principal in the prescribed format, Acceptance letter (Annex. B), Aadhar Card Zerox, Pan Card Zerox, Passbook zerox (Joint passbook), Advance Stamp Receipt etc.,

| The | Details of the funds sanction | Amoun | sanctioned in | Rs. | Grant released |
|-----------|-------------------------------|-----------|----------------------|-----------|----------------|
| Sr. No | Item | 1st Year | 2 nd Year | Total | installment |
| A) | Recurring | | ₹ 2500/- | ₹.5000/- | ₹.2500/- |
| | 1) Books and Journals | ₹.2500/- | 7.0/- | ₹.0/- | ₹.0/- |
| | 2) Hiring Services | ₹.0/- | T.0/- | ₹.0/- | ₹.0/- |
| | 3) Field Work and Travel | ₹.0/- | (.0/- | ₹ 20000/- | 10000/- |
| | 4) Chemical and Glassware | ₹.10000/- | ₹.10000/- | T.20000/ | ₹ 2500/- |
| | 5) Contingency | ₹.2500/- | ₹.2500/- | (, 5000/- | |
| B) | Non-recurring | | 70/ | ₹ 50000/- | ₹.50000/- |
| | *Equipment | ₹.50000/- | 1.0/- | 1.00000/ | ₹ 65000/ |
| - | Total | ₹.65000/- | ₹.15000/- | t.80000/ | |

The Details of the funds sanctioned. :

Name of the Equipment Equipment : Magnetic Stirrer with Hoty plate 2 no.

Kindly submit the above documents with duly signed in prescribed format to Registrar, Shivaji University, Kolhapur, at the earliest so as to release the grant.

Thanking you,

ours faithfully,

Deputy Registrar, **Colleges and University Development Section** Shivaji University, Kolhapur

Encl. :- As above Copy to:

- Account (P.G. Bill) Section
- The Principal/Head, Padmabhushan Dr. Vasantraodaea patil Mahavidyalaya, Tasgaon satara
- Dr. P. V. Anbhule, Co-ordinator, Department of Chemistry, Shivaji University, Kolhapur.



कै. श्रीमती शारदाबाई गोविंदराव पवार अध्यासन

शिवाजी विदयापीठ, कोल्हापूर — ४१६००४ समन्वयक फोन : ९८५०६१४०१६ ऑफिस फोन : (०२३१) २६०९३४४, २६०९२३४ फॅक्स : ९१-०२३१२६९२३३३ ई मेल : bharatipatil suk@rediffmail.com/ bpt_ps@unishivaji.ac.in

Estd : 1962 NAAC 'A' Grade

8. 26 JUL 2018

2,74701. 2318

प्रा. डॉ. भारती पार्टील समन्वयक

संदर्भ : शि.वि./ कै.श्री.शा.गो.प.अ./NO 3574 ----

प्रति, डॉ. बंडू कदम. पद्मभूषण डॉ. वसंतरावदादा पाटील महाविद्यालय, तासगाव.

विषय : — संशोधन प्रकल्पाबाबत.

महोदय/महोदया,

के. श्रीमती शारदाबाई गोविंदताय पतार आधायन केंद्राम्या वतीने आपल्या 'तासगाव तालुक्यातील एकल खियांचा आर्थिक आणि सामाजिक स्थितीचा एक चिकित्सक अभ्यास' या प्रकल्पास अध्यासनाच्या वतीने मान्यता देण्यात आली आहे. तसेच सदर प्रकल्पास विद्यापीठातील कै. श्रीमती शारदाबाई गोविंदराव पवार अध्यासनाच्या वतीने <u>२. २०,०००/</u> ची तरतूद करण्यात आली आहे. तरी सदर संशोधन प्रकल्प <u>६ महि</u>न्याच्या कालावधीत पूर्ण करण्यात यावा. तसेच आपण कोणत्या तारखेपासून प्रकल्प सुरू करणार आहात ते पत्राने कळवावे. ही विनंती धन्यवाद!

कळावे.

ਤा. करम भूग - लंब्रेसार कारी देगे भूग - लंब्रेसार कारी देगे

आपली विश्वास्. भारती पार्टील प्रा. डॉ.

अमिती. सहादायई गोविद्धन प्रमार अण्यासन.
 विकारी विकारीत, जोगाल.

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SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASITTRA Colleges and University Development Section PHONE :EPABX-2609000, 2609145 II FAX :0091-231-2691533 & 0091-231-2692333 Website : www.unishivaji.ac.in E-mail: stats@unishivaji.ac.in शिवाजी विद्यापीठ, कोल्हापूर -४१६००४ महाराष्ट्र(महाविद्यालवे व विद्यापीठ विकास विभाग) दुरध्यनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५ II फॅक्स: ००९१-२३१-२६९१५३३,२६९२३३३,२६९३२९४

Ref No. : SU/C&U.D.Section/67/ 764

Date: 2 7 SEP 2019

To, Dr. Arjun Shivaji Wagh, Padmabhushan Dr. Vasantraodaea Patil Mahavidyalaya, Tasgaon Satara .

Sub. :- Grants Release order under Research Initiation Scheme 2017-2018. Sir/Madam,

With reference to above mentioned subject, I am directed to inform you that, the University authorities have approved your research proposal entitled "A Progress of Organic Farming in Satara District (2005-2015)" under Research Initiation Scheme 2017-2018.

- As per project guidelines, total grants of ₹. 55000/- has been sanctioned to your research project and out of grant ₹. 47500/- sending herewith as a first installment vide cheque bearing number 331295 dt. 19-09-2018.
- The second installment of remaining grants will be released in second year of the project, provided annual progress report is submitted by you on or before the end of the first year of the project.
- The effective date of start of the project should be the date on which grant is credited to you. The total period of the project will be for two years and under no circumstances it will be extended further.

Thanking you,

DY. WAY Encl. : As above.

10)

Yours faithfully, Deputy Registrar, Shivaji University, Kolhapur.

Copy to; The Principal/Head of the Department, Padmabhushan Dr. Vasantraodaea Patil Mahavidyalaya, Tasgaon Satara

P D V P Mahavidyalaya Tasgaon Inword No -1072 Date - 3/11/18/8 File No

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Research Projects Sanction Letters 2016-17



FD Diary No. - 11028 Dated - 14.01.2016

UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW DELHI-110002

F. No. - 43-182/2014(SR)

3 - FEB 2016

Dated :- Jan, 2016

MRP-MAJOR-CHEM-2013-14023 (OBC)

The Under Secretary (FDIII), University Grants Commission, Bahadur Shah Zafar Marg, New Delhi-110002.

> Sub.:- Release of Grants-in-aid to Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist. (Sangli) – 416 312 Maharashtra, India for the year 2015-16 under Plan in respect of Major Research Project entitled "Liquid Phase Organic Synthesis (LPOS) Using Supported Catalysts " awarded to Dr. Arjun Shankar Kumbhar , Department of CHEMISTRY, Tenure of project for 3 year(s) w.e.f. 01/07/2015.

Sir/Madam,

I am directed to convey the approval sanction of the University Grants Commission for payment of grant of Rs. 5,74,000/- (Rupees: FIVE LAKHS SEVENTY FOUR THOUSAND ONLY) as 1st instalment for the years 2015-16 towards Major Research Project to the PRINCIPAL, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist. (Sangli) – 416 312 Maharashtra, India for the Plan expenditure to be incurred during 2015-16.

| S. No. | Items | Head of Account | Amount Approved(Rs.) | Grant being Released as 1st Installment(Rs.) | Grant Already Released(Rs.) | Total Grant(Rs.) |
|-----------|--|--------------------|-------------------------|--|-----------------------------------|------------------|
| Α. | Non-Recurring | | | | 1.2.2 | |
| 1. | Books & Journals | 3(A).49(a).35 | Rs. 20,000/- | Rs. 20,000/- | | Rs. 20,000/- |
| 2. | Equipment | | Rs. 3,50,000/- | Rs. 3,50,000/- | | Rs. 3,50,000/- |
| B. | Recurring | | | | | |
| 1. | Honorium to Retd. Teacher @ Rs. 18,000/- p.m. | | Rs. 0/- | Rs. 0/- | | Rs. 0/- |
| 2. | a. Project Fellow (Non-Gate/Non NET) @ Rs. 14,000/- p.m. b. Project Fellow (Gate/NET/GPAT) @ Rs. 16,000/- p.m. Tenure - 3 year(s) | | Rs. 0/- | Rs. 0/- | | Rs. 0/- |
| 3. | Chemical/Glassware/Consumable (Raw Material & Packaging Material etc.) | 3(A).49(a).31 | Rs. 1,50,000/- | Rs. 75,000/- | | Rs. 75,000/- |
| 4. | Contingency | | Rs. 90,000/- | Rs. 45,000/- | + | Rs. 45,000/- |
| 5. | Hiring Services | | Rs. 75,000/- | Rs. 37,500/- | | Rs. 37,500/- |
| 6. | Travel / Field Work | | Rs. 30,000/- | Rs. 15,000/- | - | Rs. 15,000/- |
| 7. | Any Other | | Rs. 0/- | Rs. 0/- | | Rs. 0/- |
| 8. | Overhead Charges 10% of approved recurring Grant (Except Travel & Field Work) | | Rs. 31,500/- | Rs. 31,500/- | | Rs. 31,500/- |
| | Total (A + B) | | Rs. 7,46,500/- | Rs. 5,74,000/- | 1 1 1 | Rs. 5,74,000/- |

The sanctioned amount is debitable to the Major Head 3(A).49(a).31 Rs. 2,04,000/- & Head 3(A).49(a).35 Rs. 3,70,000/- and is valid for payment during financial year 2015-16.

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The amount of the Grant shall be drawn by the Under Secretary (Drawing and Distributing Officer), University Grants Commission on the Grants-in-aid Bill and shall be disbursed to and credited to the PRINCIPAL, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist. (Sangli) – 416 312 Maharashtra, India through Electronic mode as per the following details.

| | Payment Details | |
|-----|--|--|
| (a) | Bank Name & Address of Branch | Bank of Maharashtra, Mali Galli, Gurivar Peth, Tasgon |
| (b) | Account No. | 00000020123531807 |
| (c) | Type of Account (SB/Current/Cash Credit) | Saving |
| (d) | IFSC Code | MAHB0000282 |
| (c) | MICR Code of Branch | 416014302 |
| (f) | Whether Bank Branch is RTGS or NEFT enabled? : | Yes (RTGS/NEFT/Both) |
| (g) | Name & Address of Account Holder | The Principal, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist.Sangli-416312 |

The Grant is subject to the adjustment of the basis of Utilization Certificate in the prescribed performa submitted by the University/Colleges/Institution.

- The University/College/Institution shall maintain proper accounts of the expenditure out of the grants which shall be utilized only on approved items of expenditure.
- The University/Institution may follow the General Financial Rules, 2005 and take Urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFR's 2005 and instructions/guideline there under from time to time.
- 6. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission as early as possible after the close of the current financial year.
- 7. The assets acquired wholly or substantially out of University Grant Commission's grant shall not be disposed or encumbered of utilized for the purposes other than those for which the grant was given, without proper sanctioned of the University Grants Commission and should, at any time the College/University ceased in function such assets shall revert to the University Grants Commission.
- A register of assets acquired wholly or substantially out of the grant shall be maintained by the University/College in the prescribed proforma.
- 9. The grantee institution shall ensure the utilization of grant-in-aid for which it is being sanction/paid. In case non-utilization/part utilization, thereof simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.
- The University/College/Institute shall follow strictly the Government of India / University Grants Commission guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal (for persons with disability etc.)] in teaching and non-teaching posts.
- The University/College shall fully implement the Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Languages (Use for Official purposes of the Union) Rules, 1976 etc.
- The sanction is issued in exercise of the delegation of powers vide University Grants Commission Office Order No. 69/2014 F.No.10-11/12 (Admn. IA & B) dated 26/03/2014.
- The University/Institution shall strictly follow the University Grants Commission Regulations on curbing the menace of Ragging in Higher Educational Institutions, 2009.
- The University/Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
- The accounts of the University/Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
- 16. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by

20.

- It is certified from the B.C.R. that the funds are available under the scheme. Entered in BCR at S.No. 1681 17. P. No. 22
- Crores are available under the scheme or BE/RE of the year The funds to the extent of Rs. 18. 2015-16.
- This issue with the concurrence of IFD Vide No. Diary No. 10946 Dated, 10.03.2015 . 19.
 - This issue with the approval of the Chairman, (UGC) Vide Diary No. 28731 Dated 30.04.2015 .

Yours faithfully,

(G.S. AULAKH) Under Secretary

Copy forwarded for information and necessary action to :-

- Registran
- The PRINCIPAL, SHIVAJI UNIVERSITY, KOLHAPUR. 1.
- Office of the Director General of Audit, Central Revenues, A.G.C.R. Building, I.P. Estate, New Delhi. 2.
- 3. Accountant General, Govt. of State, Maharashtra .
- Dr. Dr. Arjun Shankar Kumbhar , Principal Investigator, Department of CHEMISTRY , Padmabhushan Dr. 4.
- Vasantraodada Patil Mahavidyalaya, Tasgaon Dist. (Sangli) 416 312 Maharashtra, India The Principal, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist. (Sangli) - 416 312 5. Maharashtra, India

(ARUN KUMAR SINHA) SECTION OFFICER

6 Gurad file



2016-17

NO. SB/FT/CS-153/2013 SCIENCE AND ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor, Vasant Square Mall, Plot No. A, Community Centre, Sector -5, Pocket -5, Vasant Kunj, New Delhi-110070

ORDER

Dated: 20 06 2014

Subject: - Financial Sanction of the research project entitled "Design and applications of biopolymer supported palladium catalysts for organic synthesis" under the guidance of Dr. Arjun Shankar Kumbhar, Department of Chemistry, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Sangli-416312.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 2500000/- (Rupees twenty five lakh only) with break-up of Rs. 1380000/- (Rupees thirteen lakh eighty thousand only) under Non-Recurring and Rs. 1120000/- (Rupees eleven lakh twenty thousand only) under Recurring for a duration of three years. The items of expenditure for which the total allocation of Rs. 2500000/- has been approved for a period of three years, are given below:

| SI. No. | HEAD | TOTAL (In Rs.) |
|------------|--|-------------------|
| A | Non-Recurring | |
| 1 | Equipment: Liquid Chromoatography Agilent 1220 Infinity I Gradient System | C 1380000 |
| A' | Total (Non-Recurring) | 1380000 |
| В | Recurring Items | |
| 1 | Recurring- A : (Manpower, Consumables, Analytical Charges, Travel(Domestic), Contingencies) | 820000 |
| 2 | Recurring- B: (Overhead Charges) | 300000 |
| B' | Total (Recurring) | 1120000 |
| C | Total Cost of the Project (A'+B') | 2500000 |

 Sanction of the SERB is also accorded to the payment of Rs. 1380000/- (Rupees thirteen lakh eighty thousand only) under 'Non-Recurring' and Rs. 280000/- (Rupees two lakh eighty thousand only) under 'Recurring' being the grant for the year 2014-15 for implementation of the said research project

 The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) (Non-Recurring & Recurring). This release is being made under Start-Up Research Grant (Young Scientists) - CHEMICAL SCIENCES.

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No. SERB/F 2306/2014-15 dated 28/06/2014.

 Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (<u>www.serb.gov.in</u>).

 Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. Including benefits to the staff employed in the project.

 While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

विस्थनियालय अनुदान आयोग University Grants Commission मानव संशोधन विकास मंत्रालय, भारत सरकार Ministry of Human Resource Development, Govt. of India परिषम विभागीय कार्यालय गणेशखित,पुणे- ४११००७ Western Regional Office, Ganeshkhind, Pune-411007

No. F. 23-1014/13 (WRO)

Ph: 020 - 25696896, 25696897, Fax: 020-25691477 Website- www.ugc.ac.in Email: wrougc@gmail.com

The DDO, University Grants Commission, Pune - 411007.

1 2 MAR 2015

Subject: Financial assistance to college teachers for undertaking Minor Research Projects -Release of first installment during XIIth Plan. Sir/Madam,

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I am directed to convey the sanction of the Commission. The UGC on the recommendations of the Expert Committee has approved the Minor Research Project in the subject of English entitled "The Theme of Oneness for Humanity and Culture in Alan Paton's Selected Novels" to be undertaken by Mr. Patil A. R., of PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA, TASGAON, TASGAON, SANGLI-416312. The financial assistance of the UGC would be limited to Rs. 200000/- for a period of two years. An amount of Rs. 165000/- (Rupees One lakh sixty five thousand only) is presently being sanctioned as the first installment.

| Non-Recurring Grant for Two years | Amount (Rs) | Recurring grant | 1 st Year Amount | 2 nd Year Amount | Grant to be approved |
|---|----------------|-----------------------|--------------------------------|--------------------------------|-------------------------|
| Books & Journals | 60000 | Contingency | 20000 | 20000 | na sat mat, |
| Equipment | 70000 | Special Need | 0 | 0 | NR 100% |
| | | Travel/Field work | 15000 | 15000 | Rec. 1# |
| | | Chemicals & Glassware | 0 | 0 | Year |
| | | Others | 0 | 0 | |
| Total (Rs.) | 130000 | | 35000 | 35000 | 165000 |
| | | | | | |

Total amount for the project: Rs. 200000/-

NOTE:

121.2220

The grants should be utilized within the time period as specified under the GFR, 2005

The grant is subject to the terms and conditions as mentioned below.

1. The project should be implemented as per the UGC guidelines of scheme for Minor Research Project which are available on UGC website i.e. www.ugc.ac.in.

2. The sanctioned amount is debitable to the Plan Head 3 (31) and is valid for payment during the financial year 2014-15.

| Component | Head of A/c 3(31) | Amount |
|-----------------------|---|--|
| General Component 76% | 3(A) | - |
| SC 16% | 3(B) | 165000 |
| ST 8% | (C) | 145000 |
| | Component General Component 76% SC 16% ST 8% | Component Head of A/c 3(31) General Component 76% 3(A) SC 16% 3(B) ST 8% (C) |

No. F 23-1014/13 (WRO) 3. The amount of the grants shall be drawn by the DDO, UGC (WRO), Pune on the Grants-in-aid bill and shall be disbursed to and credited to the Principal of the college through Electronic mode as per

| a. | Details (Name & Address) of Accounts Holder: | PRINCIPAL, PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA TASGAGON |
|-----|---|---|
| Ь. | Account No.: | TASGAON, SANGLI 416312 |
| C. | MICR Code: | 20123531807 |
| d. | IFSC Code: | |
| c, | Type of Account: | MAHB0000282 |
| 2.5 | Contraction of the second s | Saving Account |

4. The grant is subject to adjustment on the basis of Utilization Certificate in the prescribed Performa

- 6. The University/ Institution may follow the General Financial Rules, 2005 and take urgent necessary
 - action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provision of GFRs, 2005 and instruction/ guideline there under from time to time.
- 7. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current 8.

The assets acquired wholly or substantially out of UGC's grant, shall not be disposed of or encumbered or utilized for purposes other than those for which the grant was given, without proper

sanction of the UGC, and should at any time the College cease to function, such assets shall revert to the University Grants Commission. A Register of the assets acquired wholly or substantially out of the grant shall be maintained by

the University/ College in the prescribed proforma, 10. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned/

paid. In case non-utilization / part utilization, the simple interest @ 10% per annum as amended from time to time on utilization amount from the date of drawl to the date of refund as per provision contained in General Financial Rules of Govt. of India will be charged.

11. The Univ. /College shall follow strictly the Government of India/ UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal [for

persons with disability etc.)] in teaching and non-teaching posts. 12. The University/ College shall fully implement to Official Language Policy of Union Govt. and

comply with the Official Language Act, 1963 and Official Languages (use for official purposes of 13. The sanction issues in exercise of the delegation of powers vide Commission office order No.

130/2013 [F. No. 10-11/12 (Admn. IA & B)] dated 28/5/2013. 14. The University/ Institution shall strictly follow the UGC Regulations on curbing the menace of

15. The University/ Institution shall take immediate action for its accreditation by National Assessment

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^{5.} The University/ College shall maintain proper accounts of the expenditure out of the grants, which

79 -3-No. F 23-1014/13 (WRO) 16. The accounts of the University/ Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005. 17. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government. 18. An amount of Rs. /- out of Rs. /- has been utilized against this office sanction letter of even dated by the university/Institute/College vide Ref No. dated for the purpose for which it awas sanctioned 0 and noted in grant in aid/ BCR register at Pg. No. 1 & S. No. 0 19. Future grant will be released on receipt of Statement of Expenditure Utilization Certificate (Item-20. Funds to the extent are available under the Scheme. 21. This issues with the concurrence of IFD vide Diary No. (IFD) dated (N. A.) 0 22. This issues with the approval of Head of Office. 23. Entry has been made in BCR at Pg. No. 1 & S. No. 262 ø Yours faithfully 0 ma 0 (Naresh Pal Meena) Copies forwarded for information and necessary action to: Education Officer • 1. THE PRINCIPAL THE FRINCIPAL PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA, TASGAON TASGAON, SANGLI 416312. 00000000 MR. PATIL A. R., PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA, TASGAON, TASGAON, SANGLI-DIRECTOR (BCUD), SHIVAJI UNIVERSITY, VIDYA NAGAR, 3. KOLHAPUR- 416004 DIRECTOR, HIGHER EDUCATION, CENTRAL BLDG, PUNE 4. ACCOUNTANT GENERAL, MAHARASHTRA STATE, MUMBAI 5. 6. GUARD FILE. 1013 (L. N. Sahu) Section Officer

UNIVERSITY, GRANTS COMMISSION WESTERN REGIONAL OFFICE GANESHIKHIND, PUNE - 411007

File No: 23-106/12(WRO)

The Accounts Officer University Grants Commission Ganeshkhind, Pune-411007. Phones: (020) 25691477, 25691178, 25696897 Fax: (020) 25691477 Web site: www.ugc.ac.in

- 5 FEB 2013

Subject: Financial assistance to college teachers for undertaking Minor Research Projects -Release of first installment during XIIth Plan. Sir/Madam.

The UGC on the recommendations of the Expert Committee has approved the Minor Research Project entitled "A Study of Performance Evaluation of Tasgaon Urban Co-Operative Bank in Tasgaon Taluka" in the subject- Commerce to be undertaken by Mr. Patil M. D., PADMBHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA, TASGAON, SANGLI-416 312. The Financial assistance of the UGC would be limited to Rs. 100000/-(Rupees Only) for a period of two years. An amount of Rs. 77500/- (Rupees Only) is presently being sanctioned as the first installment.

| Non-Recurring Grant for Two years | Amount (Rs) | Recurring grant | 1 st Year Amount | 2 nd Year Amount | Head of a/c |
|---|----------------|-------------------|--------------------------------|--------------------------------|---------------------|
| Books & Journals | 20000 | Contingency | 10000 | 10 K 11 1 | School on the state |
| Equipment | 35000 | Special Need | 10000 | 10000 | 4(iv)b |
| | | Travel/Field work | 0 | 0 | - I Brithfith |
| | and the second | Chamicale & Class | 12500 | 12500 - | (For SC) |
| | | Other Collassware | 0 | B. 1. 01 1. | 1.B(i)h(i)b |
| | | Others | 0 | 0 | (For ST) |
| otal (Rs.) | 55000 | (i) + | 22500 | 22500 | 110 5-10 |

Total amount for the project: Rs. 100000/-

The grant is subject to the terms and conditions as mentioned below.

- <u>A Certificate of Acceptance</u> of the conditions governing the research project should be sent immediately to this office.
- The amount of the grant shall be drawn by the Accounts Officer (D.D.O), University Grants Commission on the grant-in-aid bill and shall be disbursed to and credited to the abovementioned institute through D.D./ RTGS Confirmation No/ NEFT/ Transfer No.
- The sanctioned amount is debatable to the Major Head 4(iv)b(For General), 1.B(i)h(i)b (For SC), 1.B(i)h(i)b (For ST) and is valid for payment during the financial year 2012 -2013 only.
- The grant is subject to adjustment on the basis of Utilization Certificate in prescribed proforma submitted by University/College/Institute.

NOTE:

4. p. p. p. p. 13.

- 1. The grant shall not be used self-financial/ non-grant/unaided courses & teachers.
- 2. Date of implementation will be the date of sanction of first installment.
- 3. The researcher is required to submit an Acceptance Certificate of the project in the
 - enclosed format to the affiliating university, which would then be sent to UGC P.(D.NOPinMabanics Prove University.

Tasgaon, Dist Sangli Inward No. 1972 1 MAR 2013

विश्वविद्यालय अनुदान आयोग पश्चिम विभागीय कार्यालय गणेशक्तित, पुणे - अर्रत्वन्न University Grants Commission Western Regional Office Ganeshkhind, Pune - 411007.



цяточ Phone: этибал OFF:- 020 - 25696897 020 - 25696896 020 - 25696896 020 - 25691178 Fran T.de Faar 020 - 25691477

> Website - www.uge.ac.in Email: wrouge sigmail.com

3 0 MAY 2014

File No: 23-758/13(WRO)

JHE PRINCIPAL, PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA, TASGAON, TASGAON, SANGLI-416 312.

Subject: Minor Research Projects approval for during XIIth Plan.

Sir Madam.

I am directed to convey the approval of the UGC Minor Research Project in the subject of Marathi entitled "N. D. Mahanoranchya Ajintha Khandkavyavar Adharit Chitrapat..." to be undertaken by Dr. Badame T. K. of PADMABHUSHAN DR. VASANTRAO DADA PATH. MAHAVIDYALAYA, TASGAON, TASGAON, SANGLI-416 312.

| Non-Recurring Grant for Two years | Amount (Rs.) | Recurring grant | Amount (Rs.) |
|---|-----------------|--------------------------|-----------------|
| Books & Journals | 30000 | Contingency | 30000 |
| Equipment | 20000 | Special Need | 0 |
| 10 | | Travel/Field work | 20000 |
| | | Chemicals & Glassware | 0 |
| State State of State | | Others | 0 |
| Total (Rs.) | 50000 | | 50000 |

Total allocation amount for the project: Rs. 100000/-

Certificates as per Annexure-II of Guidelines, <u>Certificate of Acceptance</u> of the conditions governing the research project should be sent immediately to this office.

BY. T.K. Badane PL-TICI2014

P. D. V. P. Mahavidyalaga Tasgaon, Dist. Sangil. Inward No. 200 Date - 27 JUN 2014

TRUE COPY

For PRINCIPAL dmabhushan Dr. Vasantraodada Patil Mahavidyatay, Tasgaon (Sangli)

Dr. A Mukhopadhyay Head

INSPIRE & FIST Division Email: tsd@nic.in Tel. + Fax: 011-26602193

भारत सम्बद्धर विज्ञान और प्रीष्टोगिकी मंत्रालय विज्ञान और प्रीद्योगिकी विभाग टेक्नोलाजी भवन नया महरोली मार्ग नई दिल्ली - 110010

GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY Department of Science & Technology Technology Bhawan, New Mehrauli Road, New Delhi-110016

SR/FST/ College-208/2014

2) November 2014

Subject: Your Proposal under "FIST Program - 2014"

Dear Sir,

This is in connection with the aforesaid proposal submitted by your Department/ Centre for support under the FIST Program of DST. We are happy to inform you that the aforesaid proposal has been identified for support in Level-I category by the DST based on the recommendations of the FIST Advisory Board (FISTAB). The details of the recommendations for 5 years duration of the project are given below:

To:strengthen Teaching and Research Facilities in all Science departments of the College E – Rs 32 lakh (liems to be identified for Teaching Facilities by the College). NW - Rs 7 lakh (for Setting up Computer Lab) Books - Rs 3 lakh. Renovation of Lab - Rs 5 lakh (for making e-Learning Room) Maintenance - Rs 3 lakh

Total : Rs 50.0 Lak

It may be noted that the allocations indicated now above with respect to any Equipment or any other budget heads are the upper limit of the budget as they are purely based on recommendations and also tentative. However, Department shall now finally firm-up specifications/ configurations of each Equipment, Computational & Networking facility in Computer Lab. Infrastructure Facility as recommended above for acquiring by the Department/ Centre/ School and actual cost of this project shall firmed up based on these inputs from you. The support for the 'Maintenance' will be provided as per norms under FIST Program. The type of equipment and its specifications/ configurations finalized now by the Department/Centre/ School would not be possible to change during the course of implementation of the said project. For enabling us to process the case further, including the release of 1st installment of grant now, you are requested to please submit the following documents latest by before 16th February 2015 (Monday):

- 1) One each Budgetary Quotation from Equipment supplier (all-inclusive i.e. Custom Duty, Bank & other Charges) for all Equipment recommended for support. Please ensure that the budgetary cost is not an inflated one with respect to its specifications given. In case, Equipment list "to be Identified & prioritized", please submits quotations of the Identified & prioritized Equipment only. Under 'Teaching Facility Support' only laboratory equipment to be utilized for experimental purposes shall be proposed. Teaching Alds like LCD Projector, Smart Boards etc. are out of scope under FIST support and shall not be projected by the College.
- 2) Details plans for Implementation of the 'Networking and Computational Facilities' (NW) under the support as per guidelines mentioned in the Terms and Conditions of DST-FIST Program available at the Website: www.fist-dst.org. Please download 'Terms & Conditions' and submit the same on completion of all formalities along with above-said documents to DST.
- 3) Details & their cost estimates of Items/ activities recommended & proposed under 'Infrastructure Facility' which includes the list of Books, etc.

P D. V. P. Mahavidyalays 1. lanu

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- 4) For implementation of the project, the Department/School/Centre/College shall constitute an 'Project Implementation Group' who shall be responsible & accountable for Its implementation during the project duration of 5 years. The composition of the 'Project Implementation Group' shall be informed to DST by the Department/School/Centre.
- 5) The respective Department/ School/ Centre/College shall open an only Saving Bank Accounts to handle the project grants. <u>However</u>, the concerned Department/Centre or College shall need to forward a photocopy of a Blank Cheque only for their Institute/ University/College Bank Account which is maintained & operated by the Registrar (for University) or Director (for Institute) or Comptroller (for Agricultural University) or Principal (for College) to facilitate the transfer of grants through ECS Transfer System. The Department/Centre or College shall also be requested to ensure the registration in Central Plan Scheme Monitoring System (CPSMS) [www.cga.nic.in] for R&D Support (1005) head of A/c and atlach the Registration Details of their University/Institute/College along with other documents.

The Department/ Centre/ School who have already enjoyed support earlier under FIST Program and recommended for <u>Repeat Support</u> now, shall need to complete all formalities i.e. submission of Project Completion Report, Audited Financial Statements, refund of unspent funds etc. for the previously supported project under DST-FIST Program. Processing towards releasing the grants to such Department/ School/ Centre would not be possible to initiate without completion of all formalities for the previous project. <u>Blank Format</u> towards closure of previous project is also available at the Website: <u>www.fist-dst.org</u>.

Departments/ Centres/ Schools/ College are also requested for sending all documents at one stage instead of sending in parts by Post only. Please avoid of sending these documents by Email as well as at the last moment. Incomplete documents submitted by any Department/ Centre/ School/ College would be unable to process for releasing grants and the matter would be kept pending maximum for six months, beyond which recommendations for the Department/Centre/School/ College deemed to be forfeited automatically for considering support under DST-FIST Program.

We look forward for kind cooperation from you in this regard and if any clarifications are needed, please feel free to contact us. <u>Please submit the following documents before 14th</u> <u>February 2014 (Friday). All documents will be required to send by Post. Documents may not be sent by E-mail for releasing fund.</u>

With best regards.

(A. Mukhopadhyay)

To

Principal, Department of Chemistry Padmabhushan Dr. Vasantraodada Patll Mahavidyalaya, Tasgaon, Sangli-416312 Maharashtra

[Note: E -- Equipment, NW -- Networking & Computational Facility, IF -- Infrastructure facility, M --Maintenance]

No.SR/FST/College-208/2014(C) GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF SCIENCE & TECHNOLOGY R & D (Infrastructure) DIVISION

Technology Bhawan, New Mehrauli Road, New Delhi -110015.

17th March, 2016

ORDER

Subject: Financial assistance (1" installment) to Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416312, (Maharashtra) under FIST Program.

Sanction of the President is hereby accorded to the Implementation of the aforesaid project at a total cost of <u>Rs. 50,00,000/- (Rupees Fifty lakh only)</u> for 5 years at Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416312, (Maharashtra). The details of this are given below:

To strengthen the Research and Teaching facilities in all Science Departments of the College <u>Cabital Assets</u> Rs(47:00) E Rs. 32[00] - <u>in eaching Facility</u> Rs.32:00 _ for chitrens -for various departments (as per list)] IF RS. 3 OL (Renovation of labs for setting up a e Learning class Room-Rs 5:001 & Brooks-Rs 3:00] Networking Rs.7 OL (To set up a Compiliter Lab) <u>Genera Components</u> Rs 3:00 M-Rs 3:00[Total Rs 5:000[ac]

2. The sanction of the President is also accorded to the release of <u>Rs. 39,50,000/- (Rupees Thirty nine lakh and fifty thousand only)</u> to the <u>Principal, Padmabhushan Dr. Vasantraodada Patli Mahavidyalaya, Tasgaon, Sangli-416312, (Maharashtra)</u> under FIST Program as a 1^{at} installment of the grant in 2015-2016 under 'creation of capital assets' head for the maximum cost of the aforesaid Equipment including (9.4%) Custom Duty & other duties. The break-up of 1^{at} installment grant released now,would be "Equipment": Rs.32.0 lakh for procurement of the equipments mentioned above [Equipments of Foreign Origin to be acquired on FE Terms only]. Infrastructure facility': Rs.0.50 lakh for acquiring Books & 'Networking and Computational facilities'; Rs.7.0 lakh. Under the 'Networking & Computational facilities' the proposed lab will have 15 Desktop Systems, 01 Printer, UPS 5KV Online, and NW accessories.

 <u>The Department/College will appropriately limit the expenditure within the</u> sanctioned amount in case of any expected excess expenditure. The College is requested to utilize the released funds in first one year.

4. The Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416312, (Maharashtra) shall implement the aforesaid project with the Terms and Conditions' already agreed to by the College. Further, as per Rule 211 of revised GFRs the accounts of this Project Grants at Grantee Organization shall be made available for inspection by the sanctioning authority/ audit where ever the Organization is called upon to do so.

5. There is no pending SE/UC on this Project as per details in the PFMS also. This is the first release of this project under FIST Program, which has been initiated, in this financial year so no previous UC is attached with this sanction order.

V. D. V. P. Mahavidyalaya

Tasgaon, Dist. Sangli.

Enward No. 1713 Date - 22 MAR 2016

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Dr. J.S.Ghodke OS/H.C.K. Principal. Contd ... 2/ ...

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The College will furnish to the DST, Utilization Certificate and an audited Statement of Expenditure pertaining to the grant immediately after the end of each financial year.

7. The grant is being released subject to the 'Terms & Conditions' of the Program being agreed to by the Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416312, (Maharashtra). The College/University/Institute will maintain separate audited accounts and would keep whole of the College/University/Institute will maintain separate audited accounts and would be reported keep whole of the grant in a bank account earning interest, the interest earned should be reported to the DST. The latent in a bank account earning interest, the interest earned should be adjusted to the DST. The Interest thus earned will be treated as a credit to the Institute, to be adjusted towards further installment of the grant.

The expenditure involved is to be debited to

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Demand No. 86 - Department of Science & Technology;

"3425" - Other Scientific Research (Major Head);

60 - Others (Sub-Major Head);

60.200 - Assistance to other Scientific Bodies (Minor Head);

25 - Research & Development Support

25.01 - Grants-in-aid for R&D Support

25.01.35-Grants for creation of capital assets for the year 2015-2016 (Plan). The above release is made under 'R&D ' Scheme.

The amount of Rs. 39,50,000/- (Rupees Thirty nine lakh and fifty thousand only) will be disbursed to the Principal, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416312, (Maharashtra) in it's A/c No. 20123531807, IFSC Code: MAHB0000282 with Bank of Maharashtra TASCAON (2020) Principal Mail Dida 2, IFSC Code: MAHB0000282 Bank of Maharashtra, TASGAON (282) Branch, Mall Bldg Gurruwar Peth Tasgaon, Tasgaon.

The sanction issues under the powers delegated to the Ministries and with the concurrence of the Integrated Finance Division, Department of Science & Technology vide their C.Dy.No. 5143 /IFD/2015-2016 dated. 02.02.2016.

11, The sanction order is entered vide FIST No. 435 dated. 17:03 .2016 in the register of

Scientist 'D Email: a.bhattacharyya@nic.in

Copy forwarded for information and necessary action to:

1 Pay & Accounts Officer, Department of Science & Technology, New Delhi - 110 016.

2. Cash Section (with two spare copies).

2. Principal, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416312, (Maharashtra); (Pl. Note the New Project No.) (In case the amount sanctioned transferred under this sariction is not received by the P.I within 15 days from the date of issue of the sanction, the PI may intimate the fact with details of the IFD Diary No. & Date to the Joint Secretary and Financial Adviser at the e-mail address fin.adv.dst.dbt@gmail.com for looking Into the matter and resolving it).

4. Office of the Director & Audit, Scientific Department, AGCR Bldg., 3rd Floor, IP Estate, New Delhi -110002.

5. Office of Accountant General, Maharashtra, Mumbal.

6: Head, R & D (Infrastructure), DST New Delhi.

- 7. FIST-Secretariat.
- 8. CoA / IFD, DST, New Delhi.

9. Sanction Folder.

A.Bhattachary

Scientist 'D' Email: a.bhattacharyya@nic.in



भारत सरकार

विज्ञान और प्रौद्योगिकी मंत्रालय विज्ञान और प्रौद्योगिकी विभाग टेक्नोलॉजी भवन, नया महरौली मार्ग नई दिल्ली-110 016

GOVERNMENT OF INDIA MINISTRY OF SCIENCE AND TECHNOLOGY DEPARTMENT OF SCIENCE AND TECHNOLOGY TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD NEW DELHI-110 016

: 26962819, 10.07373, STAIN / Tel 26562134, 26562122 (EF 26569905, 26515637, Gold / Fax 26863847, 26862418 "Peells coverballa : www.dat.gov.in

Dr. Arindam Bhattacharyya

Scientist - E R & D Infrastructure Division

Email: a.bhattacharyya@nic.in Phone: 011-26590539 Fax: 011-26602193

SR/FST/ College-208/ 2014

04th October 2018

Subject: Review Meeting of the ongoing project under "FIST Program 2013/ 2014" at Department of Chemistry, Padmabhushan Dr. Vasantraodada Patli Mahavidyalaya, Tasgaon, Sangli-416312, Maharashtra

Dear Sir/ Madam,

. Whealth

This is in reference to the aforesaid project being implemented at your College supported under FIST Program of DST. It is hoped that the grants released in different installments have been utilized for acquiring the required facilities in the College and these are being utilized effectively for teaching & research activities. It has now been decided to review the progress achieved in these projects identified during the year 2013/ 2014 and supported thereof. You are therefore kindly requested to attend the Mid-term Review Meeting on 27th October. 2018 (Saturday) at Ramada-Alleppey, Nehru Trophy Finishing Point, Punnamada, Alleppey-688001, Kerala at 9:30 am and present the progress achieved in this project. The duration of each presentation may be limited to 10 minutes. The presentation shall be a scientific one and the College should highlight utilization of the FIST support and its impact on the College's overall growth & achievements including acquiring & utilization of the facilities for teaching & research, improvement in teaching performance, any new experiments set up, impact & quality on research & development, publications records, award of sponsored project, any national/ international recognition etc..

It may be further kindly noted that only the Principal of the College needs to present the progress achieved in the Project during the aforementioned Meeting.

Further, a soft copy of the PPT presentation and Progress Report (as per format available at our Website: www.fist-dst.org) of the project should be mailed to shiva.prasad@nic.in with a copy to a.bhattacharyya@nic.in at DST positively by 17th October, 2018.

DST would reimburse the TA/DA including travel by AIR-INDIA only under Apex Economy fare as per Govt, norms, to one participant of each project for attending this meeting at Ramada, Alleppey, Kerala. A line of confirmation on participating in the meeting would also be appreciated. Due to constrain in providing accommodation etc. at Alleppey, we would be unable to provide the same for attending the meeting. However, for any other help or information, you may contact: Dr. G. Nagendra Prabhu (Mobile No. 03495017901; email: nagendra.prabhu@gmail.com).

Kindly note this is a whole day meeting and so you are requested to plan your travel schedule accordingly. Request for any rescheduling of the presentations would not be entertained.

We look forward to meet you in the meeting.

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With best regards

Ashallicha

(A. Bhattacharvva)

| Department of Chemistry Padmabhushan Dr. Vasantraodada Patli Mahavidyalaya, Tasgaon, Sangli-416312 Maharashtra | P. D. V. P. Mahavidyalaya Tasgaon Inword No 1142 |
|--|--|
| You can also follow us | |

[]@IndiaDST or www.twittsr.com/indiaDST



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH HUMAN RESOURCE DEVELOPMENT GROUP (Extra Mural Research Division) CSIR Complex, Library Avenue, Pusa, New Delhi 110 012 Tele: 25842074 / 25841701 / 25842729 / 25842704 http://www.csirhrdg.res.in

File No:08/617(0001)/2014-EMR-I

Date: 13/3/2018

MEMORANDUM

Subject: Extension of Senior Research Fellowship

Sir/Madam,

On the basis of satisfactory research progress of Mr. SACHINKUMAR KISAN SHINDE as assessed and recommended by the three member assessment committee on completion of two/three years as SRF, the Head – Human Resource Development Group (CSIR) has been pleased to accord his approval to the extension of fellowship as SRF with effect from 01/02/2018 to 31/01/2019 with a stipend of Rs 28000/- per month.

The Senior Research Fellowship is subject to the existing terms & conditions governing CSIR fellowship which inter-alias provides that the total tenure of JRF and SRF (from all sources) combined is limited to five years.

Head, HRDG, CSIR has further been pleased to sanction the following additional grant towards the stipend and contingency for the period commencing from 01/02/2018 to 31/01/2019

Stipend: Rs 336000/- Contingency: Rs 20000/- Total: Rs 356000/-

The claim may be limited to the period of current financial year. For the period beyond that the claim may be submitted at the start of next financial year. No separate renewal sanction will be issued next year.

The expenditure will be debited to the budget head grant in aid Fellowships P -81 101 for the current financial year.

You are kindly advised to visit the HRDG(CSIR) website (www.csirhrdg.res.in) for rules/regulations governing the fellowship/associateship. You are also advised to submit Annual Progress Report alongwith other requisite documents well in time. Noncompliance of CSIR norms for submission of annual progress report alongwith other requisite documents within six months after completion of yearly tenure may result in termination of fellowship/associateship.

Yours faithfully (R.K.MEENA) SECTION OFFICER EMR-I 13/3/2018

.

To, DR. SURESH S. PATIL PROJECT GUIDE DEPT. OF DEPARTMENT OF CHEMISTRY P.D.V.P COLLEGE TASGAON, Maharashtra Pin 416312 Copy to:

- 1. Mr. SACHINKUMAR KISAN SHINDE, Through Project Guide
- Principal, P.D.V.P COLLEGE TASGAON, Maharashtra Pin- 416312
- 3. F&AO (EMR)
- 4. Bill File
- 5. Office Copy



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH HUMAN RESOURCE DEVELOPMENT GROUP (Extra Mural Research Division) CSIR Complex, Library Avenue, Pusa, New Delhi 110 012 Tele: 25842074 / 25841701 / 25842729 / 25842704 http://www.csirhrdg.res.in

File No:08/617(0001)/2014-EMR-I

Date: 17/10/2017

MEMORANDUM

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Yours faithfully

(R.K.Meena) SECTION OFFICER EMR-I 17/10/2017

To, DR. SURESH S. PATIL PROJECT GUIDE DEPT. OF DEPARTMENT OF CHEMISTRY P.D.V.P COLLEGE TASGAON, Maharashtra Pin 416312 Copy to:

- 1. Mr. SACHINKUMAR KISAN SHINDE, Through Project Guide
- Principal, P.D.V.P COLLEGE TASGAON, Maharashtra Pin- 416312
- 3. F&AO (EMR)
- 4. Bill File
- 5. Office Copy



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH HUMAN RESOURCE DEVELOPMENT GROUP (Extra Mural Research Division) CSIR Complex, Library Avenue, Pusa, New Delhi 110 012 Tele: 25842074 / 25841701 / 25842729 / 25842704 http://www.csirhrdg.res.in

File No:08/617(0001)/2014-EMR-I

Date: 14/12/2016

MEMORANDUM

Subject: Upgradation of Junior Research Fellow JRF (NET) to Senior Research Fellow, SRF (NET)

Sir/Madam,

On the basis of satisfactory research progress of Mr. SACHINKUMAR KISAN SHINDE as assessed and recommended by the three member assessment committee on completion of two years as JRF, the Head – Human Resource Development Group (CSIR) has been pleased to upgrade fellowship from JRF (NET) to SRF (NET) and enhance stipend from Rs 25000/- p.m. to Rs 28000/- p.m. with effect from 01/02/2016 to 31/01/2017.

The Senior Research Fellowship is subject to the existing terms & conditions governing CSIR fellowship which inter-alias provides that the total tenure of JRF and SRF (from all sources) combined is limited to five years.

Head, HRDG, CSIR has further been pleased to sanction the following additional grant towards the stipend and contingency for the period commencing from 01/02/2016 to 31/01/2017

Stipend: Rs 3,36,000/-

Contingency: Rs 20,000/-

Total: Rs 3,56,000/-

The claim may be limited to the period of current financial years. For the period beyond that the claim may be submitted at the start of next financial year. No separate renewal sanction will be issued next year. The expenditure will be debited to the budget head grant-in-aid Fellowships P -81 101 for the current financial year.

You are kindly advised to visit the HRDG(CSIR) website (www.csirhrdg.res.in) for rules/regulations governing the fellowship/associateship. You are also advised to submit Annual Progress Report alongwith other requisite documents well in time. Noncompliance of CSIR norms for submission of annual progress report alongwith other requisite documents within six months after completion of yearly tenure may result in termination of fellowship/associateship.

Yours faithfully.

(R.K.Meena) SECTION OFFICER EMR-I 14/12/2016

To, DR. SURESH S. PATIL PROJECT GUIDE DEPT. OF DEPARTMENT OF CHEMISTRY, P.D.V.P COLLEGE TASGAON, Maharashtra, Pin 416312

Copy to:

- Mr. SACHINKUMAR KISAN SHINDE, Through Project Guide
 Principal, P.D.V.P COLLEGE,
- TASGAON, Maharashtra, Pin- 416312.
- 3. F&AO (EMR)
- 4. Bill File
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Chatrapati Shahu Maharaj National Research Fellowship (CSMNRF-2019)



Chhatrapati Shahu Maharaj Research, Training and Human Development Institute, Pune

(An Autonomous Institute of Other Backward Class, Social & Educational Backward Class, Vimukt Jati & Nomadic Tribes and Special Backward Class Welfare Department Government of Maharashtra)



Balchitravani, Gopal Ganesh Agarkar Road, Behind Senapati Bapat Road, Pune (Maharashtra) - 411 004.

Email ID ; md.sarthi@maharashtra.gov.in CIN+ U74999PN2018NPL177394

Website : www.sarthi-maharashtragov.in

Subject: - <u>SARTHI's National Research Fellowship-2019 for Maratha, Kunbi,</u> <u>Kunbi-Maratha and Maratha-Kunbi candidates to pursue M.Phil /</u> <u>Ph.D. Degree</u>

Dear Ashutosh Rejun Jagdall

Congratulations!!

With reference to your application for the Research Fellowships for Maratha, Kunbi, Kunbi –Maratha and Maratha-Kunbi candidate, I am happy to inform you that, Chhatrapati Shahu Maharaj Research, Training and Human Development Institute (here in after referred to as SARTHI) has selected you for the Chhatrapati Shahu Maharaj National Research Fellowship-2019 (here in after referred to as (CSMNRF-2019). The financial assistance under the fellowship is awarded to you for the research subject mentioned in your registration letter submitted by you. The fellowship award is subject to genuineness of documents submitted by you and your compliance to the terms & conditions of SARTHI.

You will eligible for financial assistance, relevant to you, as given in the table below w.e.f. 11.09.2019 under CSMNRF- 2019:-

| Sr. no. | Item | Financial Assistance |
|------------|---|---|
| 1. | Amount of Fellowship (For All Subjects) | @Rs. 25,000/-per month for initial two years(JRF), @ Rs. 28,000/- per month for the remaining tenure (SRF) |
| 2. | Contingency (For Humanities, Social Sciences and Commerce) | @Rs.10, 000/-per annum for initial two years, @ Rs. 20,500/- per annum for remaining three years. |
| 3. | Contingency (For Sciences and Engineering & Technology) | @Rs.12,000/-per annum for initial two years, @ Rs.25, 000/-per annum for remaining three years. |
| 4. | Escorts/Reader Assistance | @Rs. 2,000/-per month in case of physically and visually challenged candidates. |
| 5. | HRA | As per University/ Institution rules. |

Please note that this award letter is being issued on the basis of photocopies of the following documents furnished by you to SARTHI.



Chhatrapati Shahu Maharaj Research, Training and Human Development Institute, Pune

(An Autonomous Institute of Other Backward Class, Social & Educational Backward Class, Vimukt Jati & Nomadic Tribes and Special Backward Class Welfare Department Government of Maharashtra)



Balchitravani, Gopal Ganesh Agarkar Road, Behind Senapati Bapat Road, Pune (Maharashtra) - 411 004.

Email ID : md.sarthi@maharashtra.gov.in CIN- U74999PN2018NPL177394 Website : www.sarthi-maharashtragov.in

Subject: <u>Chief Minister Special Research Fellowship-2019 for Maratha, Kunbi, Kunbi-</u> <u>Maratha and Maratha-Kunbi candidates to pursue M.Phil. / Ph.D. Degree</u> Dear <u>Rupesh</u> Chandralcant Patil

Congratulations!!

With reference to your application for the Research Fellowships for Maratha, Kunbi, Kunbi-Maratha and Maratha-Kunbi candidates, 1 am happy to inform you that Chhatrapati Shahu Maharaj Research, Training and Human Development Institute (hereinafter referred to as SARTHI) has selected you for the Chief Minister Special Research Fellowship-2019 (hereinafter referred to as CMSRF-2019). The financial assistance under the Fellowship is awarded to you for the research subject mentioned in your registration letter submitted by you. The Fellowship award is subject to genuineness of documents submitted by you and your compliance to the terms and conditions of SARTHI.

You will be eligible for financial assistance relevant to you, as given in the table below w.e.f. 11.09.2019 under CMSRF-2019:

| Sr. | Item | Financial Assistance |
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| 5. | HRA | As per University/Institution rules. |

Please note that this award letter is being issued on the basis of photocopies of the following documents furnished by you to SARTHI:

- Photocopy of your registration document for regular and full time M.Phil. /Ph.D. course in a University/ Institution, which is included and declared fit to receive financial assistance under Sec.2 (f) and 12 B of the UGC Act 1956;
- 2. The photocopies of other relevant documents and pertaining to you.

Please note that the Fellowship amount and other financial assistance as per your eligibility, stream wise, shall be disbursed through your savings Bank Account in Bank of India.



Ref.No. : PDVPMT /

Date :

Criterion III

Research, Innovations and Extension

3.3.2

Patent





भारत सरकार GOVERNMENT OF INDIA पेटेंट कार्यालय THE PATENT OFFICE पेटेंट प्रमाणपत्र PATENT CERTIFICATE (Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.

आवेदन सं. / Application No.

201821013419

358284

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फाइल करने की तारीख / Date of Filing

पेटेंटी / Patentee

09/04/2018

1.MR. KADAM SHUDDHODAN NARHARI 2.DR. AMBHORE AJAY NIWRUTTIRAO 3.DR. DAWANE BHASKAR SADASHIV

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A RAPID PROCESS FOR THE SYNTHESIS OF ORGANIC SULFIDE BY USING IN SITU-GENERATED N-HETERO SULFANYLSUCCINIMIDES AT ROOM TEMPERATURE. नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 9th day of April 2018 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A RAPID PROCESS FOR THE SYNTHESIS OF ORGANIC SULFIDE BY USING IN SITU-GENERATED N-HETERO SULFANYLSUCCINIMIDES AT ROOM TEMPERATURE. as disclosed in the above mentioned application for the term of 20 years from the 9th day of April 2018 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 10/02/2021 Date of Grant :



टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 9th day of April 2020 को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी। Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 9th day of April 2020 and on the same day in every year thereafter.

क्रमांक : 022111793 SL No :





Ref.No. : PDVPMT /

Date :

Criterion III

Research, Innovations and Extension

3.3.2

Research papers of the Teachers
2020 and 2021

Nesearch on Chemical Intermediates https://doi.org/10.1007/s11164-021-04608-2



Revisit to Henry reaction by non conventional heterogeneous and efficient catalyst for nitroalcohol synthesis

Swati D. Jadhav¹ · Rupesh C. Patil¹ · Ashutosh A. Jagdale¹ · Suresh S. Patil¹

Received: 6 July 2021 / Accepted: 13 October 3021 © The Author(s), under exclusive licence to Springer Nature 8.V. 2021

Abstract

A sustainable, green and efficient process for the synthesis of 2-oitro alcohol derivatives from different substituted aromatic aldehydes with nitroalkane by stirring at ambient temperature with high product yield is reported. Adoption of very mild reaction conditions, use of Calcined Eggshell (CES) as natural catalyst and simple workup are expected to contribute to the development of environmentally benign synthetic method for Henry (nitroaldol) reaction. CES is ecologically safe, inexpensive, and attractive heterogeneous base catalyst obtained from renewable resources, thus opening a new perspective for this process.

Graphical abstract



Keywords Calcined eggshell - Heterogeneous catalyst - Henry reaction - Nitro alcohol

Swati D. Jailhav sdj31@yaboo.co.in

¹ Synthetic Research Laboratory, PG Department of Chemistry, PDVP College (Affiliated to Shivaji University, Kolbapur), Tasgaon, Sangli, Maharashtra 416312, India

Published online: 28 October 2021

Research on Chemical Intermediates https://doi.org/10.1007/x11164-021-04608-2



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Published online: 28 October 2021

Research on Chemical Intermediates https://doi.org/10.1007/s11164-021-04608-2



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Published online: 28 October 2021

Hesearch on Chemical Intermediates https://doi.org/18.1007/s11164-021-04008-2



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Published online: 28 October 2021

Catalysis Letters. https://doi.org/10.1007/s10562-021-03597-6



Agro-Waste Generated Pd/CAP-Ash Catalyzed Ligand-Free Approach for Suzuki–Miyaura Coupling Reaction

Rupesh C. Patil¹ - Ashutosh A. Jagdale¹ - Uttam P. Patil¹ - Jeevan S. Ghodake² - Sawanta S. Mali¹ - Chang K. Hong¹ -Suresh S. Patil¹

Received: 12 August 2020 / Accepted: 6 March 2021

The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2021

Abstract

We converted agro-waste Custard Apple Peels (CAP) to ash via thermal treatment, on which Pd(OAc)2 was immobilized easily that produced a low-cost, highly efficient Pd/CAP-ash catalyst. The prepared catalyst was fully characterized by using FT-IR, SEM, EDX, XRF, DSC-TGA, BET, HR-TEM, and XPS techniques. The Pd/CAP-ash catalyst was conveniently applied for the Suzuki–Miyaura coupling reaction under external base free and linguid-free conditions in an aqueous-organic solvent to produce biphenyls in good to excellent yields. The main attraction of our protocol an application of palladiumsupported agro-waste material which is easily recoverable and recyclable provides mono and bis-coupled derivatives in a short reaction time.

Graphic Abstract



Keywords Agro-waste - Cestard apple peels - Palladium - Suzuki-Miyaura coupling

Suresh S. Patil nanyujapatil@safeeara

- Synthetic Research Laboratory, PG Department of Chemistry, PDVP College, (affiliated to Shivaji University, Kolhopur), Targaon, Sangli, MS 416312, India
- Department of Physics, PDVP College, (affiliated to Shivaji University, Kolhapur), Tasgaon, Sangli, MS 416312, India
- Pulymer Energy Materials Laboratory, School of Advanced Chemical Engineering, Chonnam National University, Gwangju 500-757, South Korza

1 Introduction

Palladium being the most specific transition metal has one of the most versatile catalytic properties. Salts of Pd have already proved that they are highly efficient catalysts in making new carbon-carbon (Cap²-Csp²) bonds, which seemed to be very challenging scenario in the past. Eventually it was discovered that Pd salts have tremendous scope in synthetic chemistry as its advantages were revealed one by one. In Citalysis Letters https://doi.org/10.1007/s10562-021-03597-6



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Graphic Abstract *



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Suresh S. Patil Lanyujapatil @ 94 Nices

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Suresh 5. Patil saoyujapatil@ya200

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Bhagyashree M. Patil¹ - Sachinkumar K. Shinde² - Ashutosh A. Jagdale² -Swati D. Jadhav² - Suresh S. Patil²

Received: 23 February 2021 / Accepted: 20 June 2021 O The Author(s), under exclusive licence to Springer Nature B.V. 2021

Abstract

A transition metal/ligand/additive/promoter-free synthesis of 3-methyl-4-arylmethylene-isoxazol-5(4H)-ones and the Biginelli-like synthesis is carried out in a natural acidic medium of Averrhoa bilimbi extract (ABE) with cleaner and facile approach smentioned here. The isoxazol-5(4H)-ones and 11-acetyl-2-methyl-5,6-dihydro-2H-2,6-methanobenzo[g][1,3,5]-oxadiaazocin-4(3H)-ones are synthesized, respectively, under aerobic conditions at room temperature and at reflux temperature of ethanol. This eco-friendly and economically cheap, non-toxic acidic catalytic media is obtained from the renewable resource, and its dynamic phase is confirmed by the optical microscopy, DLS technique, and with critical micelle concentration (c.m.c.) measurements. The notable advantages are excellent yields of the obtained products, versatility in handling substrates, reuse of the catalyst, use of no hazardous organic solvents, and minimization of waste or side products. So, the reported procedure is simple, evergreen, and a sound alternative to the existing protocols for isoxazol-5(4H)-one synthesis and for Biginelli-like synthesis as well.

0

 Saresh S. Patil sanyujapatil@yabox.com Bhagyushree M. Patil hmpatiD0@gmail.com

Isotinite of Formatic Science, 15, Madam Cama Road, Mumbri, Maharushtra 400032, India

Grees Research Laboratory, PG Department of Chemistry, PDVP College, Targues, Dist. Sangli, Maharashtra 416312, India

Published enline: 08 September 2021

Research on Chemical Intermediates https://doi.org/10.1007/x11164-021-04539-y

Fruit Extract of Averrhoa bilimbi: A Green Neoteric Micellar Medium for Isoxazole and Biginelli-Like Synthesis

Bhagyashree M. Patil¹ - Sachinkumar K. Shinde² - Ashutosh A. Jagdale² -Swati D. Jadhav² - Suresh S. Patil²

Received: 23 February 2021 / Accepted: 20 Ame 2021 © The Authoritis, under exclusive licence to Springer Nature 8.V. 2021

Abstract

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Fruit Extract of Averrhoa bilimbi: A Green Neoteric Micellar Medium for Isoxazole and Biginelli-Like Synthesis

Bhagyashree M. Patil¹ · Sachinkumar K. Shinde² · Ashutosh A. Jagdale² · Swati D. Jadhav² · Suresh S. Patil²

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Chickpea leaf exudates: a green Brønsted acid type biosurfactant for bis(indole)methane and bis(pyrazolyl)methane synthesis†

Rupesh C. Patil, @ * Shashikant A. Damate, * Dnyandev N. Zambare* and Suresh S. Patil @ **

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1. Introduction

C-C bonding in organic transformations is an indispensable tool for synthesis of numerous structural moieties which are indeed building blocks of agrochemicals, natural products, medicinally important compounds, and so forth.^{1,2} The simplest and of course the most imperative synthetic transformations are based on formation of carbon-carbon and carbon-nitrogen bonds. These transformations have been proved as a pioneer for synthesis of various biologically active compounds and construction of fine chemicals pharmaceutical agents, and smart engineering materials, including conducting polymers and molecular wires.³⁻⁶

Due to the environmental issues associated with many organic transformations, there is a huge challenge for researchers to develop chemical processes using more environmentally acceptable reagents, catalysts, solvents, and atom-efficient methods, and energy-efficient technologies eliminating waste production as well as employing renewable feedstocks are experiencing a profound challenge to meet sustainability

(effiliand in Shingi University, Kolhapor), Targane, Sangli (MS), 426312, India. E-mail: sanyajopatil@yahon.com criteria." Furthermore, the environmental risks posed by volatile and toxic organic solvents have become a major concern, as organic reactions employ more consumption of solvents than reactants and the employed solvents are difficult to recycle;⁷ to overcome this problem, the first task is to replace organic solvents with auxiliary ones.

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Nowadays, an important aspect which is receiving growing attention is the use of alternative reaction media that avoid the problems associated with many of the traditional volatile organic solvents." The use of hazardous solvents in the chemical industry is associated with a variety of indirect environmental impacts such as non-renewable resource reduction as a result of petrochemical solvent production, air emissions due to solvent incineration or high energy investment. for solvent recycling processes." Therefore, the ability to efficiently carry out organic reactions in more environmentally friendly solvents remains an important object of green chemistry research. It means that, wherever practicable, synthetic methods should be designed to use and generate substances that possess little or no toxicity to animal as well as human health and the environment.18 Our interest is using easily available natural feedatocks to replace chemical catalysts and solvents.

Biosurfactants, being naturally sourced materials, have certain advantages over chemical surfactants, such as their biodegradable nature, their less toxic nature, and their ecological acceptability. One of the fundamental properties of surfactants is their selfassociation into organized molecular structures such as micelles,

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M. U. Pati et al.

and high ionic conductance. By virtue of this, they are acknowledged as suitable solvent for wide array of synthetic protocols [39]. ILs are widely classified in two groups viz. protic ionic liquids (PILs) and aprotic ionic liquids (AILs). Among these, protic ionic liquid is a class of ionic liquids that are formed by mixing strictly equimolar amount (1:1) of appropriate Bronsted acids and bases. Proton transfer from the acid to base creates proton-donor as well as proton-acceptor sites establishing hydrogen-bonded network is the key property of PILs that distinguish them from other ILs [40]. Therefore, its argent need to developed new protocol for the synthesis of quinoxaline using -SO₂H bifunctionalized Bronsted acidic ILs.

In continuation of our research interest in the development of new methodologies using clean and more efficient catalysts [41–44], herein, we wish to report a synthesis of novel -SO₃H bifusctionalized Bronsted acidic ionic liquid 1, 5-bis (butanesulphonic acid)-diazobicyclo [4,3,0] non-5-enium hydrogen sulphate [BBSA-DBN] [HSO₄] in aqueous solution and their application to synthesize quinoxalines via onepot two component condensation of substituted 1,2-diketones and various aromatic 1,2-diamines in ethanol at 80 °C (Scheme 1). The highly Bronsted acidity of IL due to the presence of two -SO₃H groups and two HSO₄⁻ anions were determined by Hammett method. Moreover, the IL [BBSA-DBN][HSO₄] could be easily recovered and reused at least five times without change in its catalytic activity. Advantage of this protocol are mild reaction condition, high yield, simple work-up, no chromatographic separation required and low reaction time.

Results and discussion

The synthetic approach used to assemble the zwitterionic precursors to these acidic -SO₃H functionalized IL is well precedented [45]. Reaction of the neutral nucleophile 1,5-diazobicyclo[4,3,0]non-5-ene [DBN] with 1,4-butanesultone produces the requisite zwitterions in excellent yields. In the second step, the simultaneous realization of the latent acidity of the zwitterions and their conversion into IL 1, 5-bis(butanesulphonic acid)-diazobicyclo [4,3,0]non-5-enium hydrogen suiphate [BBSA-DBN][HSO₄] is accomplished. The chemical yields for both the zwitterion formation and acidification steps are essentially quantitative. The process of



Scheme 1 Oue-pot condontation of 1,2-dilumines 1 with aromatic 1,2-diamines 2 for synthesis of quinotalines 3

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Cite this: DOI 10.1039/dl/(00362/

Chickpea leaf exudates: a green Brønsted acid type biosurfactant for bis(indole)methane and bis(pyrazolyl)methane synthesis†

Rupesh C. Patil * Shashikant A. Damate,* Dnyandev N. Zambare¹⁰ and Suresh S. Patil *

A clean and highly efficient protocol for green synthesis of bis(indole)methanes and bis(pyrazoly)methanes has been successfully achieved by using a naturally sourced bio-surfactant, chickpea leaf eaudates (GLE), as a Bransted acid-type catalyst. The reaction proceeds smoothly with CLE in alcoholic medium at 60 °C in a very short reaction time, and therefore it is a green, environmentally sound alternative to the existing protocols. In comparison to the reported conventional methods, this synthetic pathway complies with several key requirements of green chemistry principles such as avoiding the use of any toxic/hazardous catalyst and additives/promoters, the use of a biodegradable catalyst obtained from renewable resources, auxiliary solvent conditions, and reusability of the catalyst. Thus, the reported protocol offers an attractive option because of its ecological safety, straightforward work-up procedure and excellent values of green chemistry metrics as compared with other reported methods.

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C-C bonding in organic transformations is an indispensable tool for synthesis of numerous attractural moieties which are indeed building blocks of agrochemicals, natural products, medicinally important compounds, and so forth.^{4,3} The simplest and of course the most imperative synthetic transformations are based on formation of carbon–carbon and carbon–nitrogen bonds. These transformations have been proved as a pioneer for synthesis of various biologically active compounds and construction of fine chemicals pharmaceutical agents, and smart engineering materials, including conducting polymers and molecular wires.^{3–5}

Due to the environmental issues associated with many organic transformations, there is a huge challenge for researchers to develop chemical processes using more environmentally acceptable reagents, catalysts, solvents, and atom-efficient methods, and energy-efficient technologies eliminating waste production as well as employing renewable feedstocks are experiencing a profound challenge to meet sustainability criteria.⁶ Furthermore, the environmental risks posed by volatile and toxic organic solvents have become a major concern, as organic reactions employ more consumption of solvents than reactants and the employed solvents are difficult to recycle;² to overcome this problem, the first task is to replace organic solvents with auxiliary ones.

Nowadays, an important aspect which is receiving growing attention is the use of alternative reaction media that avoid the problems associated with many of the traditional volatile organic polvents.* The use of hazardous solvents in the chemical industry is associated with a variety of indirect environmental impacts such as non-renewable resource reduction as a result of petrochemical solvent production, air emissions due to solvent incineration or high energy investment for solvent recycling processes." Therefore, the ability to efficiently carry out organic reactions in more environmentally friendly solvents remains an important object of green chemistry research. It means that, wherever practicable, synthetic methods should be designed to use and generate substances that possess little or no toxicity to animal as well as human health and the environment.19 Our interest is using easily available natural feedstocks to replace chemical estalysts and solvents.

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One-pot multicomponent synthesis of N-sulfonyl amidines using magnetic separable nanoparticles-decorated N-heterocyclic carbene complex with copper

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Abstract

Magnetic separable nanoparticles-decorated N-heterocyclic carbene complex with copper (MNP[1-Methyl benzimidazole]NHC@Cu) has been prepared by covalent grafting of ionic liquid like 1-methyl benzimidazole unit on the surface of chlorofunctionalized Fe₃O₄ magnetic nanoparticles (MNPs) followed by metallation with copper(I) iodide. MNP[1-Methyl benzimidazole]NHC@Cu complex has been characterized by different techniques including Foutier transform infrared (FT-IR) spectroscopy, thermogravimetric analysis (TGA), energy-dispersive X-ray (EDX) analysis. X-ray diffraction (XRD), transmission electron microscopy (TEM) and vibrating sample magnetometer (VSM). MNP[1-Methyl benzimidazole]NHC@Cu complex was successfully implemented as heterogeneous catalyst in one-pot multicomponent synthesis of N-sulfonyl amidines from phenylacetylene, tosyl azide and amines at room temperature. Complex could be recycled six times without significant loss in the yield of product.

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Fig.1 Some biological active quinosaline derivatives

However, these methods show varying degrees of success as well as limitations such as use of expensive catalysts, prolonged reaction times, lower yields, use of toxic organic solvents and harsh reaction conditions. Although a large number of catalytic systems have been developed for the synthesis of quinoxaline using the routes, there is a still scope for improvement especially towards developing an efficient protocol using a highly forceful catalyst. Organic transformation by ionic liquids (ILs) has concerned increasing interest offering many economic and practical pros. From a viewpoint of ecological advantages of ILs, it is desirable to use ILs as a catalyst since it is harmless and environmentally benign [31].

Using ILs, avoids the use of toxic and expensive organic solvents that are normally used in organic transformation owing to their special physical and chemical properties such as low vapour pressure, non-volatility, high thormal stability, excelient solvation ability, wide liquid temperature range, non-inflammability, excelient solvation ability, easy recyclability and the possibility of varying their structure to manipolate parameters like density, solubility [32, 33], etc. These properties and most importantly their power as solvent encourage the scientist to synthesis such compounds. Coulombic interactions are the dominant interactions between the ions; however, intermolecular interactions like pep stacking, van der Waals interaction and hydrogen bonding, so forth help the supramolecular organization of the ILs [34]. It should be noted that covalently tethered alkane sulphonic acid group to the IL cation produced a strong Brønsted acid [35]. These ILs with SO₃H as functional have been intensively studied over the past five years. Also, due to this functional group, their acidic properties and water solubility could be improved [36].

Recently, DBN was significantly used as catalysts in different research area. The combination of cation with DBN can produce novel types of ILs and these hybrid naterials are used as catalysts [37]. The great number of functional ILs has been designed for different purposes [38]. ILs have been deemed as recyclable and envitonment friendly substitutes for volatile organic solvents attributing to their attractive negligible vapour pressure, chemical and thermal stability, non-flammability

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A synergetic role of Aegle marmelos fruit ash in the synthesis of biscoumarins and 2-amino-4H-chromenes

Rupesh C. Patil, et al. [full author details at the end of the article]

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Abstract

A dry rind of Aegle marmelos (bael) fruit ash as a synergetic alternative material to an expensive, toxic and corrosive catalysts for the synthesis of biscoumarins and 2-amino-4H-chromenes at ambient temperature in water is reported. The spectroscopic evidence from EDX, FTIR, XRD and SEM analysis of bael fruit ash supports the presence of metal oxides, carbonates and hydroxides which are intensely responsible for the acceleration of the reactions. The striking features of this protocol are utilization of bio-waste, cost-effective, recyclable and biodegradable catalytic system, which provide good to excellent yields in a short reaction time.

Graphic abstract



Keywords Bio-waste · Bael fruit · Natural catalyst · Biscoumarins · 2-Amino-4Hchromenes

Electronic supplementary material. The online version of this article (https://doi.org/10.1007/s1116 4-020-04367-6) contains supplementary material, which is available to authorized users.

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Supported NHC-Benzimi@Cu Complex as a Magnetically Separable and Reusable Catalyst for the Multicomponent and Click Synthesis of 1,4-Disubstituted 1,2,3-Triazoles via Huisgen 1,3-Dipolar Cycloaddition

Arvind Pawar^{1,3} - Shivanand Gajare² - Ashutosh Jagdale¹ - Sandip Patil¹ - Wilson Chandane² - Gajanan Rashinkar² - Suresh Patil¹

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Abstract

In this paper, we report a novel magnetically separable silica coated copper nano-magnetite NHC-benzimi@Cu complex as heterogeneous catalyst for the multicomponent click reaction via Huisgen 1,3-dipolar cycloaddition reaction of alkyl or aryl halide, sodium azide and terminal alkyne, which affords various1,4-disubstituted 1,2,3-triazoles. The multistep prepared nano catalyst has been characterized by various spectroscopic methods such as PT-IR, TGA, EDX, XRD, TEM and VSM. The heterogeneous nano catalyst structures coated on the copper surface are responsible for the excellent catalyst performances in the reaction. The reusability of the catalyst makes the present protocol more fascinating from an environmental and economic point of view.

Graphic Abstract



Keywords Magnetically retrievable nanocatalyst - Click reaction - Copper iodide - 1,2,3-triazoles - Reusability

Extended author information available on the last page of the article

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Supported NHC-Benzimi@Cu Complex as a Magnetically Separable and Reusable Catalyst for the Multicomponent and Click Synthesis of 1,4-Disubstituted 1,2,3-Triazoles via Huisgen 1,3-Dipolar Cycloaddition

Arvind Pawar^{1,3} - Shivanand Gajare² - Ashutosh Jagdale¹ - Sandip Patil¹ - Wilson Chandane² - Gajanan Rashinkar² -Suresh Patil¹

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Abstract

In this paper, we report a novel magnetically separable silica coated copper nano-magnetite NHC-benzimi@Cu complex as heterogeneous catalyst for the multicomponent click reaction via Huisgen 1,3-dipolar cycloaddition reaction of alkyl or aryl halide, sodium azide and terminal alkyne, which affords various 1,4-disubstituted 1,2,3-triazoles. The multistep prepared nano catalyst has been characterized by various spectroscopic methods such as FT-IR, TGA, EDX, XRD, TEM and VSM. The heterogeneous nano catalyst structures coated on the copper surface are responsible for the excellent catalyst performances in the reaction. The reusability of the catalyst makes the present protocol more fascinating from an environmental and economic point of view.

Graphic Abstract



Keywords Magnetically retrievable nanocatalyst - Click reaction - Copper iodide - 1.2.3-triazoles - Reusability

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REVIEW.



U. P. Patil¹ Suresh S. Patil²

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Abstract

Catalysts are the jewel in the crown of the chemical industry, accelerating reaction kinetics and augmenting the efficiency of desired reaction paths. Natural feedstock is a renewable resource capable of providing valuable functional products; in addition, it confers an opportunity to create catalysts. As an alternative to stoichiometric reagents, and as a part of a sustainable approach, the implications of using natural feedstocks as a source of new catalysts has attracted considerable interest. Natural feedstock-derived catalysts can promote chemical transformations more efficiently. Recent reports have highlighted the significant role of these biogenic, cost-effective, innocuous, biodegradable materials as catalysts in many biologically and pharmacologically important protocols. This review outlines the decisive organic transformations for which feedstock-derived catalysts have been employed effectively and successfully, along with their economic and environmental benefits over traditional catalytic systems.

Graphic Abstract



Keywords Plant material - Animal waste - Earth material - Catalysis - Organic transformations

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Brönsted acid hydrotrope combined catalysis in water: a green approach for the synthesis of indologuinoxalines and bis-tetronic acids

Arjun Kumbhar¹ - Dhanaji Kanase² - Suhas Mohite³ - Rajshri Salunkhe⁴ -Trushant Lohar²

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Abstract

The present work describes the applications of Brönsted acid hydrotrope combined catalyst (BAHC) as a mild, efficient and reusable catalyst for synthesis of indoloquinoxalines and bis-tetronic acids in water. Using BAHC, we synthesized many indologuinoxaline derivatives from isatins and o-phenylene diamine using 10 mol% PTSA in 40% aqueous hydrotropic (NaPTS) solution at room temperature with 83–90% yields. On the other hand, the reaction of tetronic acid with the aldehydes/ isatins forms bis-tetronic acids with 83–88% yields through Knoevengel condensation-Michael addition pathway in same BHAC. Moreover, the BAHC can be recycled upto 5th cycles with slight decrease in product yields. The extremely simple operational methodology, green solvent, ambient reaction conditions and high yields render this approach extremely appealing for the synthesis of different heterocyclic compounds.

Keywords Brönsted acid hydrotrope combined catalyst (BAHC) - Water -Indoloquinoxalines - Bis-tetronic acids

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PAPER

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Metal-free efficient thiolation of C(sp²) functionalization via in situ-generated NHTS for the synthesis of novel sulfenylated 2-aminothiazole and imidazothiazole[†]

A direct metal-free approach for the synthesis of novel sullenylated 2-aminothiszole and imidazothiszole

derivatives at room temperature is reported via an in situ-generated electrophilic thiolisting agent. The present protocol provides mild and selective access for the insertion of C-S bond functionalization with

good yield. The mechanistic path was justified via density functional theory (DF7) calculations, which

Shuddhodan N. Kadam," Ajay N. Ambhore," Rahul D. Kamble," Mahesh G. Wakhradkar," Priya D. Gavhane," Milind V. Gaikwad," Krishna Chaitanya Gunturu*" and Bhaskar S. Dawane **

explore the role of the solvent in the reaction mechanism.

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Introduction

The prevalent occurrence of organosulfur compounds in vital biological systems, drug architectures and natural products present themselves as versatile scaffolds in organic chemistry, medicinal chemistry and materials chemistry.2-3 They constitute an active portion of commercially available drugs.^{6,7} These consequences have led to an unending quest for a capable catalytic system, comprising a blend of carbon-sulfur bonds to create organosulfur compounds.9-18 The majority of reported transformations for C-5 bond coupling includes the synthesis of diaryl sulfides using imidazoheterocycles, 17-10 indoles,10-25 or aryl halides⁴⁶⁻⁴⁸ by reaction with thiols or thiones. Several catalytic systems utilized for the cross dehydrogenative coupling reaction (CDC) of the C-S bond include the use of transition metals,23-36 elemental sulfur,27-39 and iodine.40-44 Amongst these protocols, those capable of encountering direct metal-free regioselective C-S bond coupling in bifunctional motifs for the selective synthesis of heterocyclic organosulfur compounds are highly desirable.43-52 Moreover, among numerous catalytic systems reported for the synthesis of organosulfur compounds, the use of N-halosuccinimides was proven to be a highly useful

approach;12-22 however, N-halosuccinimides have a general tendency to oxidise secondary alcohols to their corresponding hetunes."Mult In recent years, the use of N-sulfanylsuccinimides for the direct sulfenylation of aromatic and heteroaromatic C-H bonds has become an interesting strategy,82-72 Very few reports are available for the synthesis of catechol thioethers. 15-27 However, the selective synthesis of organosulfur compounds has not been reported hitherto via in situ-genarated N-(heteroasynhio)succinimide (NHTS), by utilizing N-halosuccinimide and heterocyclic thiols such as 1H-benzo[d]imidasole-2-thiol, benzo[d] oxanole-2-thiol and 5-(pyridin-4-yl)-1,3,4-oxadianole-2-thiol. The use of these heterocyclic thiols may impart advantages in the areas of small molecule syntheses as well as pharmaceuticals as imidatothiatole and thiatoles are considered to possess a broad spectrum of biological activity."8,80 Consequently, the selective C-5 electrophilic sulfenylation of pseudo aromatic imidazothiazoles with secondary alcohols may provide a beneficial synthetic route for medicinal chemistry research. Jie et al. have reported the organocatalytic sulfersylation of β-naphthols using N-(arythio)succinimide as the sulfur source, and they have observed that the dearomatization of B-naphthols takes place with the esidation of an alcoholic group to a ketone (Scheme 1).78

Nevertheless, alcohols also possess the propensity to react with thicls to generate thioethers in the presence of certain catalytic systems.⁸¹⁻⁸⁰ These annotations and our previous study regarding the synthesis of bioactive compounds⁸³⁻⁸⁰ have provoked us to focus on the development of a new catalytic system for the selective C(sp²)-H bond thiolation of 2aminothiazoles and imidazothiazoles using heterocyclic thiols and N-halomccinimide.

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¹ Electronic supplementary information (KSI) available. See DOL 10.1039/ dougletroots

Journal of Applied Organometallic Chemistry

Original Article: DTP/SiO₂: An Efficient and Reusable Heterogeneous Catalyst for synthesis of Dihydropyrano[3,2-c]Chromene-3-Carbonitrile Derivatives

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R.D. Kamble, M.V. Gaikwad*, M.R. Tapare, S.V. Hese, S.N. Kadam, A.N. Ambhore, B.S. Dawane. DTP/SiO₂: An Efficient and Reusable Heterogeneous Catalyst for synthesis of Dihydropyrano[3,2-c]Chromene-3-Carbonitrile Derivatives. J. Appl. Organomet. Chem., 2021; 1(1):22-28.

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Koywords: D7P/5iO₃. green synthesis, dikydropyrano[3,2-c]chromene-3carbositrile.

ABSTRACT

An efficient and convenient method has been developed for the synthesis of 2amino-5-oxo-4-phenyl-4. S-dihydropyrano[3,2-c]chromene-3-carbonitrile derivatives from one-pot multicomponent reaction between 4-hydroxy-2Hchromen-2-one. Aromatic aldehydes and malononitrile were catalyzed by DTP/SiO₂ as an efficient and reusable heterogeneous catalyst. The carrent method provides adavtages over reported method viz simple operational procedure, easy isolation and recyclability of the catalyst, environmental benign, reduced reaction time and superior yield.



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Silica-supported sodium carbonate: an efficient heterogeneous catalyst for the synthesis of new thiazolopyrimidine derivatives

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Abstract

Herein we describe a new convenient strategy for the synthesis of substituted thiazolopyrimidines. The present approach delivers the use of silica-supported sodium carbonate (SSC) as a recyclable heterogeneous catalyst in PEG- 400 solvent. The described synthetic route offers an easy access for the synthesis of titled compounds through green chemistry protocols.



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Short communication

A Short Synthesis of Carbazole Alkaloids Murrayanine and Mukonine

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KEYWORDS

Carbazole alkaloids Mukonine Murrayanine Buchard coupling

ABSTRACT

The short, easy and total synthesis of Murrayanine [1], Mukunine [2], carbazole alkaloids were elaborated, based on a regioselective buchwald coupling of methyl 4-bromo-3-methoxybenzoate with aniline and successive transformation into the corrsponding carbazole alkaloids by oxidative coupling followed by cyclization of the phenyl and aryl rings.

GRAPHICAL ABSTRACT



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[BBSA-DBN][HSO₄]: a novel –SO₃H functionalized Bronsted acidic ionic liquid for easy access of quinoxalines

Megha U. Patil¹ - Sachinkumar K. Shinde¹ - Sandip P. Patil¹ - Suresh S. Patil¹

Received: 2 May 2020 / Accepted: 31 July 2020 / Published online: 19 August 2020 IO Springer Nature B.V. 2020

Abstract

A novel -SO₃H difunctionalized Bronsted acidic ionic liquid (BAIL) 1, 5-bis (butanesulphonic acid)-diazobicyclo [4,3,0] non-5-enium hydrogen sulphate [BBSA-DBN][HSO₄] is introduced for efficient synthesis of quinoxalines via condensation of substituted 1,2-diketones and various aromatic 1,2-diamines. It could serve as a dual functional catalyst for these reactions. This method has the advantages of mild reaction conditions, high yields, short reaction times, easy work-up, non-chromatographic separations and being environmentally friendly. This protocol provides an effective and environmentally friendly alternative methodology for production of quinoxalines and extends the chemical utilization of benzil in organic synthesis. This room-temperature-derived ionic liquid is highly acidic due to presence of two -SO₃H groups and two HSO₄⁻ anioms. Moreover, the IL [BBSA-DBN] [HSO₄] could be easily recovered and reused at least five times without change in its eatalytic activity. The formation of IL [BBSA-DBN][HSO₄] was confirmed by ¹H, ¹³C NMR spectroscopic techniques.

Betronic supplementary material. The online version of this article (https://doi.org/10.1007/s1116 4-020-04227-5) contains supplementary material, which is available to authorized users.

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Research on Overvical Intermediates https://doi.org/10.1007/k11154-030-04227-3



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Averrhoa bilimbi in organic transformation: a highly efficient and green biosurfactant for the synthesis of multi-functional chromenes and xanthenes

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A simple, clean and efficient one-pot three-component synthesis of multi-functional chromene and xanthene derivatives has been developed in this study in the presence of a catalytic amount of Bronsted acidic-type biosurfactant bilimbi fruit extract (BFE) under elevated temperature condition. BFE is an unprocessed micellar catalyst that works well in an ethanolic aqueous medium. Employment of ethanol as a cusurfactant enhances catalytic performance of BFE as a biosurfactant. The presence of micelles in the reaction medium was detected using light microscopy and their critical micelle concentration was measured by electrical conductivity method. Some new derivatives of chromene and xanthene are reported here. This novel catalytic medium obtained from an environmentally renewable resource is highly advantageous because of its non-toxicity, higher efficiency, operational simplicity, bio-compatibility as well as absence of any tedious work-up or column chromatography and thus no waste generation. Here, we also signify the 'greenness and sustainability" of the present protocol on the basis of EcoScale metric which validates the practical application of the synthetic procedure.

Keywords: Bilimbi fruit extract, biosurfactant, green chemistry, natural catalyst.

THE development of a proactive protocol for chemical transformations with high efficacy and reduced environmental impact is an important goal in green chemistry and in future sciences. With reduced environmental impact, young discipline of chemistry, green chemistry, promotes the use of highly efficient and environmental benign synthetic procedures to deliver life-saving medicines, and accelerating the guide optimization processes in drug discovery. In the synthetic organic reactions, solvents handle 80% of the total mass and also in 70% of the

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cases they are just incinerated to recover heat^{1,2}. Therefore, their substitution with more environment-friendly options can directly have a positive effect on both emission and hazardous issues³. Hence, it is desirable to use environmentally benign water as a safe, abundant, inexpensive and non-toxic solvent instead of organic solvents⁴. Due to the same features, accomplishing organic reactions in water has been explored over the past few decades⁵⁻⁸.

Methods

Nowadays, a viable alternative for the development of green protocols are biosynthetic processes utilizing biobased solvents or catalysts for organic tranformations". The advanced and/or newer organic promoters which perform well in the aqueous modium will be beneficial in reaction handling, product selection and purification, improving the reaction rate, and reducing toxic solvent consumption and disposal problems, etc. These are found to be important from the industrial point of view. Henceforth, there is demand for the use of catalyst/media which. works avoiding the hydrophobicity of organic precursors. and reagents, which is satisfied by the use of surfactant assembled aqueous micelles. Typically, the micellar environment has a pronounced effect in enhancing the reaction rate with good efficiency exhibiting environmentally benign character, which act as 'nanoreactors' characterized by exclusive features10 Hitherto, organic transformations involving surfactants in aqueous media have received considerable attention from researchers^{11,12}

All these findings validate the case of a naturally occurring medium/phase acting as surfactant, known as a biosurfactant. The surfactants that are directly obtained from natural sources, viz. plants, animals, or microbial cells, or by separation procedures such as extraction, precipitation or distillation are known as biosurfactants. They have potential industrial applications such as use in improved oil recovery, lubricants, food processing

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A simple, clean and efficient one-pot three-component synthesis of multi-functional chromene and xanthene derivatives has been developed in this study in the presence of a catalytic amount of Brønsted acidic-type biosurfactant bilimbi fruit extract (BFE) under clevated temperature condition. BFE is an unprocessed micellar catalyst that works well in an ethanolic aqueous mediuni. Employment of ethanol as a cosurfactant enhances catalytic performance of BFE as a biosurfactant. The presence of micelles in the reaction medium was detected using light microscopy and their critical micelle concentration was measured by electrical conductivity method. Some new derivatives of chromene and xanthene are reported here. This novel catalytic medium obtained from an environmentally renewable resource is highly advantageous because of its non-toxicity, higher efficiency, operational simplicity, bio-compatibility as well as absence of any tedious work-up or column chromatography and thus no waste generation. Here, we also signify the 'greenness and sustainability' of the present protocol on the basis of EcoScale metric which validates the practical application of the synthetic procedure.

Keywords: Bilimbi fruit extract, biosurfactant, green chemistry, natural catalyst.

THE development of a proactive protocol for chemical transformations with high efficacy and reduced environmental impact is an important goal in green chemistry and in future sciences. With reduced environmental impact, young discipline of chemistry, green chemistry, promotes the use of highly efficient and environmental benign synthetic procedures to deliver life-saving medicines, and accelerating the guide optimization processes in drug discovery. In the synthetic organic reactions, solvents handle 80% of the total mass and also in 70% of the

CURRENT SCIENCE, VOL. 118, NO. 6, 25 MARCH 2020

cases they are just incinerated to recover heat^{1,2}. Therefore, their substitution with more environment-friendly options can directly have a positive effect on both emission and hazardous issues². Hence, it is desirable to use environmentally benign water as a safe, abundant, inexpensive and non-toxic solvent instead of organic solvents⁴. Due to the same features, accomplishing organic reactions in water has been explored over the past few decades⁵⁻⁴.

Methods

Nowadays, a viable alternative for the development of green protocols are biosynthetic processes utilizing biobased solvents or catalysts for organic tranformations". The advanced and/or newer organic promoters which perform well in the aqueous medium will be beneficial in reaction handling, product selection and purification, improving the reaction rate, and reducing toxic solvent consumption and disposal problems, etc. These are found to be important from the industrial point of view. Henceforth, there is demand for the use of catalyst/media which works avoiding the hydrophobicity of organic precursors and reagents, which is satisfied by the use of surfactant assembled aqueous micelles. Typically, the micellar environment has a pronounced effect in enhancing the reaction rate with good efficiency exhibiting environmentally benign character, which act as 'nanoreactors' characterized by exclusive features10 Hitherto, organic transformations involving surfactants in aqueous media have received considerable attention from researchers^{11,12}.

All these findings validate the case of a naturally occurring medium/phase acting as surfactant, known as a biosurfactant. The surfactants that are directly obtained from natural sources, viz. plants, animals, or microbial cells, or by separation procedures such as extraction, precipitation or distillation are known as biosurfactants. They have potential industrial applications such as use in improved oil recovery, lubricants, food processing

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Research on Chemical Intermediates https://doi.org/10.1007/x11164-020-04160-5



Ash of pomegranate peels (APP): A bio-waste heterogeneous catalyst for sustainable synthesis of a,a'-bis(substituted benzylidine)cycloalkanones and 2-arylidene-1-tetralones

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Abstract

α,α'-bis(substituted benzylidene)cycloalkanones were efficiently prepared from variously substituted aldehydes and cycloalkanones in water by using ash of pomegranate peels (APP) as a catalyst. The APP-catalyst was obtained from bio-waste by simple thermal treatment to dry peels of pomegranate fruit and formation of its active phase was confirmed by FT-IR, XRD, XRF, EDX, SEM, DSC-TGA and BET techniques. The analysis revealed that the present catalyst has basic sites which promote the synthesis of desired products. The main attractions of our protocol are utilization of highly abundant bio-waste-derived catalyst and good-to-excellent yield in shortest reaction time. This green protocol was further extended for structurally diverse 2-arylidene-1-tetralores by condensation of equimolar quantity of aromatic aldehydes and 1-tetralore at low temperature. The catalyst could be quantitatively recovered and reused effectively for five times.

Bectronic supplementary material. The online version of this article (https://doi.org/10.1007/s1116 4-020-04160-5) contains supplementary material, which is available to authorized users.

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Ash of pomegranate peels (APP): A bio-waste heterogeneous catalyst for sustainable synthesis of q,q'-bis(substituted benzylidine)cycloalkanones and 2-arylidene-1-tetralones

Rupesh C. Patil¹ · Uttam P. Patil² · Ashutosh A. Jagdale¹ · Sachinkumar K. Shinde¹ · Suresh S. Patil¹

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Ash of pomegranate peels (APP): A bio-waste heterogeneous catalyst for sustainable synthesis of a,a'-bis(substituted benzylidine)cycloalkanones and 2-arylidene-1-tetralones

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Ash of pomegranate peels (APP): A bio-waste heterogeneous catalyst for sustainable synthesis of a,a'-bis(substituted benzylidine)cycloalkanones and 2-arylidene-1-tetralones

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EXPERIMENTAL PAPER



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Biowaste-Derived Heterogeneous Catalyst for the One-Pot Multicomponent Synthesis of Diverse and Densely Functionalized 2-Amino-4H-Chromenes

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Chromene skeletons are crucial structural motifs existing in abundant natural products and drug molecules.¹ These oxygen-containing heterocyclic compounds have a broad range of biological properties such as antimicrobial,² anti-HIV,³ anti-inflammatory,⁶ and cytotoxic activities.⁵ They are being investigated in neurodegenerative disorders such as Alzheimer's disease, Parkinson's disease, and Huntington's disease.⁶⁻⁸ Notably, several drug-molecules possessing 4H-chromene moteties are currently in use for the treatment of such ailments as asthma, hypertension, ischemia and urinary incontinence.⁹⁻¹¹

The synthesis of these O-heterocycles involves the three-component coupling of C-H activated acids with malononitrile and aromatic aldehydes in the presence of homogeneous and heterogeneous catalysts such as piperidine,¹² triethylamine,¹³ DBU,¹⁴ (NH₄)₂HPO₄,¹⁵ POPINO,¹⁶ piperazine,¹⁷ aqueous K₂CO₅,¹⁸ hydrotalcite (HT),¹⁹ TiO₂ nanowire,²⁸ MgO,²¹ mesolite,²² nanozeolite clinoptilolite,²³ trichloroisocyanuric acid²⁴ and 2-aminopyridine,²⁵ In no denial of fact, the reported methods are creditable; however, the implication of hazardous reagents and solvents, lengthy processes, energy investment for heating purposes and complications in the separation of products are realistic problems associated with these methods. Considering the diverse functionality of 2-amino-4H-chromenes, it was deemed worthwhile to explore a convenient protocol for the synthesis of these heterocycles.

Waste biomass has been increasingly targeted as a renewable feedstock for the production of high energy-density fuels, construction materials and, more recently, platform chemicals and high-value functional products. Using waste material to develop promising heterogeneous catalysts in addition to the target product makes the system more cost-effective and environmentally benign.^{26,27} The functionalized heterogeneous catalysts evaluated from waste biomass are mainly composed of metal oxides and possess high surface area and significant pore volume with high thermal stability.²⁸ The basic active sites of the heterogeneous ash catalyst may be responsible for the acceleration of the rate of reactions.

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Biowaste-Derived Heterogeneous Catalyst for the **One-Pot Multicomponent Synthesis of Diverse and** Densely Functionalized 2-Amino-4H-Chromenes

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Reaction Kinetics, Mechanisms and Catalysis https://doi.org/10.1007/s11144-020-01743-6



Waste mussel shell as a highly efficient heterogeneous catalyst for the synthesis of polyfunctionalized 4H-pyrans in aqueous media

U. P. Patil¹ + Rupesh C. Patil⁷ - Suresh S. Patil³

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Abstract

An economical and environmentally friendly heterogeneous base catalyst has been developed from a waste freshwater mussel shell and employed successfully for the synthesis of 4H-pyrans in an aqueous medium at ambient temperature. 2-arylideoemalononitrile, an intermediate of 4H-pyran reaction, was also prepared using the same catalyst. The catalyst was characterized by FT-IR, XRD, XRF, EDS, and SEM. Analytical tools such as XRF and EDS explored the presence of calcium oxide as a main component in the mussel shell, while the XRD pattern showed crystalline nature and SEM image displayed porous surface with irregular cavities. The catalyst exhibited unprecedented performance in the one-pot three-component condensation reaction of C-H activated acidic compounds with aromatic aldehydes and malononitrile in the green reaction medium and offered pure products without chromatographic separation.

Keywords Heterogeneous catalyst - Mussel shell - Green solvent - 4H-pyrans

Electronic supplementary material The online version of this article (https://doi.org/10.1007/s1114 4-020-01743-6) contains supplementary material, which is available to authorized earns.

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Waste mussel shell as a highly efficient heterogeneous catalyst for the synthesis of polyfunctionalized 4H-pyrans • in aqueous media

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Reaction Rinetics, Mechanisms and Catalysis https://doi.org/10.1007/s11144-020-01828-2

Sulfonic acid@pericarp-pomegranate: A natural supported catalyst for synthesis of bis(indolyl)alkanes

Monika Patil, et al. [full author details at the end of the article]

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Abstract

A heterogeneous solid acid catalyst, sulfonic acid supported on pericarp-pomegranate (sulfonic acid@PP) is prepared with green an eco-friendly approach. The prepared sulfonic acid@PP catalyst was extensively characterized by IR, FE-SEM, EDX and TGA techniques. The efficiency of the catalyst has been investigated for the synthesis of bis(indolyt)alkanes by electrophilic substitution reaction of indoles with carbonyl compounds in ethanol at 80 °C. Easy recovery by simple filtration and at least three times reusability without significant loss in the yield of the desired product are conspicuous features of the reported catalyst. In addition, the notable features of this protocol are high conversions, shorter reaction times, cleaner reaction profile, simple experimental and work-up procedure.

Graphic abstract



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Transition Metal Chemistry (2020) 45:403-411 https://doi.org/10.1007/s11243-020-00392-x

RESEARCH ARTICLE



Bio-surfactant: a green and environmentally benign reaction medium for ligand-free Pd-catalyzed Mizoroki–Heck cross-coupling reaction in water

Seema P. Patil^{1,2} - Sanjay N. Jadhav¹ - Chandrashekhar V. Rode² - Rajendra V. Shejwal⁴ - Arjun S. Kumbhar¹

Received: 23 March 2020 / Accepted: 29 April 2020 / Published online: 16 June 2020 © Springer Nature Switzerland AG 2020

Abstract

A simple and efficient protocol for the ligand-free Mizoroki-Heck coupling reaction of various aryl bromides with different • olefins has been reported by using in situ generated PdNPs of size 5–10 nm in aqueous solution of bio-surfactant. The biosurfactant used in this study is a saponin extract of the seeds of pericarps (pods) of the Acacia concinna plant. The in situ generated PdNPs have been characterized by various techniques such as HRTEM, EDS and XPS. The influence of various parameters such as the nature and amount of bases, the nature of Pd precatalysts as well as the effect of temperature has been investigated on Mizoroki-Heck coupling reaction. The generated PdNPs significantly coupled the various aryl bromides with different olefins in aqueous extract of the seeds of pericarps (pods) of the Acacia concinna plant at 100 °C.

Graphic abstract

Pd(OAc);, EI;N, 100 °C

Aqueous extract of bio-surfactant

Eco-friendly methodology
 No use of hazards solvents
 O 16 examples



Acacia Concinna pods

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Synthesis of hydrazinylquinoline-3-carbonitrile derivatives using green protocol and screening of their bioactivity

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Research Paper - Chemistry

ABSTRACT

Synthesis of bioactive heterocyclic compounds is the continuous work in every era. With achieving novel scaffold, discovery of synthetic rout as a diversion to the tradition rout is also a main aim on the mind of each research. Improvement of eco-friendly way for the synthesis of bioactive compounds is one of the leading objectives of medicinal chemist. Traditional synthetic rout suffers from number of serious barriers. These disadvantages are removed by applying the green chemistry principle which results in to the new and simple way for that synthesis. In this section we report an efficient green rout for the synthesis of hydrazinylquinoline-3-carbonitrile derivatives (4a-j) by using Bleaching Earth Clay (pH 12.5) in PEG-400 as green reaction media. All the synthesized compounds are characterized and screened for their antimicrobial activity in which most of the screened compounds shows significant activity.

Keywords : quinoline, BEC (pH-12.5), PEG-400, Antimicrobial, Introduction

Convergent synthesis of heterocyclic compounds from relatively simple starting materials can be achieved using tandem C–C bond formations [1-2]. Such transformations are usually operated in one pot without isolation or purification of intermediates. The development of tandem reactions for efficient construction of small molecules with operational

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Influence of rare earth ions (Sm³⁺, Dy³⁺) substitution on magnetic and microwave performance of magnesium ferrite



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ARTICLE INFO

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ABSTRACT

The name-crystalline rare earth (Sm³⁺, Dy³⁺) substituted MgFe₂O₄ with composition Mg((Sm)_{6.4}(Dy)_{6.4})₄Fe_{2.4}O₅ [a varies from 0.0 to 0.3 in steps of 0.05] have been prepared by chemical combustion route. X-ray differences analysis coeffected the formation of the spicel cabic phase as a major phase along with the perovskite action ferrite phase as a minor phase in all the samples except MgFe₂O₄. The room temperature magnetic properties of these samples have been investigated. It has been observed that with an increase in mostification of rare-earth ions (Sm⁵⁺, Dy³⁺), for iron in MgFe₂O₄, initial permeability increases, attain peak value for the composition with x = 0.15, and decreases for higher substitution concentrations. The reflection coefficients are found to be higher as roompared to MgFe₂O₄ whereas Voltage Standing Wave Ratio (VSWR) found to be lower. Overall investigations indicate MgF(Sm)_{6.4}(Dy)_{0.4}]₄/Fe₂, apO₄ is a pranising candidate for microwave device fabrication.

1. Introduction

Magnesium ferrite is a ferrimagnetic material with reasonably high resistivity, magnetic permeability, Curie temperature, and low luss. Due to these properties, magnesium ferrite and substituted magnesium ferritue were used for the fabrication of high-density magnetic recording heads, high-frequency devices, sensors, electronic devices, and microwave absorbersts [1]. It is expected that the rare earth ion substitution in place of iron improves the magnetic as well as electric properties of spinel ferrites [2-4] Now-a-days spinel ferrites are widely used for hismedical as well as photocatalytic applications [5-8]. Bamrai et al. [9] studied the structural and magnetic properties of dysprosium substituted magnesium ferrite. They observed the presence of an ortho-ferrite phase namely DyFeO2 as evidenced from X-ray diffraction analysis. Gadkari et al. [10] have observed the orthoferrite phase due to SmFeO₃ for sumarium substituted Mg-Cd ferrites. Juli Liang et al. reported magnetic properties of rare-earth substituted cobalt magnesium ferrite where the samples have been reduced in the Ar + H2 atmosphere. [1]]. The authors have noted that the non-stoichiometric composition gives maximum magnetization. Yourof et al. reported high-frequency dielectric properties of nanocrystalline yttrium substituted manganese

ferrite synthesized by the micro-emulsion method. Prior to dielectric measurements, the samples were thoroughly characterised using TGA, XRD, FTIR, SEM techniques [12]. Balamurugan et al. reported magnetic and optical properties of nanocrystalline magnesium-based spinel ferrite systems processed by ball milling [13]. Murugesan et al. reported structural, electrical, and dielectric properties of Mg. Co, and Cu-based spinel ferrites. The contribution of grain and grain boundary has been elucidated using impedance spectroscopy [14]. Gaba et al. reported the effect of certain ion doping on structural and magnetic properties of sol-gel synthesized nano-crystalline magnesium furrite. Prior to the investigation, the samples were characterized thoroughly using microscopic techniques and electron paramagnetic resonance properties have also been investigated [15]. Elkady et al. reported structural and magnetic properties of gadolinium substituted magnesium ferrite and proposed many applications such as hyperthermin, neutron capture therapy, etc. Maximum value of the naturation magnetization was found to be 26 emu/gm at room temperature among the samples examined [3]. Abdellarif et al. have investigated magnetic properties, specifically, magneto-impedance of rare earth substituted spinel ferrites. In their study the rare earth elements viz Dy, Gd, and Sm were doped in the Mn-Cr spinel ferrite system. Giant magnetoimpedance of 60% is

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FULL PAPER



Macromolecular Symposia

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Studies on Real and Imaginary Part of Permeability for Sm-Dy Substituted Mg Ferrite

R. N. Kumbhar, Tukaram J. Shinde, and Jeevan S. Ghodake*

The ferrite samples having composition $Mg[(Sm]_{0.3}(Dy)_{0.3}]_{n}Fe_{2.0}O_{n}$, in which x varies from 0.05 to 0.3 in steps of 0.05 have been prepared by using combustion method. X-ray diffraction analysis confirmed the formation of cubic spinel structure in addition of ortho-ferrite phase due to substitution of rare earth ions. The initial permeability and complex permeability of torold samples are calculated by measuring the values of inductance and Q-factor. It is seen that initial permeability and real part of initial permeability increases with increase in Samarium[Sm]-Dysproslum (Dy) rare earth element in magnetium (Mg) up to x = 0.15 and thereafter it decreases. The composition Mg[(Sm)_{0.5}(Dy)_{0.5}I_{0.15}Fe_{1.85}O₄ show low loss factor and initial permeability becomes higher as compared to other prepared rare earth content samples.

1. Introduction

Magnesium ferrite is an interesting and important ferrimagnetic material among the soft ferrites.^{[31} They are used for the fabrication of high density recording sensors, color imaging, high frequency devices, microwave absorbents due to its high electrical resistivity, and magnetic properties.^[344] Magnesium ions play an important role in the grain growth and densification for formation of the ferrite materials.^[34] In addition, rare earth ions substitution in place of Fe of ferrite material also shows structural distortion^[4] and strain in lattice; thereby, enhancing magnetic as well as electrical properties.^[7] Several researches have been conducted on electrical and magnetic as well as gas sensing properties of rare-earth substituted ferrites.^[8-11]

Kumbhar et al.⁽³²⁾ prepared 5m-Dy substituted magnesium ferrite by suto combustion method. They reported that real part of initial permeability of ferrite materials initially increases with frequency and thereafter remains constant for higher frequency. Xion et al.⁽³¹⁾ studied structural and magnetic properties of (Nd_xGd_{3:a})₁Fe₃₄Cr₃ and (Nd_xTb_{1,a})₁Fe₃₄Cr₃ intermetallic compounds. They have shown that the value of saturation magnetization increases with increasing Nd content for both compounds.

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Karthik et al.²¹⁴⁻⁴⁶ and Abdo Hezam et al.¹⁰⁷ have studied various properties of nanomaterials.

This work, reports the effect of Sm -Dy substitution on structural and magnetic properties of Mg ferrite materials.

2. Results and Discussion

Figure 1 shows the XED pattern of the Mg[[Sm]_{8.5}(Dy)_{8.5})_{6.00}Fe_{5.30}O₆ ferrite material. The presence of nominated peaks in the pattern confirmed the formations of cubic spinel ferrite phase with presence of ortho-ferrite phase due to rare

earth ions. Loganathan et al.¹¹⁴ have also observed such a phase for 5s³⁺ substituted MgFe₂O₄ nanoparticles.

Structural parameters like lattice parameter (a), crystallite size (D), strain (c).^[18] and X-ray density $(a, y^{(2)})$ of all the ferrites under investigation were calculated and are presented in Table 1. From this table, it is seen that no remarkable change occurs in lattice parameter, crystallite size, and strain of magnesium ferrites with rare earth substitution. The value of maximum strain are observed in the range of 2.96 × 10⁻⁴–3.33 × 10⁻⁴. It is found that X-ray density of ferrites increases with increasing rare earth content. This is attributed to increasing mass with increasing volume. Similar result was also reported by Shinde et al.^[21] for Nd¹⁶ substituted Ni–Zn ferrites.

Initial permeability (μ) and complex permeability of tornid samples were calculated by measuring L and Q values on LCR-Q meter using the formula described elsewhere.^[22,21] The frequency variation of initial permeability (μ), real part of initial permeability (μ) and imaginary part of initial permeability (μ ') for the Sm-Dy substituted Mg ferrite are shown in Figures 2, 3 and 4, respectively.

From Figure 2, it is seen that μ_i of all the ferrites show normal behavior. The value of μ_i increases with increase in rare earth content up to x = 0.15 and then decreases with increase in rare earth content. From Figure 3, it is clear that μ' increases with increase in frequency up to 25 kHz and then nearly remains constant as frequency increases. The value of μ'' gradually decreases up to frequency 500 kHz and thereafter it nearly remains constant with increasing frequency as shown in Figure 4. Initial permeability and loss factor at different frequencies of the samples under investigations are reported in Table 2. Similar type of study have been reported by Stergiou⁽³⁴⁾ for rare earth doped Ni-Go and Ni-Go-Zn spinel ferrites.

Figure 5 shows variation of loss factor with frequency fur Mgf(Sm)_{0.5}(Dy)_{0.5}[$Fe_{0.6}O$, for x = 0.05 to 0.30. It is observed

1900207 (1 of 4)

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Ni-Cu-ZnNanoferrite Prepared at Lower Sintering Temperature

cont. Persuant

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Abstract.Spinel ferrite with chemical formula Nig-Chi₁/Zn_{0.7}Fe₂O₄ was synthesized by smalate co-precipitation technique and characterized by X-ray diffraction, Infra-red spectroscopy, energy dispersive X-ray spectroscopy and field emission scanning electron microscopy techniques. X-ray diffraction analysis confirms the formation of single phase cubic spinel structure. Crystallite size of the ferrite obtained by Debye Scherter formula is finand to be about 36.55mm. Lattice constant of the ferrite is about 8.3816 Å and which is slightly higher than reported by microscopy sintering technique Absorption bands appear at 587.2 cm⁻² and 402.9 cm⁻¹ corresponding to the tetrahedral (A) and octohedral (B) sites in the IR spectra gives strong characteristic of spisel forma. E-DAX spectra confirm the required stochiometric proportion of observed that with co-precipitation technique and at lower sintering temperature (600 °C), we can synthesize well nanoferrite material.

Keywords: No-Cu-Zn ferrite: Co-precipitation reethod; structural properties.

INTRODUCTION

In recent years, a considerable amount of research has been carried out on ferrites because of their applications as biodiesel production, gas sensors, humidity sensors, Li-Ni batteries, mper-capacitors [1-5]. The rapid development of ferrites for the new fields of computer circuits and microwave composents [6] promises a greater effect on the daily lives of engineers and the public in the near future. Now a day, ferrite materials are largely synthesized in nano-metric scale for new and improved properties, which are considerably different fixes bulk materials. These materials are technologically important and have been used in many applications, including magnetic recording media and magnetic fluids for the storage and or retrieval of information, magnetic resonance imaging (MRI) enhancement, magnetically guided drug delivery [7]. In last decade lot of research work carried out on improved by the substitution of Cu²⁺ iom due to the formation of a liquid phase during sintering [0]. Recently there is a growing interest on Ni-Cu-Zu fornites used in the fabrication of electronic devices instead of Ni-Zu ferrites and Mg-Zu ferrite.

Several researchers have prepared Ni-Cu-Zn mass-ferrite by variases methods such as reverse modelle method, autocombustion method, oxalate based precursor method, microwave simering method, sol-get method etc. Magnetic properties of supper substituted Ni-Zn nato-crystalline forrites have been reported by Ghasemi et al. [9]. They were prepared forrites by impleying reverse micelle process and found that saturation magnetization decreases with increase in copper content. Bateo and Antari [10] synthesized the Ni-Cu-Zn ferrites have been studied by Raghavender et al. [11]. They synthesis Ni-Cu-Zn ferrites have been studied by Raghavender et al. [11]. They synthesis Ni-Cu-Zn nano-crystalline ferrites by oxalate based presenteer method and reported that the dielectric constant and loss of ferrites are lower than that of prepared by other synthesis techniques.

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Plantae Scientia - An International Research Journal in Botuny # Publishing Binsonthly # Open Access Journal



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RESEARCH ARTICLE

Studies on Canopy Parameters of Some Mangroves Along the Coast of Maharashtra

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CrossRef.Scientific Indexing Services (SIS) Google Scholar.Index Copernicus International (ICI) Directory of Research Journal Indexing (DRJI). CiteFactor. Scientific Journal Impact Factor (SIIF). General Impact Factor. Journal Factor. Cosinos Impact Factor. PKP Index. AJIFACTOR Indexing, etc.

ABSTRACT

Mangrove species, viz., Avicennia officinalis, Avicennia marina var. acatissima, Avicennia marina (dwarf), Rhizophora macronata, Someratia alba, Aegiceras corniculatum, Kandelia candel were chosen for measurement of height of the tree and girth or circumference. The sampling was random and at least 50 records were made. The girth is measured by the tape. The measurement of the height is made with the help of Abracy level. The Tables I to 8 records the values for girth, height and canopy cover as well as for correlation coefficient (r). There correlation between girth and canopy in all the species studied however in case of Aviennia officinalis and Aegiceras corniculatum girth and height show more corelation than girth and C. cover. The positive co-relation observed between girth and canopy is more or less 0.7 except Aviennia marina (dwarf) Eccecaria agallocha and Aegiceras corniculatum. The co-relation is observed in girth and height is difficult to explain. This case is observed in Aviennia officinalis and Aegiceras corniculatum.

Keywords : Mangroves, Canopy, Height, Girth Correlation



Effect of Biofertilizers on Chlorophyll Contents in Maize (Zea Mays L.) Variety African Tall

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| ANTICLEINFO | ABSTRACT |
|---|---|
| Keywordz | An attempt has been made to study the effect of different biofertilizers such as Antohoczer and Phoeniste |
| African tall Antohocter carotenoids Chlorophyll PSR, | notubilizing hasteria (PSB) on chlorophyll content of maine variety African Tall. The experiments were corried out in a randomized immplete block design with three replications. The biofertilizers used were Anitablochir (A), phosphate subfilling bacteria (P) and combine treatment Anitablocher + phosphate solubilizing bacteria (A + P), without treatment was control. The comparative extraction of chlorophylls (Chlorophyll a, chlorophyll b and total chlorophyll) and canteensis from maine was studied by using 80% acctione as variaction method. The studies relate to be automited of concentration of chlorophylls |
| * Corresponding author: 5-mail addresses: madhumati023shgmat Long | raroteenida between the control and treated of matte crop. Investigation revealed that method of Arnen, is simple method for extracting the pigment molecules along with other methods used for extraction and treatly showed higher content of chlorophyll-a, Chlorophyll-b, total chlorophyll and Caroteenids in the treated plants in comparison with the control plants. By the application of biofertilizers treatment levels were corresponding to (TA ₁), (TP ₁), (TA+P ₁) respectively to the treated inddees, little annuals of differences were observed in the contractations of pigments between treated and control plants selected for present works. |

1. Introduction

Maize is an important staple food crop, occupies a prominent place among cereals and first rank in terms of productivity and third in total area and production after wheat and rice while in India it strands fourth ranks next to rice, wheat and jowar in terms of area and production (IITA, 2006). Total pigment molecules present in the leaf, are chlorophyll-a, chlorophyll-h and total chlorophyll, carotunids which are essential for photosynthesis. Follet et al. (1981) reported that the chlorophyll coloration is related to the amount of nutrients absorbed by the plant from soil. Biofertilizers applied to the soil, supply plant nutrients for crop growth and serve as important instruments in yield development and physiological processes. Must plants possess chlorophyll a and chlorophyll b as the main photosynthetic pigments (Young and Britron, 1993).

Chlorophylls and carotenoids are essential pigments of higher plant assimilatory tissues and responsible for variations of color from dark-green to yellow. Moreover, they play important roles in photosynthesis capturing light energy which is converted into chemical energy (Bauernfeind, 1981). Carotenoids provide bright coloration, serve as antioxidants, and can be a source for vitamin A activity (Britton et al., 1995). Nitragen (N) is a key element in chlorophyll, therefore there is usually a high correlation between them (Schepers et al., 2005). Positive correlation of nitrogen and chlorophyll is previously reported by some researchers (Ding et al., 2005; DaManta et al., 2002). The distribution of chlorophyll is the key indicator of crop photosynthesis within maize leaves is quite homogenous at a specific growth stage indicator. Chlorophyll content of leaf tizzue is a good index of photosynthetic activity (Chowdhury and Kohri, 2003) and timing of fertilizer application (Haboudane et al., 2002; Wu et al. 2008) of crop. This crucial pigment also plays rule as an index of plant growth and production of organic matter (Lahai et al. 2003). Chlorophyll content is an indicator for crop growth and development, therefore accurate determining and assessing of chlorophyll concentration is essential (Bannari et al., 2007).

The quantification of chlorophyll and curvatenoids provides important information about the effects of environments on plant growth (Schlemmer et al., 2005). Chlorophyll concentration usually is a good indicator of plant nutrient stress, photosynthesis and growing periods, the content of chlorophyll in the plant leaves indicates the growth status of the crops, also it is the important condition for exchange of mass and energy from the outside world and therefore real-time monitoring of the content of chlorophyll is a key step to complete crop monitoring and yield estimation (Canfield et al. 1993; Rao et al. 2007;

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Research Article

SJIF Impact Factor 8.084 ISSN 2277-7105

RESPONSE OF NITROGEN AND AMINO ACID SOURCES ON DEVELOPMENT OF FUSARIUM OXYSPORUM CAUSING ROOT ROT OF SOYBEAN

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ABSTRACT

During sample collection in Maharashtra, it was observed that soybean (Glycine max L.) roots infected by Fusarium oxysporum, were found to be dominant among the diseased samples. From these samples wild sensitive (Fo-5) and highly resistant (Fo-15) isolates were identified using fungicide roko. The aim of present investigation was to evaluate nitrogen and amino acid sources on disease development of soybean caused by Fusarium oxysporum. The sensitive and resistant isolates of Fusarium oxysporum, when grown on Czapek Dox agar medium show different response to nitrogen, and amino acid sources on development

of disease on soybean. Different nitrogen sources like Sodium nitrate, ammonium nitrate, potassium nitrate and calcium nitrate were evaluated for growth response which showed variation in results. Four amino acid sources namely, Proline, Serine, Histidine and Phenyl alanine were used in this study. There was variation in the growth of the sensitive and resistant isolates on different amino acids. All these amino acids show different action on the growth of sensitive and resistant isolates. There was significant variation, in the growth of development of pathogen. *Fusarium oxysporum*, casing root of soybean, either stimulant or inhibitory, when nitrogen and amino acid sources used.

KEYWORDS: Soybean, Fusarium oxysporum, root rot, nitrogen and amino acid sources.

INTRODUCTION

Soybean [Glycine max (L.) Merrill.] is a native of northern China. It is the most important legume crop in the world. Soybean is also called 'Golden bean', 'Miracle bean' and 'Crop of planet.' Soybean is capable of fixing and utilizing atmospheric nitrogen through symbiotic

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EFFECT OF BIOFERTILIZERS ON MORPHOLOGICAL CHARACTERS AND VIELD COMPONENTS OF MAIZE (ZEA MAYS L.)VARIETY VARUN

KILADE S.K. Department of Donary Pattonimenture Dr. Vasantrandada Patil Matavidyshow, Tasgann. (MS) skkhodc2006@yshos.com

ABSTRACT

An attempt has been made to study the office of Biofertilizers viz. Americknesses of picophate solubilizing bacavia (PSB) on morphological characters and yield composite of Maine (Zon surve L.) variety - Varus at field of Bodog Dist.Surgli, Maharashtra. The experiment was carried out a randomized complete block during with three replications. The experiment was characters and yield components like plant bright, sambler of intres per plant, length of intrest, sum and could distribute and length of out are measured in car. It is reseated that, the experiment was considerably relatered in marphological characters and yield components permanents. The value of treatment measure was sumpted using basis significance difference (pr0.05).It is evident from the machined institutions treatment producing high yield in mains variety Varue.

NEVWORDN - Mame (Zee enque L.) Varun, murphological and yield

INTRODUCTION

Maine (Zeo ways L.) is a most important second army, every part of the maine plant has economic value which is the grain, ineves, such, tagget and enk are used to produce a large variety of flood and new Nood production (IITA, 2006). Apart form this, core is an important industrial new remerial and provides a large opportunity (Pacodase el., 2000). Minimplant is a freat example of Ca mode of carbon floation, plant efficiently utilizes input because of its repid growth and high biomans (Miller et al., 2010). Beyrmeander al. 2013 suggested that effact of sorroger and photplane bioferminants were evaluated positively, these were an industrial on a plant begin, nervorght, an implicit and grain yield. The productivity of maines in dependent on its mathem requirement and management particularly that of minuges, photpharm and provides and fung has reached in the devolupment of a such reager, bioferminant burrerie and fung has reached in the devolupment of a such reager, bioferminar which not only famili the numbers requirement of various and posteries build internate the corp yield and nutries assesses and assesses species buildes playing a mine in streame flucture, it has the segnetty to synthesize and assesses to considerable playing a mine in streame flucture, it has the segnetty to synthesize and assesses to mainter all streams of states in the states, it has the segnetty to synthesize and assesses to mainter allows and an input of states of streams flucture, it has the segnetty to synthesize and assesses to mainter playing a mine of



WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

Volume 10, Issue 7, 665-673. Research Article

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INVITED AGGRESSIVENESS OF TRICHODERMA SPP AGAINST FUSARIUM OXYSPORUM INCITING ROOT ROT OF SOYBEAN.

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ABSTRACT

Root rot of Soybean (Glycine nutr L.) is caused by Fanarian axyaporum. This paper describes the efficacy of Trichoderma app sociant sensitive and resistant isolates of Fanarium axyaporum by dual culture method under invitro conditions. Trichoderma atroviride, Trichoderma viride. T. harzianum, T. virenz, T. koningli and T. pseudokoningii species were used for antagonistic analy, Results indicate that all Trichoderma species showed great antagonistic activity. But among them, T. atroviride, T.koningii and T.harzianum showed 90% and 80 % antagonistic activity than others in case of sensitive isolate of test fungua. Resistant isolate of pathogen was

restricting the antagenism in some extent.

KEYWORDS: Soybaas (Glycine max L.), Pasarium azysparum, Trichudarma species dual culture.

INTRODUCTION

The main cause of reduction of the crop yield are the diseases. Plant diseases are infections which are caused by variety of pathogena namely bacteria, fungi, viruses, nemanoles, insects etc. According to the American Phytopathological Society (APS) fungi are the No. 1 cause of crop yield less from 10 to 100 % worldwide. They causes the severe diseases like root rot, late blight, downy mildew, wilt, palse seed-borns diseases, powdery mildews, rusts and amuts which having a significant impact on yield and quality, hence managing them becomes the first part of crop production (Chiranjeevi *et al.*, 2002). Soybean [Glycine max (L.) Merrill.] is a native of Northern China. It is the most important legame crop in the world. Soybean is also called 'Golden bean', 'Miracle bean' and 'Crop of planet'. Soybean is empable of fixing and utilizing atmospheric narogen through symbiotic relationship with



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Research Article

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COMPARISON OF CULTURAL AND MORPHOLOGICAL VARIATION AMONG DIFFERENT FUSARIUM OXYSPORUM ISOLATES CAUSING ROOT ROT OF SOYBEAN (GLYCINE MAX)

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ABSTRACT

18 isolates of *Fusarium axyaporum* causing root rot of soybean were recorded for its cultural and morphological variations. The *Fusarium axysporum* isolates Fo4, Fo8, Fo 11, Fo12, Fo14, Fo15, Fo16, Fo17, having the radial colony growth between diameter of 85 mm to 90 mm were among the fast growing category whereas isolates Fo1, Fo3, Fo10, Fo13, Fo18 showed colony growth between 66 mm to 80 mm classified as medium growing and bellow 64 mm growth of isolates were recorded as slow growing. The biggest size macro-conidia were obtained in isolates Fo 18 ($30 - 32 \times 5 - 6 \mu m$) whereas, the smallest size were obtained from isolate Fo6 ($11 - 13 \times 3 - 4 \mu m$). The biggest

size micro-conidia were obtained in isolate Fo18 $(7 - 10 \times 1 - 3 \mu m)$ whereas, the smallest size were obtained from isolates Fo5 and Fo6 $(2 - 4 \times 1 - 2 \mu m)$. The number of septa in macro and micro-conidia were3-4 and 0-1 respectively all conidia showed hyline nature. The Macro-conidia were sickle shaped with blunt ends and micro-conidia were round to oval. Chlamydospores were recorded from all 11 days culture of *F. oxyaporum*. The highest dry mycelium weight was obtained from the isolate Fo13 having weight 188.0 mg and minimum dry mycelium weight 133.0 mg was obtained from the isolate Fo8.

KEYWORDS: Root rot, Soybean, Variation, Conidia, Fusarium axysporum.

INTRODUCTION

Soybean (Glycine max (L) Merrill) is an important pulse food crop belongs to family Fabaceae. India is one of the largest producer of soybean in world and the major regions where soybean is cultivated are mainly Maharashtra, Karnataka, Gujarat, Andhra Pradesh. This crop is treated as golden bean because of its three dimensional utility viz. pulse, oil seed Aayushi International Interdisciplinary Research Journal (AIIRJ)

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Correlation Studies of Bhakuchi Wadi Reservoir of Sangli District, Maharashtra

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Abstract

This Investigation describes the physica- chemical profile and correlation matrix of Bhakuchi wadi perennial reservoir of Sangli in Maharashira where limitological studies were conducted from August 2016 to July 2017. The physico-chemical parameters varied seasonally. The Secchi disc values varied from [3.5 to 81.5 cm. The pH remained alkaline between 8.0 to 8.8. The dissolved anygen varied from 4.32 to 9.53 mg/l during study period. The total alkalinity values ranged between 108 and 302 mg/L The usual hardness values varied from 115 to 412 mg/l for annual period. Calcium content was fluctuated from 43.62 to 66.26 mg/l. The magnesium values are ranged between 29.71 to 34.1 mg/l. The values of total dissolved solids were observed from 200 to 310. Chlorides and total dissolved solids were maximum during summer and minimum in winter muson. The reservoir may be placed under the category of oligotrophic in winter season. In correlation matrix free carbon di-axide is negatively correlated with all parameters. Key words: Physico-chemical parameters, Carrelation coefficient, Bhakuchi wadl reservoir

Introduction .

ndia has vast fresh water resources in the form of

both lentic and lotic ecosystems. The lentic ecosystems include ponds, lakes, tanks and reservoirs. The perennial reservoirs play an important role as a valuable water resource for domestic, agriculture and aquaculture. The lentic ecosystems have long attracted attention of ecologists, both for their importance as a source of drinking water and the development of fisheries.

Several limnological studies have been carried out in this region, notable among these are of Kamat (1965), Goel et al (1988) and Bhosale et al (1994). Most of the studies were carried out in water bodies of urban area. Few of studies from rural area are reported by Hujare (2008) and Jadhav et al (2009).

The study has been designed to understand the hydrobiological features of reservoir, to assess water quality which will state the potability, suitability for fish culture and irrigation purpose.

Material And Methods Study Area:

The fresh water reservoir of Bhakuchi wadi is located in Sangli district (74º 37' N latitude and 17º 19' E longitude) of south-eastern Maharashtra, A year can be broadly divided into three seasons; summer season from March to May, rainy season from June to October and winter from November to February,

This is minor irrigation project constructed in 1988-91 in Khanapur tahsil of Sangli district. The total capacity of storage is 680.30 Mcft and dead storage is 59.96 Mcft. The catchment area of reservoir is 261.21 sq. miles.. Total length of dam including slipway is 1990 M with 150 M is only the length of slipway. It is of clear overflow type. Earthen type of dam having height of 19,70 M. Total water spread is 1207 hector having 108.80 hectare of submergence area. The bottom of reservoir is rocky. The reservoir water is formerly used for irrigation but also for washing, bathing and pisciculture activities. The reservoirs store rain water received from adjoining catchment area and is much influenced by anthropogenic activities.

1

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FIELD BOTANY

Physicochemical analysis and diversity of Chlorophyceae in four lakes of Kolhapur District Maharashtra, India.

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ISSN 2319-4361

ABSTRACT:

The diversity in Chlorophyceae (47 spp.) has been studied at four lakes (Khupire, Sawarwadi, Ganeshwadi and Palsambe) in Kolhapur district. Wherein, six orders viz. Chlorococcales (17 sp.), Volvocales (4 spp.), Zygnematales (23 spp.), Siphonales, Chaetophorales and Chladophorales (1 sp. each) have been recorded. Different physicochemical parameters from these lakes also been studied to understand their compatibility in response to algal growth. The Palasambe lake is found to susceptible for algal bloom.

KEYWORDS: Chlorophyceae, parameter, water quality, correlation, diversity

INTRODUCTION:

Contamination of water bodies has become one of the most important and common environmental problems. Two main types of pollution threats can be recognized viz., organic pollution which leads to high organic content in aquatic ecosystems and, resulting into eutrophication. It is a well-known fact that polluted water can hamper the water quality thus limiting the use of water bodies for many purposes.

Organic pollution in lentic water bodies occurs when large quantities of organic compounds from many sources are released into them. Organic pollutants originate from domestic waste, sewage water and farm water. Organic pollution can adversely affect the water quality in many ways. During the decomposition of organic waste, dissolved oxygen in the water may be used up at a greater rate than it can be replenished thus, giving rise to oxygen depletion which causes severe effects on the aquatic community. Organic effluents also commonly contain large quantities of

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Open Access

Effect of Biofertilizer changes on DPPH radical scavenging activity of Maize (Zea mays L.) Variety Eco-92

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ABSTRACT

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The objectives of this research were to evaluate the performance of 1, 1-diphenyl-2-picrylhydrazyl radical scavenging activity (DPPH) at immaturity and physiological maturity stages, to study the correlation studied antioxidant activities. The effect of different biofertilizers such as Azotobacter and Phosphate Solubilizing Bacteria (PSB) on 1.1diphenyl-2-picrylhydrazyl radical scavenging activity in the Maize (Zeo moys L.) variety Eco-92. Maize cob harvested at dry kernel stage was significant and slightly higher than cob harvest at fresh kernel stage. It revels from the figure, significantly different at (ps0.05) higher in application of hiofertilizers treatments. However, treatment with combined application of Azotobacter+PSB biofertilizer (A+P) biofertilizers had the highest 1,1-diphenyl-2-picrylhydrazyl radical scavenging activity (DPPH) as compaired to control. Overail, Azotobacter and PSB biofertilizers improved the quality and Antioxidant activity to a stronger scavenging potential.

Keywords: Azotobacter, PSB, Eco -92, DPFH etc.

INTRODUCTION

Maize (Zea mays L) being an important staple food crop after Rice and Wheat throughout the world (FAO, 2002). Maize originated from Mexico. Every part of the maize plant has economic value and cob can all he used to produce a large variety of food and nen-fuod production (IITA 2006). It has a wide variety of uses including use as a raw insterial for edible and processed food, in animal feed, and in industrial applications. In many countries, maize grains are transformed into various products. They can be roasted, boiled, fried, or ground and fermented to produce bakery products or alcoholic beverages (Rooney & Serma-Saldivar 2003).Maize grain is well-off in molecules with antioxidant characteristics, such as phenol compounds, carotenoids, anthocyanins, and flavonoids (Num ET et al. 2010). Capturing the value

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Identification of soil borne mycoflora of soybean (Glycine max) from different localities of Maharashtra state

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Research Paper - Botany

ABSTRACT

A survey of soybean (variety Ahilya) infected by different fungal diseases was carried out indifferent localities of Sangli, Kolhupur, Satam, Pune and Solapur districts of Maharashtra. During present investigation 10 different localities of soybean grown regions were examined for their disease incidence. The survey from these districts showed that there were some fungal species which showed severe diseases to soybean. It was observed that Fusarium oxysporum(Schlecht) was dominant in all 10 isolates. This report indicates the increasing importance of effective disease minagement. To design an effective method for controlling soil borne diseases of soybean further biological and chemical applications are needed.

Key words-Risariumoxysporum, Soil home mycoflora, Soyhean, Introduction

Soybean (Glycine mox (L) Menill) is an important pulse food corp belongs to family fabaceae. India is one of the largest producer of soybean (60%) in world and in India the major cultivated regions are mainly Mahanasima, Kamataka, Gujnat, Andhrapradesh This crop is treated as golden bean because of it's three dimensional utility viz. pulse, oil seed and vegetable (Anonymous, 2007). Soy oil finds a variety of uses for domestic and industrial



Insights: Social Science, Education and Humanities

BIODIVERSITY OF SPIDERS IN TASGAON TAHSIL-SANGLI DISTRICT OF MAHARASHTRA, (INDIA)

Shelake S.K¹., C.S.Gavali² and S.A. Khabade³

Department Of Zoology, P.D.V.P.Mahavidyelaya,Tasgaon-416312 , Maharashtra , India

ABSTRACT

Knowledge about the diversity, distribution and abundance of spider is very scattered in India. Spiders are common generalist predator in ecosystem, having an important role in the biological control of pest. They are good indicator of the fluctuating weather condition and change in their diversity aid to evaluate the condition of habitat. In present investigation 19 different spider species of 13 families were reported during 2019-2020.

Key words: Biodiversity, Spider, Tasgaon, Sangli, Maharashtra.

Introduction

India is rich in flora and fauna and is a mega diverse country. Spiders are the top of the lower food web in ecosystem. Spider belongs to class Arachnida of the phylum Arthropodaand rank seventh in total species diversity among other orders of animal kingdom. In the recent past 'Research Survey' show the importance of spider to human welfare. Spiders are one of the most charming and diverse invertebrate animal in the world. In all over the world 44,540 species of spider belonging to 3,924 genera of 112 families. The spider fauna of India is represented by 1520 spider species, belonging to 377 genera and 60 families (Sebastian and Peter, 2009). Spiders are air breathing exclusively carnivorous arthropods. Major contribution to the Indian spiders study were made by Tikadar (1980-'1987). Spiders are the most omnipresent and frequent predator in agricultural and natural ecosystem. Spiders are an important food source for aves, reptiles, amphibians, wasps and other animals. Due to scarcity of workers, much of the Arthropodandiversity in most of the parts of Maharashtra remains unexplored. Many spiders are nocturnal and the color variation is observed to reduce their visibility during day time (Saravan, 2006).

Study area: Tasgaon Tahsil (17.0295" N, 74.6078° E; 819.74 sq. Km.)

Material and Methods -

Equimepnts:

Pencil, Pen, Notebook, Camera (Nikon, Sony).

Location :

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Research Article

DEFLECTIONS IN GLUTATHIONE CONTENT IN SIO₂ AND ABHRAK BHASMA INFLUENCED PROTECTION IN CCl₄ INDUCED ACUTELY INTOXICATED LIVER AND KIDNEY IN MALE ALBINO RAT

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| ARTICLE INFO | ABSTRACT | |
|---|--|--|
| Article History: Received 4 th Mrach, 2020 Received in revised form 25 th April, 2020 Accepted 18 th May, 2020 Published online 28 th June, 2020 | Abhrak bhasma (Siliza ore derived product) is an Ayurvedic drug used against liver diseases. CCL, (3.00ml/kg body wt/day for 7 days) induced acute toxicity in liver and associated injury in kidney are protected by abhrak bhasma in albino rat (Buwa, 2000; Teli et al., 2013). In present work the injury was protected by abhrak bhasma (30mg and 40mg/gm wet wt. of tissue) and partially by SiO ₂ (16, 20 mg/body wet wt. of tissue) by simultaneous treatment. During the protection, CCH induced free radicals appear to be scavenged by GSH as the alterations in GSH are compared with LPO changes studied earlier in same experimental conditions (Teli and Kanase, 2020). SiO ₂ was used as silica control for drug to distinguish the role of silica from Avarystic drug. | |
| Key Words: | | |
| Abhruk Bhauma, Glutathione, CC4, SiO ₃ , LPO. | The results indicate that the silica in the form of SiO ₂ is partially potent in protection as compared to althrak bhanma. Silica in the form of althrak bhanna was fully potent to protect acutely intoxicated liver and also the associated result injury. Thus althrak bhanna protection scents to function through GSH/GSSH metabolism in liver and kidney effective through monitoring hepatic cell death and mediated effects too the same pathway and flux strengthens the natural <i>in vivo</i> pathways of liver and kidney protection in rat or behaves as a positive immunomodulator. | |

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INTRODUCTION

Abhrak bhasma is, one of the Ayurvedic medicine used independently or with other drugs and known to cure many uilments (Sharma, 1977). It was used to treat CCl₄ induced hepatotoxicity and associated kidney toxicity to study its protective and cure effects along with probable mode of action in our continued work. There are many parameters being investigated to reveal its probable mode by action/s, so that, it can be manipulated therapeutically in integrated medicine and/or the mode/s of actions can be exploited in use or to design modern drugs for various diseases.

Acute hepatotoxicity model of CCL featuring fatty degeneration of liver with specific histological architecture (Kanase, 1998; Buwa, 2000; Chougule, 2007) with associated altered histological appearance of kidney accompanied by deflected liver and kidney functions (Teli et al., 2013) has been used to test hepatoprotective and nephroprotective influences of various Ayurvedic drugs (Patil et al., 1993; Kanane, 1998) and also with abhrak bhanna (Teli et al, 2013; Teli et al, 2014; Teli and Kanase, 2020) in our earlier studies.

CCL₄ mediated acute toxicity in liver and its harmful effect on kidney is known to produce free radicals formation (Teli et al, 2015; Teli and Kanuse, 2020) to lead histological damage to liver and kidney. So also ablirak bhasma influences to protect it (Buwa, 2000). The managements of free radicals during protection of liver and kidney can be revealed through study of one of the free radicals scavengers.

Present studies were designed to illustrate the rule of glutathione a natural free radical scavenger during abhrak bhasma mediated protective action against CCI4 induced acute hepatotoxicity and associated renal toxicity as CCI4 is known to increase LPO in present experimental conditions of work (Teli and Kanase, 2020).

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ABHRAK BHASMA AND SIO, INFLUENCED FREE RADICAL STATUS IN LIVER AND KIDNEY OF CCI₄-INDUCED ACUTELY INTOXICATED MALE ALBINO RAT

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Received: 27 April 2020, Revised and Accepted: 20 June 2020

ABSTRACT

Objective: The objective of the study was to study the mechanism of action of abirsk bhasma-mediated liver and kidney protection in CO₄-induced scate bepatotoxicity-induced male altino-rats. Action of abbrak bhasma is compared with the action of SiO₄ in similar experimental conditions to differentiate the role of slicon.

Methods: Male albino rats (Rettar norvegicut) were used for experiments. The acute hepatotoxicity was induced by daily dose of CCI, (3.0 ml/kg hody we for 7 days contecutive). Concurrent treatment of abbrak bhasma in graded doses (10, 20, 30, and 40 mg) was given for 7 days (PO). SiO, (10, 20, 30, and 40 mg) is graded doses was also given is independent groups of rats as alloc control. Lipid periodidation (LPO) is liver and kidney was studied by malondialdehyde (MDA) estimations as parameter of malority and also to study protection.

Resister: CO, induced hyperotesticity (MDA levels) is partially managed by low dozen of SiO, but not by high dozen. Abhrak bhazma hepatoprotective activities were doze dependent. A 40 mg doze maintained normal levels of LPO. Althrak bhazma also protected associated renal toxicity.

Conclusion: Abneak blasma protected CO₄-induced hepatotoxicity and also associated renal toxicity. Silicon from both SiO₄ and ableak blaseta in hepatoprotection and added the potency of renal protection.

Reywords: Abhruk Bhaima, Acute Repatotosicity, Lipid Peroxidation, CC, StO.

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INTRODUCTION

As the traditional and ethnic being tested for their efficiely, new formulations of hepatoprotective drugs have also been tested to rate [1]. Our laboratory is also engaged in testing blassmax for their efficacies and probable mode of action against todoced hepatomosicity [2,3] in our earlier study, abhrak blasma and SiO, protective efficiency were tested against single dose of CO, (3.0 ml of CC)_/kg body set given ence) induced hepatotoxicity in male albino rat [4]. In the present study, the protective potency of abhrak blasma and SiO, graded doses was tested against CO, induced acute hepatotoxicity model [5].

The hepatistoxic effects of CCI, are largely fare to its active metabolite/s, including the free radicals CCI, and CCI₁₀,00 [6], causing lipid permidiative digitadation of biomenthranes leading to controlobular hepatistoxicity [7], which is referred as fatty degeneration. Metabolically produced aldebylase can act as second toxic messengers of free radicals [8]. Malondialdebyde (MDA), the cytotoxic aldebydae, is one of the final products of polyunnaturated fatty acids persuidation in the celle [9]. MDA is a major aldebyde resulting from the peroxidation of hiological times and it is an indicator of tiasse damage [10-12].

The control of lipid periodidation (LPO) is sito is important for several reasons, in particular because it contributes to the development of atherooclemsis [13]. Thus to prevent free radicals associated damage to tissues/organs or to control/management of free cuticals, drug/s are helpful. Thus, atherak bitarms and SiO₂ are used to control oxidative damage that leads to atherasclerosus and further development of attockated cardiat complications.

The experimental design evaluates the potancy of hepato and repheoprotection of althruk bitasma and distinguishes role of StO₂ also, since ablenk bitasma is derived from ores of silica.

METHODS

Male altimo rate (130-140 g such) were used for experiment. They were obtained from the departmental animal house [Reg. No. 233/ CPCSEA]. They were tassically derived from Autian nervegicar breeding pairs obtained from National Institute of Virology. Pune (Dolla). During breeding maintenance, and experimentation, the animals were provided with standard pellet diet (by Amrit Freds, Sangli, MS, India) and water ad Notices (Journg 8 mt.-9 am).

Preparation of abhrak bhasma and SiO,

Abhrak bhaima was prepared as per Rasa Raina Samaochaya [14]. SiD₂ was obtained from Incal chemical store.

Experimental schedule

A 3 ml of CCL/kg body wt of rat/day was injucted (SC) for 7 connecutive days to induce acute hepatotoxicity in animals. Graded dires (10, 20, 30, and 46 mg/kg body wt of rat) of abbrak lihatena and 5iO, were administered (PO) simultaneously with CCL.

Duars of abhrak bhanna and SoO₂ were administered with honey (PO). Roney control rats (ste animals) were also maintained. Since their results were similar to normal, they are not included in the present dats. The male allows cuts were assigned into the following groups, each containing sis animals and the various treatments were given as follows.

- Group 1 The rata were maintained as normal without any treatment.
- Group 2 Hepatotoxicsty induced by dote of 3.0 ml CO₄/kg body wt/day for 7 days
- Group 3 10 mg abhrak bhaama/kg hody wt/sby fur 7 days was given po
- Group 4 20 mg abhrait blaansa/kg body wt/day for 7 days was given po



REFLECTION OF SOCIAL WELFARE VERSUS PRIVATE BENEFITS IN HENRIK IBSEN'S PLAY AN ENEMY OF THE PEOPLE

DR. DATTATRAY BALASO THORBOLE

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ABSTRACT

The present article tries to analyze, interpret and discuss in details in the context of the major social aspect that is 'Social Welfare Versus Private Benefits' in An Enemy of the People play. The main research objective of this article is to explain how the two types of the social approaches reflected in An Enemy of the People play. The entire play is based on two important issues like Social Welfare Versus Private Benefits in which politicians use their political power for their own benefit and try to show how we are superior to those who take care of social welfare. Henrik Ibsen has shown the condition of politicians and how they misuse their power for their political purpose in this play. Social welfare versus private benefits is the protagonist and the antagonists of the present play. It means social welfare is represented in Dr. Stockman's character, a medical officer in municipal health center in a small town of Norway and a private benefit is represented in the Peter Stockman's character, the doctor stockman's elder brother and the Mayor of the town. So you can see that in this article, Henrik Ibsen shows how there is a difference between a common man and a powerful person in this world. This article is an attempt to present a real picture of how people's attitude towards to see the society in the special reference of themes like social welfare versus self-interests behavior's in this play through the various characters. Thus, the present article will help to understand to the researchers as well as students in the context of the major social aspects like Social Welfare Versus Private Benefits.

Keywords: Social Welfare, Private Benefits, Pollution, Contrast, Social Approach, Politics, Etc.

Introduction

The present study is an attempt to analyses and interprets the social welfare versus private benefits of Henrik Ibsen's play An Enenty of the People. In these plays, Ibsen skillfully illustrated the contrast between the two brothers from a social point of view. The conflict between two brothers is the central theme of this play in the context of who is doing a good work for the society. This conflict arises due to their different nature. Their devotion towards the society, development of society, public welfare, private interests, balances of

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Reflection of Humanistic Approach in Henrik Ibsen's An Enemy of the People (1882) Play

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Abstract

The present research article is related to the 'Humanistic Approach' in Henrik Ibsen's An Enemy of the People (1882) play. The main research objective of this article is to explain how humanistic approaches reflected in this play. In that regards, two things are mainly reflected in this play by the playwright. One is the portrayal of people (character) who work sincerely for the society, and the other is the people (character) who see how they can benefit themselves without considering the welfare of the society. Through the character these two different personalities the researcher has tried to show that humanistic approach in it. It is a good attempt to show what is good and had for society. Henrik Ibsen has shown the reflection of humanistic approach through the role of different characters in this play. Henrik Ibsen has shown the condition of politicians and how they misuse their power for their political purpose in this play. However, the main research objective of this article is to try to suggest that human principles should be properly nurtured for humanity while working in different fields. This article is an attempt to present a real picture of how people's attitude towards to see the society in the special reference of themes like humanistic approach in this play through the various characters. Researcher is going to discuss here in details in the context of some of the human values for humanity such as brotherhood, friendship, role and duties of press, hospitalities acceptance, recognition, appreciation, honesty, loyalty, unity, courtesy and respect etc. Thus, the present article will help to understand to the researchers as well as students in the context of the major social aspects like Humanistic Approach in Henrik Ibsen's An Enemy of the People (1882) Play.

Keywards: Social aspects, Humanistic Approach, Politic, culture, community, society, Public health, discuss etc.

Introduction:

The present research article tries to analyze, interpret and discuss in details in the context of the major social aspects 'Humanistic Approach' in *An Enemy of the People* play. *An enemy of the people* is written by Henrik Ibesn. It is appeared in 1882. *An enemy of the people* presents a complex analysis of society and class in humanistic point of view. *An enemy of the people* playwright shown that, some of the upper classes people use the power of the majority for their own benefits and try to sidestep the humanitarian approach. In this play, Ibaen shown that, how the superior class as they try to rule the minority or even the struggles or working poor people. Henrik Ibsen skillfally illustrated the contrast between the two brothers with the special reference of social aspects like humanistic approach. The conflict between two brothers is the central theme of this play in the context of humanistic approach that is doing a good work for the society, public welfare, private interests, balances of environment, pollution, water, political power, moral values, rule of government, curruption, scientific view etc. Considering all these things in

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7. Reflection of Human Values in Mulk Raj Anand's Fiction

Dr. D. B. Thorbole

Assistant Professor, Department of English, P. D. V. P. College, Tasgaon, Dist. - Sangli, (MS)

Abstract.

Mulk Raj Anand is tremendously outstanding personality as an Indian novelist, renowing essayist, socialreformer, craftsmanship commentator, editorial manager, writer, a short story author and social activist.He released additional area of scholars of novels alongside Raja Rao and R. K. Narayan and produced a lot of English literature and his supremacy in the realistic and thoughtful description of the untouched class of Indian society denotes. His virtue is as he is a socially committed novelist. Mulk Raj Anand's two novels show the reality of his early Indian society in the early twentieth century in terms of writing, including untouchability and human values.He was one of the founding fathers of Indian English novel writing in the specific context of human values. So, the present paper tries to analyze, interpret and discuss in details the term of reflection of human values in Mulk Raj Anand's fiction in the context of Indian English literature. The Indian English literary tradition is wide range in the history of English literature. Human values are the most prominent issue reflected in their writing as they face many problems in it. Indian English Literary Writing tackles the problems and frustrations of Indian cultural issues in the context of human values. According to the larger purpose of this important study, the present paper focuses on how Mulak Raj Anand's human values affect to people to people, group to group, individuals and people from all over the world. So, the present paper will help to understand the importance of human values in Mulk Raj Anand's writing to all

Key Words:- Human Values, down-trouble, underprivileged, Indian literature, humiliation, Society & Culture, Problems and Frustrations, fiction & discussion etc.

Mulk Raj Anand was a considerable respected writer, novelist, critic, editor, journalist and social activist of the twentieth century in Indian English literature.MulkrajAnand was committed to being a novelist. He has produced a good deal of literature in this literary genre, He

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Water Management: the Need of the Future

Dr. D. B. Thorbale Assistant Professor, Department of English, P. D. V. P. College, Tasgaon dbthorbole@gmail.com Mobile: 08698586898

Abstract:

The present paper tries to investigate, understand and discuss in details about theWater Management: The Need of the Future in the perspective of all human beings in the society. As we all know that well aware about the need of water and its importance. Nowadays is big problem creates about the water management in our Indian society. Water....water.....where did the water go? All of you know that today's water in the life of tomorrow. The basic needs of a human being are air, fixed, clothing, home and water. But in it, the greatest basic need of that is water. The earth is a planet in our solar system that exists in the water. Seveny-one percent of the earth is water and twenty-nine percent is land. But, ninety-nine percent of it is water alkaline and the cemaining two percent is fresh-water. So, in the present paper would be concentration on how to use of water and where it is needed. And you should have to think about it because you need water to drink. Without food, plants, trees, what would you cut? Does the business in your village and area do not require water? So usly don't you want water management? It is very needful to all human being to use and also covered laws to do water management for our fature need.

Keywords: water, management, human being, need, future, discussion, problem,

Introduction:

Doing maintenance, repairing means aren't water management. It is just part of the management. The idea beyond that is expected in management. Pacing up to the any difficult occasion may be part of maintenance or repairing. But how can such an event be avoided, there are certain things you need to do, in that situation, management is the way to research how to do water management. Irregular minfall and low groundwater levels are a consequence of future crises. This is the time to recognize the importance of water. It is the need of the period to stop the rain drops and the waters.

Water management means, it is the proper distribution of available water resources on the earth to do properly supply all living community which is called as water management. Nowadays, Due to water pollution, water resource reduction, and global temperature rise, this question is raging on all levels, from local to global. All of you know that, one of the big problems of water management arising in front of to us.Rising prices of land and displacement of locals are opposing the construction of new dams or river linking projects for water management. And it is the basic problem of water managements. In that case, the great social worker, MedhaPatkar has done awareness work in this regard worldwide. Similarly, people like Rajendra Singh, who is also the oldest Johad who created the water revolution in the state of Rajasthan and

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मानुषतेची संकल्पना आणि मुक्तिबोधांच्या कादंबऱ्या डॉ. तातोबा बदामे

गाच्चंद्र मुक्तिबोधांनी ललित वाङ्मय निर्मिती बरोबरच अतिशय मूलगामी असे मगेसलेखनही केले. नवकवितेचे प्रतिनिधित्व करणाऱ्या मुक्तिबोधांनी त्रिखंडात्मक कार्रबरी लेखनाचाही तितक्याच यशस्वी पद्धतीने प्रयत्न केला. त्यांनी मर्मग्राही व साक्षेपी मगीसलेखनही केले.

स्या काळात वा. सी. मर्ढेकर सौंदर्यवादी विचारसरणीतून कलाकृतोच्या अकृतिबंधाचे, लयतत्त्वासंबंधीचे लेखन करत होते त्या विचारसरणीला विरोध करणारी भूमिका मुक्तिबोधांनी वारंवार मांडली. मर्ढेकरांच्या लयनिष्ठ विचारसरणीला तीव्र आक्षेप पंजला. लयतत्त्ववादी भूमिकेचे जोरदार खंडण करताना वाड्भयकृतीच्या मूल्यमापनासाठी 'मनुषता' ही नवी संकल्पना त्यांनी मांडली.

'मानुषता' सारखी संकल्पना मांडणारे शाच्चंद्र मुक्तिबोध म्हणूनच दखलपात्र ^{समोक्ष}क ठरले. त्यांच्या 'सृष्टी', 'सौंदर्य आणि साहित्यमूल्य' या समीक्षा ग्रंथात दहा ^{भागांमध्ये} विस्ताराने त्यांनी ललित साहित्यकृतीच्या मूल्यांकनासाठीचा एकमेव सर्वोकृष्ट

सर्वधारा । जानेवारी-फेब्रुवारी-मार्च-२०२१ । ७३





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तौलनिक लोकसंस्कृती अभ्यास : नवे अभ्यासक्षेत्र

डॉ,तातोबा बदावे

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ः तौनविक साहित्याच्यासालून विकसित झालेली अनेक अच्यासक्षेत्र जगभगत प्रास्ताविक : तालातक साहरण के देशात गौलनिक साहित्याभ्यास स्वतंत्रपणे विकहित अन्यसमा जात जाती, जमेती, अमेरिका मांचे उदाहरण घेतल्यास तिथे अन्यत्र अला जाए. जदगमअभ्यास आणि संस्कृती अभ्यास मोठया प्रमाणावर होत असल्यात दिसून चेते. भारतात तौलनिक लोकसंस्कृती अभ्यास व्हायला हवेत. त्यासाठी प्रद पुष्टभूमी भारतात सहज उपलब्ध आहे.

तौमनिक लोकसंस्कृती जम्पास : नवे जम्पासक्षेत्र

तौलनिक लोकसंस्कृती अभ्यासक्षेत्र हे एक व्यापक अभ्यासक्षेत्र आह भारतासारच्या खंडप्राय देशात अनेक भाषा, संस्कृती, कलांचे भांडार दिसून यह भाषावार प्रांतरचना झाल्याने वरवर वेगळ्या दिसणाऱ्या प्रदेशांना विभिन्न कला. संस्कृतींनी जोइलेले आहे. भारतात साजरे केले जाणारे सण, समारंभ, वरवर केन्ट्र बाटत असने तरी ते संस्कृतीच्या आंतरीक धाग्याने एकमेकांत घट्ट विणले गेले आहे. भारतात असणारे विविध धर्म, जाती, पंथ, संग्रदाय आपापले स्वतंत्र तत्वज्ञात, आचारधर्म असुनही या विविधतेन कमालीची एकताही प्रदिम होताना दिसते. अग प्रकारच्या वैशिष्टपपूर्ण पृष्ठभूमीमुळेच भारतातील लोकसंस्कृतीचा तौलनिक अभ्यम शक्य आहे जसे बाटते.

जागतिकीकरणास अडीच ते तीन तप उलदून गेल्यानंतर आता माहिती तंत्रज्ञानाच्या युगाचा बोलवाला सर्वत्र दिसून येत आहे. संपूर्ण जग आंतरजाल, चलभाष मा तंत्रामुयांनी व्यापले आहे. जगाचे अंतर संपुष्टात आले असल्याने जगातील विभिन्न संस्कृतीचा प्रभाव व स्वीकारही वेगाने होत आहे. पाश्चात्य संस्कृतीचा भारतीयांक निश्चितपणे प्रमाव पडला असला, तरी आज पाश्चात्यांनीही भारतीय संस्कृतीय प्रमाब स्वीकारला असल्याचे उत्तम उदाहरण योगविद्येच्या आणि आयुर्वेदाव्या वयभरातला स्वीकारामुळे सहजपणे लक्षात येते. जागतिकीकरणामुळे बाहे शहरीकरण आणि तंत्रज्ञानातील प्रभावामुळे वाढते यांत्रिकीकरण सर्वत्र प्रत्ययाला ये? आहे: असे अससे तरीही लोकसांस्कृतिक वारसा लोकांनी सर्वत्र जपला असत्यार्थ दिसन यते. सांस्कृतिक अस्मिता आणि अस्मितांच्या संस्कृती :

७४ । लोकसंस्कृतीची आविष्कार रूपे

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ः संपादकः

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देशमध्ने आंधलोट,

औगोगिक बसाहन, पत्नम, (जि. सांगली) ४२६ ३१०, मो. १९७०७००००

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१९. तृतीयपंथी यांचा समाजशास्त्रीय अभ्यास

डी, विवोदकुमार धोंडीराम कुंभार

सताय्यक माण्यापक ठाणि विभागवमुख, समाजशास विभाग, थी. डी. की. थी. महाविद्यालय, तासगाव.

प्रस्तावना

णारतीय समाजात बिविय निकषावरून असणनता दिसून येते. तसेय कही समूह आजही दुर्लसित, यंथत म्हणून जीवन जगत आहेत. एतीवपंकीयांकडे समाज हिनतेच्या दृष्टिकोनातून पाहतो. त्यामुळे वृतीयपंकी व्यक्ती स्वतंत्रपणे जीवन जगण्याच्या पदातीया अवसंव करतात. तसेथ या प्रकारच्या जीवनपदार्टामुळे से समाजाव्या मुख्य मवाहत्पासून असित्व विश्व यंधेत राहिले आहेत. तसेथ आ प्रकारच्या जीवनपदार्टामुळे से समाजाव्या मुख्य मवाहत्पासून असित्व विश्व यंधेत राहिले आहेत. तसेथ आ प्रकारच्या जीवनपदार्टामुळे से समाजाव्या मुख्य मवाहत्पासून असित्व विश्व यंधेत राहिले आहेत. तसेथ आ प्रकारच्या जीवनपदार्टामुळे से समाजाव्या मुख्य मवाहत्पासून असित्व विश्व यंधेत राहिले आहेत. तसेथ असा व्यक्ती तृतीयपंचीयांव्या सम्प्राणयों सहमामी होतात. दुवीयपंथी 'समुदायाम्वज' सहमागी होणाऱ्या व्यक्तीला समुदायांचे नियम उत्तपि अटी यांचे पालन करावे लागते. ससेय समुदायाच्या प्रया आणि परंपरा यांचा स्वीकार कराया लागतो. सूतीयपंची रामुहातील काही व्यक्ती मुरुष असुनही से हित्रयांच्या कृतीचे अनुकरण करतात. काही तृतीवपंथी जन्मताथ व्यंग घेऊन जन्माला येतात तर काहीना सामाजातील अभिष्ट प्रथा-परंपरानुसार नवसासाठी देवाला सोडले जाते. यामुळे त्यांना तृतीयपंचीयांचे जीवन जगावे लागते. काही व्यर्वीजनांगच्ये झालेल्या शास्तीरिक आणि मानसिक बदलामुळे त्यांना सूतीयपंचीयांचे जीवन जगावे लागते. काही व्यर्वीजनांगच्ये झालेल्या शास्तीरिक आणि मानसिक यदलामुळे त्यांना सूतीयपंचीयांचे जीवन जगावे लागते. काही व्यर्वीतनांगच्ये झालेल्या शास्तीरिक आणि मानसिक यदलामुळे त्यांना सूतीयपंचीयांचे जीवन जगावे लागते. काही वार्यव्यानांगच्ये ल्यांन मिळत असले स्वति स्वातानुसार, पारतातील सुतीयपंचीयांची त्यंक्तव्या ८५७८०२३ आहे तर महाराष्ट्राप्तील लोगलसंच्या ४०८९१ इराळी आहे.

ष्याख्या

"तृतीयपंधी म्हणजे शर्वरेरीक पुरुष असून खांधी लेपिक ओळख, फेफ्ट्रश आणि लेपिक भूमिका स्वीप्रणणे असले. त्यांना तृतीयपंधी म्हणलात. (https://mr.wikipedia.org).

"एसावी व्यक्ती जन्मतव मैशर्मिवसित्वा लैगिक विकृती चेतुन जन्मास येतो आणि अशा वेळेस तो स्त्री सिन आहे की पुलिंग आहे हे स्पष्ट होत गाही, म्हणजेव तो नर आहे की गावी हे स्पष्ट होत नाही या विवृतीलाव आपल्या समाजात सुतीवर्षवी असे संबोधले जाते."(https://marathi.pratilipi.com)

चरिष्टे

- सुरीयपंथीयांच्या समस्यांचा अभ्यास करणे.
- कृतीयपंचीयांच्या समस्यांवर उपाययोजना सुप्रतिले.

संशोधनपद्धती

प्रस्तुत संरगेधनासाठी धर्णनात्मक संशोधन पदातीया यापर करण्यात आला आहे.

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भारतीय समाजातील सामाजिक संस्थांचे बदलते स्वरूप डॉ.विनोदकुमार बॉडीराम कुभार

सहाय्यक प्राध्यापक,समाजशास्त्र विभाग,पी.डी .की.पी.महाविद्यालय,तासगाव मोब.-९९७५५६४६२२,vinodkumarkumbhar9@gmail.com

प्रस्ताचनाः

भारतीय समाजाभध्ये जात, वर्ग आणि धर्म या तीनती संकल्पना परस्परांबर अवलंगन आहेत. भारतीय समाजामध्ये प्रामुख्याने बुटुवसंख्या, धर्मसंख्या, राज्यसंख्या, अर्थसंख्या, विवाहमंग्या प्रमाणेथ सामाजिक संस्थानच्ये जातीसंस्था ही एक मुलजूत सामाजिक संस्था म्हणून अस्तित्वात असान्धाचे दिसून चेते. भारतीय समाजामध्ये प्रत्येष व्यक्तीचे स्थान, तिथा दर्जा , समाजामध्ये राष्ट्रण्याचे नियम, जीवन जगण्याची एकुण पदाती, ही त्या व्यक्तीचीजात, वर्ग आणि धर्म यावर प्रामुख्याने अवलंगून होती. कारण समालाभधील सर्व नियमने, मुल्पे इत्यांशी जात, वर्त्त आणि धर्म यामुळे विशिष्ट रचनेमध्ये विभागलेली होती आणि समाजातील प्रत्येक व्यत्नीला या निषमांचा पालन करावे लागत होते. तसेच ज्या व्यक्तीकडून या नियमांचे पालन होत नाही, त्या व्यक्तीला कोणती शिक्षा करावी हेसुदा जात, वर्ग आणि वर्म यानुमारच उरत असे. समाजातील व्यक्तीव्या नामांची रचना सुद्धा जात, वर्ग आणि धर्म नुसारच ढरत असे, अशा या भारतीय समाजामच्ये मुख्य भूमिका बजाविणाऱ्या जात धर्म आणि वर्गे या संकल्पनामाआणि मामाजिक संस्थांचा अध्याम करणे अत्यंत महत्वपूर्ण उत्ते, तसेच यांचे स्वरूप स्वातंत्रप्राणीपूर्वी कमें होते artfit स्वातंज्यंबाणीनंतर यामध्ये कोणता वदल होत आहे याचाही अभ्याम करणे महत्वपूर्ण ठरते. मानवाच्या मुल्ठभूत गरता पूर्ण करण्यासाठी सामाजिक संस्था निर्माण ग्राएया. प्रत्येक सामाजिक संस्थेचे एक मुलभूत कार्य असते.प्रस्तूत संशोधन लेखामध्ये संशोधकाने जात, वर्ग, धर्म, विवाहसंस्था, बहुवसंस्था, शिक्षणसंस्था इत्यादीचे स्यातंत्र्यप्राण्तीपूर्वीचे स्वरूप आदि रवार्त्रज्यंप्राणीनंतर या सामाजिक सरवांमध्ये झालेले परिवर्तनाचा अभ्यास करण्याचा प्रयत्न केलेला आहे.

ਤਵਿਸਟੇ:

१.स्मातंञ्यधापीपूर्वीचे सामाजिक संग्रांचे स्वरूप स्पष्ट करणे.

२ स्वातंव्यवाणीनंतर सामाजिका संस्थांमध्ये झालेले परिवर्तनाचा अध्यास करणे. संशोधन पद्धतीः

प्रस्तुत संशोधन लेखासाठी संशोधकाने वर्णनात्मक संशोधन पदातीया वापर केलेला आहे. तमेच माहिती मंत्रातनामाठी दुव्यम ग्वोतांचा वापर करण्यात आलेला आहे. यामध्ये प्रमुख्याने संदर्भ प्रंथ, इंटरनेट इत्यादीया बापर करण्यात आलेला आहे आणि त्यानुसार मिळालेल्या माहितीये विङलेषण प्रदीलप्रमाणे काण्यात आलेले आहे.

सामाजिक संस्थाये स्वरूप आणि सामाजिक संस्थायच्ये झालेले परिवर्तन

• जातीव्यवस्थाः

डॉ.मुजुमदार व मदन यांच्या मते, " जात हा एक बंद वर्ग आहे."

जातिन्यवरभेचा अच्यास मामुखयाने डॉ.जी.एस.पूर्वे, हर्षर्ट रीजले इत्यादी अमेक समाजशाम्बतांनी केलेला दिसून येतो. डॉ.जी.एस.पुर्चे यांनी जातिल्यवस्थेची प्रमुख वैशिष्टर सामितळेली आते. त्यामध्ये समाजाधी खंडात्मक विधारणी, सोपान परंपरा, खाण्या-पिण्या संदर्धात व सामाजिक संबंधाविषयक निर्वथ, सामाजिक व धार्मिक अपावता व विशेष अधिकार, विवाहविषयक नियम, व्यवसाय स्वातंत्र्यविषयक नियम इत्यापी मुख्य वैशिष्ट्यसंदर्भात सांहणी दिसुन येते. हॉ जी एस पूर्वे यांनी जातीची वैशिष्टर सांगितली आहेत त्यायरून भारतीय समाजातील जातीव्यवस्थेचे स्वरूप समजण्याम मदत होते.

स्वातंञ्यधाप्तीपूर्वी भागुक्तयांने चारतीय समाज बार वर्णामध्ये विभागस्त तेलेला होता. यामध्ये ब्राह्मच,श्रहिय, बैंग्रय, णुद्र आणि अतिगुद्र यानुसार समाजाये विभाजन झालेले होते. तसेच प्रत्येक

Website - www.aadharsocial.com Email - aadharsocial@gmail.com.

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19. Inculcation of Human Values

Dr. Arjun Wagh

P. D. V. P. Mahavidyalaya, Tasgaon, Dist.- Sangli (MS) India.

Abstract

In earliest societies, religion had a dominating pressure in every sphere of human activity, Result was, the content of education was more or less religious in nature. Besides mesial training, moral training was emphasized to a great extent. Learners had to experience rightson character training and value-education during their stay in Gurukuls or Ashrama.

Key Word: Human Value, Inculcation

Objectives

1. To know human values

2. To understand the way to inculcate Human values among the students

Introduction

Much stress was on spiritual development of the teachers. Thus, The Entire Education System Was Primarily Value Oriented! But as the days passed by, there was a gradual erosion of values and the so-called modern education entered inside the modern world. Character training and value-education started getting ignored. Materialism, cutthroat competition, influence of Western Culture, etc. contributed a lot which resulted in all kinds of value-crisis.

Newspapers were full of news like rape of minor children, kidnapping, forgery, gase rape of girls/women, thefts, murder, killing of brides for dowry, etc. Vices like drinking, drugging, gambling etc. are now on increase. Thus, by all such quoted facts it is seen that a factor called "Contentment" has started losing the ground! Corruption has entered in all walks of life Based on the above quoted facts one can understand the strong need for the education in human values. The process of inculcating values must start right from the primary education level in other words, Education in Human Values needs to be incorporated as an integral component of the entire educational system.

After all this discussion, the question that now jumps up like a boomering is what it vale? Literally, value means something that has a price, and is precious. In a given simulat, a person may have a number of alternative responses. However, he or she chooses one which n

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Our Editors have reviewed papers with experts' committee, and they have checked the papers on their level best to stop furtive literature. Except II, the respective authors of the papers are responsible for originality of the papers and intensive thoughts in the papers. Nobody can republish these papers without pro-permission of the publisher.

- Chief & Executive Editor

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Sanskrati International Multidisciplinary Research Journal DIPACT FACTOR - (IFSED - 5, SEF (2019), (CF) - 4 The (2019) Special Issue 004 - Impact of Debandration on Socio-Economic Development in India

A GEOGRAPHICAL ANALYSIS OF LOCAL PROBLEMS IN MUNICIPAL SOLID WASTE MANAGEMENT OF SATARA CITY.

P.R.VHATKAR! Dr.A.S.PATH! Dr. 3.S. WALD!

Associate Professor Department of Geography, S. G. M. College, Kanad
Associate processor, Department of Geography, Ods. Shivaji, College, Satura
Associate professor, Department of Geography, P. D. V. P. College, Tappen.

Alutraci

Municipal solid wante management is a global environmental true which concerns along a very significant product for solar 's world. There is a considerable amount of disposal of mate without proper segregation which has lead to bask resonance and environment sufferings. It is still processed in many cines. There is a trementions amount of loss in terms of environmental degradation, benith hoping and economic descend doe to dreer disposal of waste. It is beine to supregate the many other initial initial initial initial descend doe to dreer disposal of waste. It is beine to oprion which is secon united and experiates. There is a generated, rather than going for a lower option which is secon united and experiates. There the is a generated, rather than going for a lower waste management by means of another of the same situation of the step.

The problem of solid watte management is loce from Montcopol authorses, but in the coming fature tobic wate management is if properly not measures we having the watte invation. Months in other centres generate the central scale of rolid watty Solid watte management is if not oppropriate managent we have sit, mater, tand sollarities, some discours, and distarbonces of 5 cong life out besides a let of energy. Today we are caperienced original discourse, this response, heart one becausing providents and more examples of discours in moregoer disposed of a dod mater. Sensitive and atmosts health problems are focure and atmosts's world day to response to be wate management

Keywords: Solid waste management, segregation, encoronmental degradation, disposal of solid waste.

Introduction:

The rapid increasing population, economic growth, inframination and industrial development it has resolved the high min metrossed of solid want generators. Especially in other areas, the problems of solid wante expand because more propters are inigrating towards the modelle and metro clines. Solid wante generation rate is increased day by day due to increasing population but solid worke management done from manimum authority. In India, Manorpha or local authorities provides the services of solid worke collection, transportation and disposal transmit. The solid worke collection and atorage as the dalingen bans, that hims or commission

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Water Management: Present Situation and Upcoming Challenges

Mr. Gavit Sunil Soma (Assistant Professor) P. D. V. P. Mahavidyalaya Tasgaon.

Abstract:

Water distinguishes our world compare to all the others we know about. Though the overall deliver of available freshwater is more than sufficient to meet all present and estimated water demands. The lack of sufficient fresh water to meet human intake water and hygiene needs is certainly a constraint on human fitness and production and hence on economic development as well as on the protection of a clean surroundings and healthy ecosystem. This paper identified the issue facing water managers these days and upcoming research needed to well again inform those who struggle to generate a more sustainable and attractive upcoming.

Key Word: Water management, water condition, Global Environment, Challenges etc.

Introduction:

All through the world, demographic, financial, and technological trends contain accelerate our ability to by design and naively adjust the environment we survive in and that sustain us. We human have befallen the main driver of ecological change. Our actions are impacting our overall atmosphere, with our climate. This in turn impact the amount and spatial and of time distributions of rainfall that falls on watershed and the time of its surplus. Together with change in landscape, due to increase in food and energy making and from the society of public into urban centers, we are varying the amount and quality of our freshwater wealth on which we depend to live, both actually and carefully. Water plays a role in the creation of the lot we create. There is no substitute and while it is renewable there is only a limited quantity of it.

Objectives:

To study the present situation of water condition To understand the present and upcoming challenges of water management To analyze and interpretation of about water management

Freshwater Stress:

Now a day's each one is troubled about the possible water shortage in the face of increasing, mainly population driven, water difficulty, and its penalty on our energy and food production. The universal danger Perception Survey conducted with 900 standard expert by the World Economic Forum reports that the maximum level of community shock over the next 10 years. In recent decades the gain raise in water use on a overall scale has exceed double that of population growth. This has lead to more, and larger, region in the world being subject to water stress where the present limited rates of water use and utilization, let alone the beloved rates, are invalid. Water stress and supplies are varying. What they will be in the upcoming is unsure, but it is positive that they resolve change.

Globalization:

Growing globalization is inspiring the realization of new rules and events for the international trade of goods and services, rejecting the rising cheek of global Firm engaged 'Avariant of Research & Development'

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Global Climate Change and It's Social, Economic and Environmental Consequences Sunil S. Gavit

Assistant Professor, Department of Geography, Padma Bhushan Dr. Vasantroodada Patil Mahavidyahaya. Targann Dist-Sangli (M.S.)

Abstract:

Clonate change is one of the foremost challenges of our time and adds significant stress to our society and the atmosphere. From variable weather patterns that pressure food production, to growing sea levels that boost the risk of terrible flood, the impact of climate change are global in capacity and unique in balance. Without severe action now, adapt to these impacts in the potential will be more hard and rich. This outline deals with the thought of Global Climate Change, the related conditions, causes, consequences, solutions, and its possible fitness impact. It shows the want to proceed directly if we are to let alone a permanent build-up of greenhouse gaves and global warming at a potentially wast cost to the wealth and civilization global. Therefore, address climate change require a "unique altitude of collaboration, not only among country but also between unusual levels of government, secret segment, and persons.

Keywords: greenhouse gases Global; Climate Change

Introduction:

Climate change is a severe risk to scarcity decline and could open decades of progress efforts. While climate change is universal, its harmful impacts are more strictly felt by poor citizens and poor countries. They are more helpless because of their high confidence in natural wealth and partial ability to get by with climate changeability and extreme. Restore and maintain key ecosystems can help a community in their adjustment hard work and hold up livelihoods that depend ahead on the services of these ecosystems. Affecting towards lowcarbon society can help decrease greenhouse gas emission, civilizing human fitness, and well-being and create the green job. Climate change is an actuality of days. We need to act immediately if we are to let alone a permanent build-up of greenhouse gases and global warming at a potentially vast cost to the financial system and humanity universal. Society for financial assistance and growth study suggests that if we act at present, we have ten to fifteen years of breathing space through which act is potential at a rather diffident charge. But each year of delay reduces this breathing space, while require ever more severe events to create a distinction. Present financial confusion is not a motive to wait. Its macro-financial penalty will be determined in a relatively short point, after which increase will begin again, while the penalty of functional on global warming will maintain to cultivate more and more dear over point. This study presents a summary of Global Climate Change intending to help value the idea, its pressure and to give a coming to the ways it affects civilization and the natural situation and proffering solution

Objectives:

1. To understand concept of greenhouse effect

To study social, economic and environmentalconsequences of global climate change

Methodology and Data sources:

The present research article is theoretical in nature. The data collected from various published and unpublished articles, newspapers, journalsand books.

Greenhouse Effect

A normal structure is known as the "greenhouse effect" which regulates temperature in the world. Just as wineglass in a greenhouse keeps heat in, our feeling traps the sun's heat near the earth's plane, above all during heat-trapping properties of confident "greenhouse gases". Earth is fiery by daylight. The majority of the sun's force passes during the atmosphere, to temperate the earth's plane, oceaos, and atmosphere. The normal process is well-known as the greenhouse effect. Devoid of greenhouse gases, Earth's regular hotness would be -19°C in its place of +14°C, or 33°C colder. Above the history ten thousand years, the quantity of greenhouse gases in our atmosphere has been rather steady. Then little centuries ago, their concentration begins to rise due to the growing requirement for energy caused by industrialization and growing populations, and due to shifting land use and human being settlement patterns.

Greenhouse Gases

The greenhouse gases and their sources are as below:

Water vapor is the main general greenhouse gas but others are especially important too. Some occur obviously and some approach from human being activity.

CO2: is the most significant greenhouse gas released by human activities, mostly through the burning of fossil fuels. It is the main contributor to climate change,

CH4: is formed when vegetation is burned, digested, or rotted with no O2 present. Compost dumps, rice paddies, and grazing cows and other livestock release lots of methane

N2O: can be found naturally in the environment but human being activities are growing the amounts. Nitrous oxide is at large when chemical fertilizers. Nitrous oxide is released when chemical fertilizers and measures are used in crop growing.

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Research Article

An Analysis of Spatial Distribution of Major Settlements in Nandurbar District (Ms)

Mr. Sunil Soma Gasit and Dr. A. K. Hange

Research Scholar, SRMTM University Nanded Maharashtra, India Research Guide ShivajiMahavidyalayaRenapur, Latur Maharashtra, India *Corresponding Nathor

MR. SUNIL SO MA GAVIT

Abstract: The spatial distribution of major settlements across a country and their interconnectivity and obtain ability from major settlements areas are significant for providing healthcare, allocating resources and socio-economic development. We hypothesize that there are variations in the spatial patterns of major settlements across different places in Nandurbar district that exist in accordance with different human activities and environmental conditions. We analyse and compare the spatial patterns of major settlements in Nandurbar district. The analyses highlight large inequilies in access, the isolation of many settlements in Nandurbar district.

Keywords: Settlements, Spacing.

INTRODUCTION:

Today, urbanization is common developing activity of the world. The world recognized the importance of urbanization in the economy of that place, so day by day various major settlements places are immerging throughout the world. To conserve and protect the urban and naral culture are essential for the regional development. In Nandurbar district there are various urban places are situated this all places havets own characteristics historical, cultural, geographical as wellas migious importance. These all destination are unevenly distributed all over the district. Andto study of these major settlements destinations and its distribution is very essential for the future planning.

Objectives:

 To study the classification and distribution of settlements in study region.

· To study the spacing of settlements in study region.

METHODOLOGY:

This study is based on secondary data sources. Secondary data is collected by various sources like book, journals, maps, newspapers etc. For the analysis of data nearest neighbour technique has been used.

Study Region:

Nandurbar district is the northern most district of the Mahamahtm state. Nandurbar is a tribal district bestowed with abundant natural resources. This district bounded from west and North West by Gujarat State, to the northand north east by Madhya Pradesh state, in the south Dhule district. It situated between the 17° 2° to 17° 3° North and 74° 06° to 74° 36' East longitudes. This district covers areaubout 5034.23 sq.km, 16,48,296 (2011) populations concentrated in this district. This district has Narmada and Tapi and their sub streams river aswell as mountain ranges of Satpuda.

Quick Response Code



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8. Demographical Characteristics of Mangalwedha **Tahsil in Solapur District**

Dr. Ankush Shankar Shinde Associate Professor, Department of Geography, C.B.K's B.Sc, R.V. Comm & R.J. Arts College, Alkalkot Dr. Arjun Shivaji Wagh Assistant Professor & Head, Department of Geography, P.D.V. P. College, Tasgaon, Dist-Sangli,

Abstract

Mangalwedha tahsil is located in the north-western part of Solapur district. The tahsil situated in Uthinsa and Sina river basin. It is surrounded by Pandharpur tabsil to the northern part, Mohof tahsil to the northeast part, Solapur South tahsil to the cost, Indi tahsil of Bijapur district to the southeast part, Jath tahuil of Sangali district to the south and Sangola tahuil to the west part. It's an area of 1596.09 sq. Km; the 2nd rank of tabsil in Solapur District. This tabsil has situated on the upper part of Ujjani dam in Solapur District. The latitudinal extent is 17*11*0* N to 17'37'0" North and longitudinal extent is 75'18'17" E to 75'40'14" East. This Karmala tabsil is mainly rural in character and has 123 villages according to 2011 census. The total population of tabuil was 254489 people and holds 10th rank in dutriet & literacy rate was 75.5 % and holds 7th rank in Solapor district as per 2011 census. The study is based on secondary data which is collected from census & Government documents.

Key words: Population composition, Population growth, Distribution, Socio economic Development.

Introduction

An integrated programme for the unlization of population should include long term aims and instruments for the development of human capacities, notably; professional and occupational skills may constitute the most formidable bottlenecks in the successful implementation of the programme of economic and social development. The development of population through education and vocational training should, therefore, be accorded a very high priority in the future planning and programme of economic development.

Population has both quantitative & qualitative dimension. Characteristics like the size, composition and distribution of population and skilled labour force, literacy level, the number of

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AP-10

9. Goods and Services Tax - Challenges in India

Assistant Professor & Head Department of Geography, P.D.V.P. Mahavidyalaya, Tasgaon. Mr. Ramchandra Bharat Kavitake Assistance Professor, Department of Economics, D.P. Bhosale College Tasgaon, Dist. Sangli.

L Introduction

"The goods and services tax law in India is a comprehensive, multi-stage, destinationbased tax that is levied on every value addition". Taxation policy plays a very crucial role on the economy of a country. The main source of revenue of the government comes from the taxes levied on the citizens who can be direct or indirect. When the impact and incidence falls on same person it is called as direct tax and when the impact and incidence falls on two different people i.e. The burden can be shifted to any other person it is called as indirect tax. Before the introduction of GST India had a complicated indirect tax system with multiple taxes imposed by union and state separately, with the introduction of GST all the indirect taxes will be under an umbrella and ensuring a smooth national market with high economic growth rate. GST is a single point tax levied on the supply of goods and services, right from the manufacturer to the connumer. It would bring down the prices of goods and services which in turn will help the companies as consumption will increase

- Higher threshold for registration which will exempts many small traders and service providers.
- · In the GST system, when all the taxes are integrated it would eliminate the number of compliances like return filling
- . It would help to eliminate the separate tax imposition on goods and services which requires the transaction to split its value among goods and services leading to greater complications
- GST would simplify the working procedures and would minimize the tax burden of Ecommerce and logistics companies
- Employment generation for youths as GST trained experts

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भारतातील शहरीकरण :समस्या आणि उपाययोजना

डॉ. बंडू जयसिंग कदम

सहाय्यक प्राध्यापक, अर्थशास्त्र विभाग, पद्मभूषण डॉ. वसंतरावदादा पाटील महाविद्यालय, तासगाव

प्रस्तावना

स्वातंत्र्यप्राप्तीनतंर शहराची वाढ वेगाने झाली. या वाढीबरोबर समस्या वेगाने वाढल्या आहेत.वाढती लोकसंख्या ही भारताच्या विकासातील मोठा अडथळा आहे. या वाढत्या लोकसंख्येला सोयी–सुविधा पुरविण्यासाठी शहरपातळीवर कोणकोणत्या योजना राबवायला हव्यात, याविषयीचे विश्लेषण करतानाच दुसऱ्या बाजूला वाढत्या लोकसंख्येमुळे शहराचे कसे बकालीकरण होत आहे याचाही विचार करण्यात आला आहे. थोडक्यात प्रस्तुत शोधनिबंधामध्ये आपल्या देशातील शहरीकरण निर्माण झालेल्या समस्या आणि त्या समस्यावरती उपाययोजना यावर प्रकाश टाकण्याचा प्रयत्न करण्यात आला आहे.

शहरीकरण म्हणजे काय?

शहरीकरण म्हणजे शहराच्या लोकसंख्येची व त्याच्या क्षेत्राची याढ. वाढते औद्योगिकीकरण व खेढयातून शहराकढे होणारे लोकांचे स्थलांतर यांचासुद्धा शहरीकरणामध्ये समावेश होतो. 2011 च्या जनगणनेनुसार 30.16 टक्के लोकसंख्या शहरामध्ये राहते. एका पाहणीनुसार 2030 पर्यंत जवळपास 25 कोटी अतिरिक्त लोकसंख्या शहरांमध्ये येणार आहे. असेही दिसून आले आहे, की शहरीकरण आणि विकास हे बरोबरीनेच चालतात. जी राज्ये झपाटयाने विकास करत आहेत त्यांचाच शहरीकरणाचा वेग अधिक आहे. 2012–13 सालच्या पाहणीनुसार महाराष्ट्राच्या शहरीकरणाची टक्केवारी 45.2 टक्के होती. ती 2030 पर्यंत 58 टक्के होण्याची शक्यता आहे. भारतातील 3 मोठया मेट्रो शहरांची लोकसंख्या जगातील काही देश जसे कॅनडा, मलेशिया, सौदी अरेबिया, ऑस्ट्रेलिया यांच्यापेक्षा मोठी होईल.

अम्यासाची उदिष्टे

- शहरीकरण या संकल्पनेचा अभ्यास करणे
- शहरीकरणमुळे निर्माण होणाऱ्या समस्यांचा अभ्यास करणे.
- वादत्या समस्या कमी करण्यासाठी उपाययोजना सुचविणे.

संशोधन फदती आणि तथ्य संकलन

प्रस्तुत शोधनिबंध तयार करण्यासाठी बुग्यम सामग्रीचा वापर करण्यात आला आहे. यामध्ये प्रामुख्याने वेगवेगळे संदर्भ ग्रंथ, वेगवेगळया समित्याचे अहवाल, मासिकें,वर्तमान पत्रे, इंटरनेट इत्यादीचा वापर करण्यात आला आहे. •

शहरीकरणाचे परिणाम (समस्या)



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महाराष्ट्रातील शेती : एक चिकित्सक अभ्यास

डॉ. बंद जयसिंग कटम

सहायक प्राध्यपक, अर्थशास्त्र विभाग, पो.डो.व्ही.पी. कॉलेज तासगाव. EMAIL: bjkadam! 132@gmail.com

घोषवाराः

भारतीय शेती अर्थव्यवस्थेचा कणा आहे. १९९१ मध्ये नवीन धोरणाचा स्वीकार केला गेला. त्यास आज २७ वर्षे पूर्ण झाली आहेत. ६८.७: लोकसंख्या आजही शेती व पूरक व्यवसायावर अवलंबून आहे. नियोजनाचा स्वीकार करून आज ६७ वर्षे पूर्ण झाली तरी नैसर्गिक साधन संपत्तीवर संपूर्ण अर्थव्यवस्था अवलंबून आहे. टुष्काळ, आतिवृष्टी, गारपीठ अशा सर्व नैसर्गिक आपत्तीचा सामना शेतकरी करत आहे. प्रतिकुलतेवर मात करत आर्थिक विकासाचा दर बदलत आहे. कथी केसी तर कथी जास्त अशी शेती विकासदराची स्थिती आहे. प्रस्तुत शोधनिषधामध्ये महाराष्ट्रातील शेतीवर प्रकाश टाकण्याचा प्रयत्न करण्यात आला आहे.

प्रस्तावना-

भारतीय शेती अर्थव्यवस्थेचा कणा आहे. 1991 मध्ये नवीन धोरणाचा स्वीकार केला गेला. त्यास आज 27 वर्षे पूर्ण झाली आहेत. 68.7% लोकसंख्या आजही शेती व पूरक व्यवसायावर अवलंबून आहे. नियोजनाचा स्वीकार करून आज 67 वर्षे पूर्ण झाली तरी नैसर्गिक साधन संपत्तीवर संपूर्ण अर्थव्यवस्था अवलंबून आहे. दुष्काळ, अतिवृष्टी, गारपीठ अशा सर्व नैसर्गिक आपर्तींचा सामना शेतकरी करत आहे. प्रतिकुलतेवर मात करत आर्थिक विकासाचा दर बदलत आहे. कधी कमी तर कथी जास्त अशी शेती विकासदराची स्थिती आहे.

देशाच्या तुलनेत महाराष्ट्राचे भौगोलिक क्षेत्र 9.4% आहे. तर शेत जमीन क्षेत्र 12.3% आहे. शेती उत्पादनासाठी 11.6% इतके क्षेत्र उपलब्ध आहे. देशाच्या स्थूल उत्पन्नामध्ये 23.2 महाराष्ट्राचा वाटा आहे. महाराष्ट्राची 11.24 कोटी लोकसंख्या 2011 च्या जनगणनेनुसार आहे.

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DRAGON FRUIT: GATEWAY TO PROSPERITY FOR DROUGHT STRICKEN FARMERS IN SANGLI DISTRICT

DR. AMOL GOWARDHAN SONAWALE

Padmabhushan Dr. Vasantraodada Patil, Mahavidyalaya, Tasgaon (MH) Affiliated to Shivaji University, Kolhapur

ABSTRACT

This research paper is an investigative study which is based on secondary data. Secondary data resources which are previously available, it refers to data which has been collect and analysed by someone else. Dragon fruit is a climbing vine cactus species which has invigorated universal recognition, first as an attractive plant and then as a fruit a fruit crop. There is worldwide demand increase for dragon fruit because of its matritional value as well as its medicinal properties. It indicates importance of this fruit in the horticulture export. Natural environment of Sangli district is favourable for production of dragon fruit having good quality with law cost in whole the year. Gross production of dragon fruit in Sangli district shows positive change, at the end of the year 20219-20 gross production and cultivated area of dragon fruit was near about 900 tonne and 550 acre respectively. This indicates conomical importance of dragon fruit production in Sangli district, This indicates that dragon fruit production is gateway to prosperity for drought stricken farmers in Sangli district.

KEYWORDS

Dragon fruit, Drought

INTRODUCTION

Dragon fruit is a climbing vine cactus species which has invigorated universal recognition, first as an attractive plant and then as a fruit a fruit crop. Its fruit is the most gorgeous in the family Cactaceae with a bright red skin studded with green scales and white or red flesh with tiny black seeds. The flower is so gorgeous that it is nicknamed as "Noble Woman" or "Queen of Night". The juicy flesh of the fruit is full of flavour in taste. It is well accepted as a new crop in Australia, China, Israel, Malaysia, Nicaragua, Taiwan and Vietnam. It Vietnam, it has become a major export, which fetches a higher price than even Durian, the "King of Fruits" in Southeast Asia. The main limitation is that the establishment cost is high due to the use of trellises for climbing. However, the cost of establishment will depend on the type of trellises used, and knowledge shows that a relatively cheap trellising is sufficient. The other agronomic practices are easy and a lesser amount of expensive, maintenance cost is low and aftercare is minimal due to fewer pest and disease attacks. The biggest advantages of this crop are that once planted, it will grow for about twenty years and one hectare could accommodate

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Impact Of Covid-19 On Digital Payments In India An Overview **Dr.Sonawale Amol Gowardhan**

Department of Commerce P.D.V.P. Mhavidyalaya, Tasgaon

Abstract

The worldwide spread of the COVID-19 pundemic has disrupted how people buy goods and services and how they take in e-commerce. The uniform lockdown rules across India and the growing uncertainty among communers to go outside and slop for necessary goods have tilted the nation towards e-commerce. The world has been moving towards all things digital for some time now. However, the year 2020 put into perspective the dire need to adapt to digital technology as soon as penalble. This adaptation happened almost instantly with the lockdown coming into effect, especially fordigital payments in India. The share of digital transactions in the total volume of non-cash retail payments increased to 97.0 % during 2019-20, up from 95.4 per cent in the previous year. The decline in digital transactions during the lockdown period is suggestive of the addition of the digital economy with the real economy. Empirical analysis for the period 2009-2019 supported statistically significant unidirectional Granger causal relationship from the growth of nominal GDP and private final consumption expenditure (PFCE) to the growth of digital and retail transaction value. Key Words: E-Commerce, Digital Payment, Covid-19

Introduction

The worldwide spread of the COVID-19 pandemic has disrupted how people buy goods and services and how they take in e-commerce. The uniform lockdown rules across India and the growing uncertainty among communers to go outside and shop for necessary goods have tilled the nation towards e-commerce.Consumers have switched from shops, supermarkets, and shopping mails to online portals for the purchase of goods, ranging from basic commodities to branded goods. Since the norm of social distancing has been initiated for almost the entirety of year 2020, the scope of online purchases and online businesses is expected to rash. Many people are implementation the concept of online retail and the surge in FTUs (First Time Users) on e-commerce sites is visible.

COVID-19 has been remarkably different from what we have ever witnessed. As the world was forced into complete shutdown, it's safe to say that e-contenence was the economy grace, helping millions of people stay home and procure what they wanted at their doorstep. "Customers want to avoid stepping out unless it's very critical. We are helping customers who are stuck in that situation, and we are able to play a small part in helping (cater) to their needs," - Gopul Pillai, Vice President for Seller Services at Amazon India Business data platform Statista stated that the consumer retail segment is expected to see an increase in losses ranging from 3-23%, depending on the market. The report even included that the average retail e-commerce revenue per user in the nation was \$50 as of 2018, and is expected to go up till \$75 by 2024. In the difficulty of things, lack of output during the countrywide lockdown resulted in the loss of jobs, pay cuts, and finances. Shutting down of shops and family-based businesses has made many people influence towards online. retail to meet their financial requirements.

Objectives of the study

1. To the study of digital payment system.

2. To examine the impact of Covid-19 on digital payments.

Research Methodology

The present study is based on secondary data. This is collected from books, journals and websites.

Digital Payment in India

74

Website - www.aadharsocial.com Email - andharsoxial@gmail.com.

B.Aadhar' International Peer-Reviewed Indexed Research Journal ISSN: Impact Factor - (SJIF) -7.675, Issue NO, 276 (CCLXXVII) B 2021

2278-9308 March,

The world has been moving towards all things digital for some time now. However, the year 2020 nut into perspective the dire need to adapt to divital technology at soon as possible. This



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Ajanta Prakashan

VOLUME - X, ISSUE - I - AUGUST - JANUARY - 2021-22 GENIUS - ISSN - 2279 - 0489 - IMPACT FACTOR - 6.631 (www.sjifactur.com)

१२. कोरोना आणि भारतीय शेती : वास्तव आणि उपाययोजना

श्री, अमोल गोवर्धन सोनवले

सहाय्यक प्राध्यापक आणि विभाग प्रमुख, पद्मभूषण डॉ. बसंतदादा पाटील महाविद्यालय, तासगाय, ता. तासगाय, जि. सांगती. (संतर्जनत शिवाजी विद्यापेठ, कोलाएर,)

डॉ. बंदू जयसिंग कदम

सहाय्यक प्राप्तापक, अर्थशाख विभाग, पद्मभूषण वर्सलदाद पाठील महाविधालय, तासगाब, ता. तासगाब, ति. सांगली. (संलग्भित हिवाली विधापीठ, बोरकाप्र.)

धोषवारा

चीनमध्ये आलेल्या कोरोना विषाणुच्या साधीने हाहाकार एडवला होता बघला व्यथला कांग्रेशन वा महानारीने वैमान घालले. जागतिक आरोग्य संघटनेने या विषाणुमुळे होणान्या आजाराचे अधिकृत नामकरण COVID-19 असे केले आहे. या रोगाने जगामधील सुमारे 2.97.765 वळी घेलले आहेत. मार्थ 2020 पासून हा रोग मारताल संबन्धित झाला होता बचता बचता संपूर्ण भारतामध्ये या रोगाने वैमान घालले. परिणामी वाढता प्रशार रोवाण्यासाठी मारतात जनता कपयू घोषित करावा लागला: ल्यानंतर लगेव लॉकडाऊन, बाजारपंठा बंद झाल्या, याहतूक बंद करण्यात आली, प्रयास करण्याचर निर्बंध घालण्यात आले. या सर्वाधा परिणाम कृथीप्रधान अर्थव्यवस्थंतर झाला याले विवेधन सदर रोघनिवेदामध्ये करण्याचा प्रयत्न केला आहे.

1. प्रस्तावना

षीनमध्ये आलेल्या कोरोना विषाणुष्या साधीने हाहाकार उठवला होता. बातता बघता जगभरात कोरोना या महानारीने धैमान घातले धानतिक आरोग्य संघटनेने या विषाणुमुळे होणा--या आजाराचे अधिवृत नामवारण COVID-19 उस्ते केले आहे. या रोगाने जनामधील सुमारे 2,97,765 बळी घेतले आहेत. मार्च 2020 पासून हा रोग भारतात शंकमित झाला होता. बघता बघता संपूर्ण भारतामध्ये या रोगाने धैमान घातले. परिणामी वाढता प्रसार रोखण्यासाठी मारतात जनता कृष्यू घोषित करावा लागत्ता त्यानंतर लगेच लॉकढाऊन, बाजारपेता बंद झाल्या, वाहतूक बंद करण्यात आली, प्रयास करण्यावर निर्बय घालण्यात आले. या सर्वांचा परिणाम कृषीप्रधान आर्थव्यवस्थेयर झाला यांचे विवेचन सदर लेखामध्ये करण्याचा प्रवान केला आहे.

ग्रेती आणि होतीही संबधित कामे याथा विधार केला तर होती आणि होतकरी अनेक स्थित्यतरातून जात आहे. नोटबंदी, जीएसटीमुळे होतीविषयक सावनात खरेदी करताना होतक-यायर पढलेला आर्थिक ताण आणि आता लॉकडाऊन यामुळे होती आणि होतकरी हटाबल झालेला दिशुन येत आहे.या लॉकडाऊनच्या काजात सरकारने होतीही निपढीत सगळ्या कामांना मुमा दिली असली तरी होतक-याच्या खरीपाच्या होतीसाठी होतक-याच्या हातात पैसा कोते तिल्लक आहे.

मराष्ट्री आग - ३ / Peer Reviewed Referred and UGC Listed Journal No. : 47100

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155N ±

The Study of Pomegranate Supply Chain Management in Pandharpur Taluka

Dr. Amel Gewardhan Sonawale P.D.V.P. Mahavidyalaya, Tasgaou sundesimaneces fit growth even

Introduction :

India is one of the leading countries in pomegranate production and more than 1.32 lakh hectares area is under cultivation presently. Out of this, nearly 94,000 hectares area is covered in Maharaslatra, which produces fruits of over one lakh metric tonnes worth about Rs. 400 centes. Pomegranate is the most important fluit crop of the tropical and subtropical region. High yielding, better keeping quality and possibilities to thrive the plant into rest period when irrigation potential is low, pomegranate is commercially cultivated in Solapur, Sangli, Nashik, Ahmednagae, Pune, Dhule, Aurangabad, Satara, Osmanabad and Latur districts (Maharashira), Bijapur, Bagalkot, Koppal, Chitradurga and Tumkur Districts (Kamataka) and to a smaller extent in Gujarat, Rajasthan, Uttar Pradesh, Andhra Pradesh and Tamil Nadu. At the global level. India is the world's largest producer of pomegranates followed by Iran. Other countries like Turkey, France, Annenia, Cyprus, Egypt, Italy and Palestine also cultivate this product. At present good quality pomegranates come from tarkey. Iran. Afghanistan, Syria, Morocco and Spain. India exports pomegranates to the Gulf countries, the European Union. Asian comtries, Pacific-Rim countries. China, USA and Canada. As far as country-wise export of pomegranates for 2009-10 is concerned, UAE is the major buyer followed by Bangladesh, the Netherlands and Sandi Arabia. Even though there appears to be an increase in the Colum of exports from India over these years, the country export is only 4 percent of its production while Spain exports about 75 percent of its estimated production. This is in spite of the fact that India is the largest producer In India, Maharashtra is the leading producer of pomegramates followed by of pemegranale. Kamataka. Andlara Pradesh. Gujarat and Tamihadu. To a smaller extent, it is also grown in Rajasthan and Himachal Pradesh. It is cultivated commercially in Solapur, Sangli, Nishik, Alunednogar, Pune, Dhule, Aurangahad, Satara, Osmanabad and Latur district of Maharashtra.

Objectives:

Keeping the above aspects in consideration the study have been carried our with the following objectives

- 1. To examine and evaluate supply chain management of pomegranate at farm level in the study area.
- 2. To examine price spread of pomegranate.

Research Methodology and Research Design :

This section explains about sample design, data collection methods, data analysis, instruments used for data collection, framework and analysis.

Data Collection :

The present study is concerned with the study of pomegranate supply chain management in Pandharpur Tahika. So the required data for the study were collected from Primary and Secondary Sources.

Website - www.researchjourney.uet

Email - researchjourney2014gmail.com

Our Heritage

85N: 0474-9010 Vol-68-Special touve Nuy 25-3120 2020

Development of Rural Entrepreneurship In India

Dr. Amol Gowardhan Sonawale PDVP Mahavidyalaya, Tasgaon amolcommerce/@gmail.com

1.1 Introduction

The term entrepreneur is a relatively new term and concept used in economic study. Because of its increasing significance in economic subject over the period it has become the catchphrase in the economic literature. However it has been defined differently by different writers and thinkers. An entrepreneur is an individual who, rather than working as an employee, founds and runs a small business, assuming all the risks and plunder of the venture. The entrepreneur is commonly seen as an innovator, a source of new ideas, goods, services and business or actions. Rural entrepreneurs are those who carry out entrepreneurial activities by establishing industrial and business units in the rural sector of the economy. In other words, establishing industrial and business units in the rural areas refers to rural entrepreneurship. In simple words, rural entrepreneurship implies entrepreneurship emerging in rural areas. Or, say, rural entrepreneurship implies rural industrialization. Thus, we can say, entrepreneurship precedes industrialization.

1.2 Objectives

1. To study the concept of rural development.

2.' To study the development need of rural entrepreneurship in India.

1.3 Research Methodology:

The present study is based on secondary data. This is collected from books, journals and websites.

1.4 Rural Development

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March- 2020

SPORTS TRAINING METHODS

Prof. Ajit Kalgonda Patil

Director Physical Education, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Email Id: ajitp7734@gmail.com Contact No: 9860290142

ABSTRACT:

Training is extremely important and should form an integral part of all elite athlete's daily routines. Training allows the body to gradually build up strength and endurance, improve skill levels and build motivation, ambition and confidence. Training also allows athletes to gain more knowledge of their sport as well as enabling them to learn about the importance of having a healthy mind and body. In terms of physical effects of training, regular exercise increases muscle tone, facilitates good circulation training, improves strength, agility and flexibility and improves the rate of waste product disposal. Regular training also speeds up recovery time following physical exercise; this enables the body to cope with the demands of training more effectively and makes it more resistant to injury and illness. Training also has benefits for mental health as it improves concentration and increases self-esteem. Experts recommend training is varied and tailored to specific individual or team needs; this helps to keep players motivated. establish individual and team goals and improve cohesion. Athletes should take care to rest fully between training sessions; this will help to prevent overtraining, which can have negative effects on performance and contributes to injuries. Training should be serious and demanding but it should also be enjoyable; this will boost morale and help to keep players interested and relaxed. Sessions should not be too easy or too demanding; they should be pitched at the appropriate level to facilitate improvement but prevent injury and a lack of self-confidence.

1. Introduction

Training in this way combines extreme, vigorous periods of fast running or aerobic exercise with periods of slower running, allowing the athlete to recover a bit before resuming fast running. When an athlete trains in the hard, fast run, oxygen deprivation occurs and lactic acid builds up in the muscle tissues. During the slower running, or recovery, the heart and lungs work hard to provide oxygen, which helps break down the lactic acid. The stresses of interval training help to strengthen the heart, improve uptake of oxygen and get rid of lactic acid more efficiently.

INDEXED, PEER-REVIEWED, REFEREED INTERNATIONAL JOURNAL www.simrj.org.in Email ID: editorsimrj@gmail.com

Page 18

Design, synthesis and Pharmacological investigation of pyridine-4-yl triphenyl pyrazol-4-yl-thio-1,3,4oxadiazole derivatives

Ajay N. Ambhore¹, Arjun S. Kumbhar¹, Vishwas D. Suryawanshi¹, Bhaskar S. Dawane² ¹Deptartment of Chemistry, PDVP College, Tasgaon. Sangli (MS) ²School of Chemical Science, SRTMU Nanded (MS)

Abstract

Synthesis of heterocyclic compounds incorporating pyrazole and 1,3,4 oxadiazole nucleus have provoked interest because of its extensive range of pharmacological properties. In molecular hybridization, two pharmacophore units having varied mode of action are incorporated in a single molecule. Such type or technique enhances the activity of that molecule. By keeping this prospective in mind numerous heterocycles are synthesized by various methods.

In this section we report the synthesis of triphenyl pyrazolyl-thio-1,3,4-oxadiazole derivatives (7a-s) by using Bleaching Earth Clay (pH 12.5) and PEG-400 as a green reaction media. All these synthesized compounds were characterized by spectral data and screened for their antibacterial and antioxidant activity. Most of the synthesized compounds display remarkable activity.

Keywords: pyrazole 1,3,4 oxadiazole, PEG-400, BEC, Antibacterial, Antioxidant activity

I. Introduction and Review of Literature

During the past years several extensive evidences have been collected which prove the emergence or microorganism resistance. Generally, bacteria have a power to transmit and acquire resistance to drug genetically¹. The development of resistance is shown in nearly all class of bacterial strain and become major public health concern worldwide². Therefore, to design new class of antibacterial agents is a growing need and very important task for the researcher.

IJRAR19K3214 International Journal of Research and Analytical Reviews (IJRAR) www.ijrar.org 589

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IJRAR19K3214 International Journal of Research and Analytical Reviews (IJRAR) www.ijrar.org 589

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Polymer supported reagent as a reusable catalyst for an efficient acid catalyzed cyclisation

Vishwas D. Suryawanshi, Arjun Kumbhar, Ajay Ambhore

Post Graduate Department of Chemistry, PDVP Mahavidyalaya Tasgaon, Maharashtra, India

Abstract

.The acid catalyzed cyclisation reactions were carried out in the presence of catalytic amount of catior exchange resins; the reaction conditions were mild and the yields of the target products were good. The polymeric catalyst was easily recovered, purified and regenerated, ready to be used in further reactions. This protocol offers several advantages including high yield, short reaction time, easy work-up and use of relatively moderate acidic and safe catalyst. It also allows a greener process, since no waste generation and resins are reused repeatedly. Some reusable polymeric SO3H-functionalized cation exchange resins like Amberlite IR-120 have been used as catalysts. The products could simply be separated from the catalyst by filtration and the catalyst could be regenerated and reused for several times without noticeably decreasing the catalytic activity and yield.

Keywards: polymeric catalyst, cation exchange resins, greener process

Introduction:

In the field of polymer chemistry great process has been made over last two decades. Polymer chemistry has become famous since synthetic organic chemical reaction give a byproduct which can sometimes be difficult to isolate from the desired product. On the other hand if a polymer reagent is used in the organic synthesis, then the by-product will remain attached to the insoluble polymer and can be separated from the desired product by simple filtration. In electrophilic aromatic substitutions, non-generable catalysts such as metal chlorides and mineral acids are generally applied. Substitution of these by cation exchange resins result in simplified product recovery and reduction of undesirable waste stream [1-5]. We are especially interested in developing the potential use of simple, inexpensive catalysts. In recent years, organic reactions on solid phase have received considerable interest in organic synthesis because of their ease of handling, enhanced reaction rate, greater selectivity, and simple work-up.

Heterocyclic compounds particularly five or six membered ring compounds have occupied the firs place among various classes of organic compounds for their biological and pharmacological activities. [6,7] Quinoline moiety is an important class of N-containing heterocyclic compound widely used as key building blocks for pharmaceutical agents.

Quinolines, quinolones and its derivatives are important classes of compounds. The development of new efficient synthetic strategies for the synthesis of quinolones has considerable interest. Quinoline and its derivatives have attracted great interest because of their importance in the synthetic organic and medicina chemistry. Arylamines condenses with the ketonic carbonyl group to isomeric 2-quinolones [8]. Most of the quinolone derivatives are prepared by the ring formation reactions. Knorr [9] discovered that the IJRAR19K3216 International Journal of Research and Analytical Reviews (IJRAR) www.ljrar.org

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Accepted Manuscript

Title: Design, synthesis and in silico study of pyridine based 1,3,4-oxadiazole embedded hydrazinecarbothioamide derivatives as potent anti-tubercular agent





N. Kadam, Rahul D. Kamble, Madhav J. Hebade, Shrikant V. Hese, Milind V. Gaikwad, Rohan J. Meshram, Rajesh N. Gacche, Bhaskar S. Dawane

PII: DOI: Reference:

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www.ijrar.org (E-ISSN 2348-1269, P- ISSN 2349-5138)

GREEN AND EFFICIENT SYNTHESIS OF TETRAHYDROBENZO[b]PYRAN DERIVATIVES USING NATURAL CATALYST

S. D. Jadhav, S. A. Damate and M. U. Patil

Department of Chemistry, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon.

Keywords: Tetrahydrobenzo[b] pyran, Limonia acidissima ash, natural catalyst Abstract:

A short and simple synthesis of Tetrahydrobenzo[b]pyran derivatives was accomplished in good yields by the reaction of dimedone, malononitrile or *b*-naphthol and aldehydes by using *Limonia acidissima* ash as a natural efficient catalyst. The remarkable advantages offered by this method include green inexpensive catalyst, mild reaction conditions, fast reaction rate and good to excellent yield of products. Use of catalyst obtained from natural resources makes the method greener without formation of any hazardous waste materials.

The novel methodology maintains atom economy and an environmentally friendly approach.

Introduction:

The discovery of new synthetic methodologies to facilitate the preparation of organic compounds is necessary for the research activities in the field of modern organic, bioorganic and medicinal chemistry. For this, it is necessary to perform efficient chemical transformations, multicomponent condensations by catalytic processes avoiding use of excess of solvents and expensive purification techniques.

Tetrahydrobenzo(b)pyran derivatives are an important class of heterocyclic compound having important pharmaceutical and biological activities. These compounds are potential biodegradable agrochemicals¹, photoactive materials², cosmetics and pigments³. These derivatives can be used as potent antibacterial such as rhodomyrtone pigments, photoactive materials⁴. The derivatives of tetrahydrobenzo[b]pyran show biological properties as antioxidant⁵, spasmolytic and anti-HIV⁶, anticancer⁷, diuretic⁸ and anti-anaphylactic activities⁸.

Various synthetic methods have been reported for the synthesis of tetrahydrobenzo[b]pyran derivatives using different catalysts such as (NH₄)₂HPO₄¹⁰, K₃PO₄¹¹, Ru(II) complex¹², L-proline¹³, phenylboronic acid¹⁴ and cerium(III) chloride¹⁵ 1,4–diazabicyclo [2,2,2] octain¹⁶, silica nanoparticals¹⁷, sulfonic acid functionalized silica¹⁸, amino functionalized silica gel¹⁹ and ionic liquids²⁰.

Various parts of *Limonia acidissima* are prescribed as medicine for the treatment of various ailments.²¹ Fruits are refrigerant, stomachic, stimulant, astringent, diuretic, cardio tonic, good for asthma. Leaves extract has phytochemical and anti microbial activity²². *Limonia acidissima* is a moderate sized tree grown throughout India. It is an aromatic, slow growing plant grows all over India in dry and warm areas.

EXPERIMENTAL METHODS

Preparation of CLAS Catalyst:

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GREEN AND EFFICIENT SYNTHESIS OF TETRAHYDROBENZO[b]PYRAN DERIVATIVES USING NATURAL CATALYST

S. D. Jadhav, S. A. Damate and M. U. Patil

Department of Chemistry, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon.

Keywords: Tetrahydrobenzo[b] pyran, Limonia acidissima ash, natural catalyst Abstract:

A short and simple synthesis of Tetrahydrobenzo[b]pyran derivatives was accomplished in good yields by the reaction of dimedone, malononitrile or *b*-naphthol and aldehydes by using *Limonia acidissima* ash as a natural efficient catalyst. The remarkable advantages offered by this method include green inexpensive catalyst, mild reaction conditions, fast reaction rate and good to excellent yield of products. Use of catalyst obtained from natural resources makes the method greener without formation of any hazardous waste materials.

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EXPERIMENTAL METHODS

Preparation of CLAS Catalyst:

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A lemon juice catalysed synthesis of quinoxaline derivatives: as a green approach

Megha U. Patil¹, Sachinkumar K. Shinde¹, Swati D. Jadhav¹, Suresh S. Patil², Madhukar Deshmukh³

¹Synthetic research Laboratory, PG Department of chemistry, Padmbhushan Dr.Vasantraodadapatil college, Tasgaon, Dist. Sangli (MS) India-416312 (Affiliated to Shivaji University, Kolhapur). ²Green Research Laboratory, SMDBS College, Miraj, Dist. Sangli (MS) India-416 410 (Affiliated to Shivaji University, Kolhapur). ³Department of Chemistry, Shivaji University, Kolhapur (MS), India-416 002.

ABSTRACT: In the present investigation, we have developed an efficient and greener protocol for the synthesis of quinoaxalines via two component one-pot condensation between benzil and orthophenylenediamine (OPD) under Leman juice as a catalyst. Leman juice catalyst was found to be highly efficient, inexpensive, environmentally benign, non-tasic and ecofriendly. This solvent free approach was completely nonpollating having several advantages such as mild reaction condition with good to excellent yield in short reaction time with simple workup procedure.

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I. Introduction

Family of quinoxaline skeleton exhibit the source of some bactericides,¹ antitumor agents,¹ herbicides,¹ insecticides,⁴ fungicides.⁶ Also, they are used in dyes,⁶ building blocks for the synthesis of organic semiconductors,⁷ cavitands,⁸ DNA cleaving agents,⁹dehydroannulenes, ¹⁰ and electrical-photochemical materials.¹¹ Literature data reveals that various catalytic systems were employed for the synthesis of substituted quinoxalines. Most common method relies on the condensation of 1,2-diamines with a-dilectones under microwave irradiation,¹² and the use ofzeolites,¹¹ H₆P₂W₁₈O₈₂.24H2O, and ionic liquids¹⁴ as a catalyst. Conversely, most of the traditional processes have no agreement with the green chemistry protocols which limit their use under the aspect of environmentally benign processes¹⁵.

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Scheme 1

The main ingredients of the extract of *Citrus limonium*species of lemon are minerals (0.3%), ascorbic acid or vitamin-C (0.5%), fat (0.9%), protein (1%), fibres (1.6%), citric acid (5-7%), carbohydrates (11.2%), moisture (85%) and some other organic acids¹⁶⁴. The juice is soluble in water. Due to presence of ascorbic acid and citric acid, lemon juice is acidic (pH= 2-3) in nature, and thus it works as acid catalyst in organic reactions.Conventional uses of lemon juice are cooking, industrial and medicinal. Nowadays the lemon juice plays important role of catalyst in organic synthesis.

11. RESULTS AND DISSUSION

Fresh lemon was collected from home garden in Tasgaon area, washed with water cut by using knife and then pieces were pressed in a fruit juice to get the juice extract. Then the juice was filtered through filter paper to remove solid material and to get clear juice which is used as a catalyst.

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Megha U. Patil¹, Sachinkumar K. Shinde¹, Swati D. Jadhav¹, Suresh S. Patil², Madhukar Deshmukh³

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Eggshell derived catalyst: An environmentally benign approach for versatilesynthesis of pyrano[2,3-c]pyrazole derivatives

Sachinkumar K. Shindea", Megha U. Patila, and Suresh S. Patila"

Synthetic research Laboratory, PG Department of chemistry, Padmbhushan Dr.Vasantraodada patil college, Tasgaon, Dist. Sangli (MS) India-416312.

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KEYWORDS: Waste derived catalyst; Eggshell; Pyrano[2,3-c]pyrazoles;Aqueous condition; Green chemistry.

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Abstract

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2-amino-4H-chromenes Calotropis gigantea, ZnO nanoparticle, heterogeneous base catalyst, green protocole.

Introduction

In nanotechnology, a particle is defined as a small object that behaves as a whole unit with respect to its transport and properties. Particles are further classified according to diameter. Coarse particles cover a range between 2,500 and 10,000 nanometers. Fine particles are sized between 100 and 2,500 nanometers.¹

Nanoparticles may or may not exhibit size-related properties that differ significantly from those observed in fine particles or bulk materials. Although the size of most molecules would fit into the above outline, individual molecules are usually not referred to as nanoparticles.Nanoparticle research is currently an area of intense scientific interest due to a wide variety of potential applications in biomedical, optical and electronic fields.Nanotechnology involves manipulating properties and structures at the nanoscale, often involving dimensions that are just tiny fractions of the width of a human hair. Nanotechnology is already being used in products in its passive form, such as cosmetics and sunscreens, and it is expected that in the coming decades, new phases of products, such as better batteries and improved electronics equipment, will be developed and have far-reaching implications.²⁻⁵

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In nanotechnology, a particle is defined as a small object that behaves as a whole unit with respect to its transport and properties. Particles are further classified according to diameter. Coarse particles cover a range between 2,500 and 10,000 nanometers. Fine particles are sized between 100 and 2,500 nanometers.¹

Nanoparticles may or may not exhibit size-related properties that differ significantly from those observed in fice particles or bulk materials. Although the size of most molecules would fit into the above outline, individual molecules are usually not referred to as nanoparticles. Nanoparticle research is currently an area of intense scientific interest due to a wide variety of potential applications in biomedical, optical and electronic fields. Nanotechnology involves manipulating properties and structures at the nanoscale, often involving dimensions that are just tiny fractions of the width of a human hair. Nanotechnology is already being used in products in its passive form, such as cosmetics and sunscreens, and it is expected that in the coming decades, new phases of products, such as better batteries and improved electronics equipment, will be developed and have far-reaching implications.³⁻⁵

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Abstract

A simple, clean and environmentally benign route for multi-component synthesis of 2-amino-4*H*chromenes between aromatic aldehydes, malononitrile and α/β-naphthols was described using ZnC nanoparticles as a catalyst in water: ethanol (1:1) as a green solvent system at 80 °C. The ZnO catalyst was prepared in aqueous leaf extract of *Calotropis gigantea*plant and found to be green, inexpensive, non-toxic, and highly efficient solid heterogeneous base catalyst obtained by simple methods. The use of plant extracts avoids the usage of harmful and toxic reducing and stabilizing agents.

Key words

 2-amino-4H-chromenes Calotropis gigantea, ZnO nanoparticle, heterogeneous base catalyst, green protocole.

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An Eco-friendly Catalytic System for One-pot Multicomponent Synthesis of Diverse and Densely Functionalized Pyranopyrazole and Benzochromene Derivatives

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An external base-free, efficient, cost-effective, and environmentally benign protocol has been developed for the one-pot multicomponent synthesis of highly functionalized pyranopyrazoles and benzochromenes using water extract of Againse americana (century plant) leaf ash, a waste-derived catalyst, at mem temperature. Mild reaction conditions, high yield, easy isolation of products, eco-friendly standards, and no chromutographic separation are the salient features of this protocol.

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INTRODUCTION

Pyrano[2,3-c]pyrazoles exhibit significant hiological activities such as anticancer [1], anti-inflammatory [2], and analgesic [3] and also serve as potential inhibitors of the human chk1 kinase [4]. They also find applications as pharmaceutical ingredients and biodegradable agrochemicals [5-8]. The benzochromene heterocyclic compounds also show significant biological and pharmacological activities such as antimicrobial [9]. antiviral [10], anti-inflammatory [11], antioxidant [12], antitubercular [13], antitumor [14], anticonvulsant agents [15], and central nervous system activity [16]. Figure 1 represents a glimpse of some bioactive pyrano[2,3-c] pyrazoles [3,4,17,18] and benzischromenes [19-22] exhibiting a diverse kind of pharmaceutical potentials.

The synthesis of this heterocyclic system involves four-component coupling of ethyl acetoacetate with hydrazine hydrate or phenylhydrazine, aldehydes, and malononitrile in the presence of homogeneous and heterogeneous catalysts such as L-proline [23], amberlist A21 [24], y-alumina [25], piperidine [26], triethylamine [27], cocamidopropyl betaine [28], hasic ionic liquids. [29], sodium benzoate [30], meglumine [31], silicasupported tetramethylguanidine [32], choline chlorideurea [33], cupreine [34], visible light irradiation [35], and supported molybdenum on graphene oxide/Fe₅O₄ [36]. Although these methods have their own merits, the implication of hazardous reagents and solvents, lengthy process, energy investment for heating purpose, and complications in the separation of products are the problems associated with these methods.

Owing to the numerous applications and bioactivity, the development of efficient, environmentally benign synthetic methodology for the preparation of these heterocyclic compounds using cost-effective, safe reagents, and solvents is highly desirable. Considering these aspects, herein, we wish to report a simple, efficient, eco-friendly process for the room temperature synthesis of pyranopyrazole and benzochromene derivatives using water extract of agave leaf ash, a waste-derived catalyst (Scheme 1). In our previously reported work, bael fmit rind ash extract was used as a catalyst for the synthesis of heterocycles in ethanol at room temperature [37]. We employed this catalytic system for the synthesis of pyranopyrazoles and benzochromenes in the absence of ethanol solvent; however, expected results were not obtained. Continuing our ongoing research with the aim to develop the novel catalytic system from the natural feedstock material, we turned our attention to agave leaf ash extract.

In this process, water extract of Agaive americana leaf ash acts as both the catalyst and the solvent. This catalytic system provides an alkaline medium (pH = 12.9) and promotes the reaction efficiently. An A americana L. (century plant, family: Agavacene) is native to Mexico and the United States and naturalized in the West Indies, India, Africa, China, Australia, and Thailand [38]. Nowadays, it is cultivated worldwide as an ornamental plant [39]. It has numerous medicinal applications [40]. The fibers of leaves are used for the production of the fabrics and paper [41,42]. Literature report showed that there is a higher concentration of K and Ca elements while a lower concentration of Mg, Na, Zn, and P elements

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019 An Eco-friendly Catalytic System for One-pot Multicomponent Synthesis of Diverse and Densely Functionalized Pyranopyrazole and Benzochromene Derivatives

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Mizoroki–Heck cross-coupling reactions using palladium immobilized on DABCO-functionalized silica

Sanjay Jadhav¹ - Seema Patil² - Arjun Kumbhar² - Santosh Kamble¹ - Rajashri Salunkhe¹

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Abstract

A heterogeneous palladium catalyst supported on silica modified by DABCO has been prepared by post-synthetic modification of silica gel. This beterogeneous catalytic system exhibits high activity and stability in the Mizoroki–Heck cross-coupling reaction of various aryl halides with olefins. The reaction proceeds efficiently under efficiently under mild mild reaction conditions and high yield, with the formation of *E*-isomers selectively. Moreover, we successfully established a gram-scale synthesis, and the catalyst was reused for up to ten catalytic cycles.

Introduction

An important part of modern chemistry is based on the use of precious platinum group metal (PGM) catalysts [1-9]. In particular, Pd, which is an active metal with high demand, has been most widely used for the fabrication of carbon-carbon and carbon-heteroatom bonds for the production of intermediates of biologically active compounds, natural products and fine chemicals [10-13]. The Pd-catalyzed coupling of olefins with aryl or vinyl halides [14] to form a C-C bond is known as the Mizoroki-Heck cross-coupling reaction and has been widely used for the synthesis of important compounds like flavoring agents, pharmaceuticals, agrochemicals and UV absorbents [15, 16].

Though the Mizoroki-Heck cross-coupling reaction has been most widely applied with homogeneous catalysts [17-20], it suffers from various disadvantages such as tedious workup procedures, lack of reusability and contamination of residual metals in the desired product. These disadvantages can be overcome by using heterogeneous catalysts, via immobilization of Pd on various solid supports such as polymers [21], activated carbons [22], metal oxides [23],

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biopolymers and zeolites [24]. Recently, it has been found that Pd complexes with various ligands supported on silica have considerable utility in various cross-coupling reactions including Mizoroki-Heck cross-coupling reaction [25, 26], as silica displays many advantageous properties such as excellent chemical and thermal stability, good accessibility and porosity. In addition, the organic groups can be easily grafted on the silica surface by simple post-synthetic modifications [27].

As amines are less toxic, inexpensive, easy to handle and less air sensitive, catalytic systems based on DABCO might be ideal to carry out the Mizoroki-Heck cross-coupling reaction under phosphine-free conditions [28-31]. DABCO is a cage-like, small diazabicyclic molecule with medium steric hindrance and has received considerable attention as an organocatalyst for various organic transformations [32-35]. In 2014, Li et al. [36] reported the first use of DABCO as a ligand in Pd-catalyzed phosphine-free cross-coupling reactions, while our research group reported [37] Pd-DABCO supported on SiO2 as an effective reasable catalyst system for Suzuki-Miyaura cross-coupling in aqueous ethanol using K2CO3 as a base at 80 °C. The results showed that the catalyst could be used to convert a variety of aryl bromides and boronic acids to the desired coupling products in good-toexcellent yields, which encouraged us to use this catalytic system for Mizoroki-Heck cross-coupling reactions. As a matter of fact, we succeeded in obtaining a very rapid and quantitative conversion of various aryl bromides with different olefins into a variety of coupling products in DMF using K2CO3 as a base at 100 °C temperature and with high selectivity.

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RESEARCH ARTICLES

Green protocol for the synthesis of 1,8-dioxo-decahydroacridines by Hantzsch condensation using citric acid as organocatalyst

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Herein we describe a clean and sustainable, one-pot, multi-component protocol for the synthesis of 1,8dioxo-decahydroacridines by Hantzsch condensation of cyclic 1,3-dicarbonyl compound and NH₄OAc with diverse aryl aldebydes using citric acid as an inexpensive green additive in ecological safe solvent. Utilization of cheaper and safer catalyst, cleaner reaction profile, straightforward work-up procedure and good to excellent yields of the desired product are the noteworthy aspects of this method.

Keywords: Acridines, citric acid, organocatalysts, green protocol, multi-component reactions.

OUR environment needs to be protected from the growing amounts of waste and toxic by-products that sequentially lead to chemical pollution. Therefore, synthetic chemists are interested to develop relatively safer technologies which play a vital role in green chemistry. Establishing newer chemical transformations should satisfy the green principles such as non-toxic, non-flammability, ecofriendly medium, and separation as well as recycling of the catalysts. Since the last decade, efforts have been made towards the design and synthesis of an environment-friendly method with respect to reagents, catalysts and solvents that could be easily biodegradable12. Multicomponent reaction (MCR) strategies have been widely used in the convergent synthesis of complex organic entities. The MCRs uses simple and easily available starting materials and provide high atom economy and selectivity. It is one of the important synthetic tools available to achieve both economic and environment-friendly goals. Therefore, the synthesis of heterocyclic compounds using significant bioactivities with MCR support is an important pursuit in organic synthesis.

Synthesis of acridines is a growing area of interest due to polyfunctionalized groups with a wide range of biolo-

gical activities3. Among them, 1,8-dioxo-decahydroactidines is an important class of aza-heterocycles in which a phenyl-substituted pyridine ring is fused with two cyclohexanone rings. These structures contain 1,4dihydropyridine (1,4-DHP) as a parent core, which acts as fluorescent probes in bioanalytical chemistry⁴ and also used as potential drug candidates for the treatment of cardiovascular diseases. Some of these compounds are used in dye-sensitized solar cells and in the preparation of blue light-emitting devices^{3,4}. In addition, 1,8-dioxodecahydroacridines have been widely employed as DNA intercalators, SIRT1 inhibitors, and calcium and potassium channel modulators7.8, Several studies have revealed that these heterocycles exhibit numerous medicinal applications which include antitumour, calcium-channel blockers, antileukemic, antifungal, anticancer, anti-atherosclerotic and bronchodilator⁹⁻⁷³. They are also used as laser dyes, chemosensors and initiators in the photopolymerization process. These derivatives are highly important due to their structural similarities with coenzyme nicotinamide adenine dinucleotide (NADH), which plays an important role in biological systems.

The most common route for the synthesis of 1,8-dioxodecabydroacridines is the condensation of a diverse range of anyl aldehydes, dimedone or cyclic 1,3-dicarbonyl compounds with various nitrogen sources such as ammonium acetate, urea, ammonium hydroxide, ammonium bicarbonate and hydroxylamine18-18. A variety of catalysts such as sulphonated polyethylene glycol (PEG-OSO₃H), silzie (SiO2-ZnCl2), silica boron-sulphurie acid, proline, Zn(OAc)2, nano nickel cobalt ferrite (Nig+Cog+FerO4), carbon-based solid acid, Bronsted acidic imidazolium salts, ascorbic acid, acetic acid, tris(pentafluorophenyl) borane/B(C₄F₅)₅, silica-supported polyphosphoric acid, ammonium chloride, silica-supported Preyssler nanoparticles have been employed in this reaction19-12. However, most of these reported methods have certain drawbacks such as use of toxic and corrosive solvents, expensive reagents, tedious preparation of catalyst, prolonged reaction times, complicated work-up procedure, harsh reaction

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Close

Bael Fruit Ash Water Extract (BFAWE): A greener benchmark for the 1 synthesis of tetrahydrochromeno[4,3-B]chromene-6,8-diones and 2 benzylpyrazolylcoumarins з 4 Megha U. Patil,2 Sachin K. Shinde,2 Rajendra V. Shejwal,3 Suresh S. Patil3* 5 6 ¹Green Chemistry Research Laboratory, Department of Chemistry, SMDBS College, Miraj, 7 8 Sangli-416 410 (MS), India. ² Synthetic Research Laboratory, PG Department of Chemistry, PDVP College, Tasgaon, Sangli-9 10 416 312 (MS), India. ³ Department of Chemistry, LBS College, Satara - 415002 (MS), India. 11 1.2 43 Affiliated to Shivaji University, Kolhapur. 12 *Corresponding Author: Email: sanyujapatil@yahoo.com; Fax. (0233) 223 2181. 13 14 Abstract A simple and environmental-friendly synthetic protocol has been developed for the 15 synthesis of tetrahydrochromeno[4,3-b]chromene-6,8-dione derivatives by condensation of 4-16 hydroxycoumarin with aromatic aldehydes and dimedone in the presence of bael fruit ash water 17 extract (BFAWE) in aqueous medium. This green protocol was further extended for structurally 18 diverse benzylpyrazolylcoumarins by condensation of equimolar quantity of ethylaceto acetate, 19 hydrazine hydrates, 4-hydroxycoumarin and aromatic aldehydes in good to excellent yields. The 20

advantage of this method includes a mild, efficient and highly economical protocol under aerobic conditions at very short reaction time, under ligand/external catalyst/external promoter-free conditions. This protocol is better and more practical alternative to the existing protocols for green processes.

Keywords green protocol, natural catalyst, bael fruit, tetrahydrochromeno[4,3-b]chromene-6,8 diones, benzylpyrazolylcournarin, 4-hydroxycournarin.

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Bael Fruit Ash Water Extract (BFAWE): A greener benchmark for the
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X-RAY DIFFRACTION ANALYSIS OF NI-Cu-Zn NANO-FERRITE SYNTHESIZED BY WET CHEMICAL ROUTE

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AllSTRACT: Ni-Cu-Zn nano-ferrite with composition NixsCussZnszFezO+ was synthesized by wet chemical rout. The structural parameters such as lattice constant (a), crystallite size (D), bond lengths (A-O, B-O), ionic radii (rx, rz), X-ray density (pJ, hopping lengths (L4, La) were obtained from X-ray diffraction analysis. The presence of allowed planes in the X-ray diffraction pattern confirms the formation of single phase cubic spinel structure. It was found that the values of lattice constant and X-ray density of the ferrite are similar than that reported for ferrite prepared by citrate precursor method followed by microwave sintered technique. Crystallite size of the ferrite lies in nano-size range and which is much lower than that reported for ferrites prepared by ceramic as well as citrate precursor methods. Bond length (B-O) and ionic radii (ra) on octahedral site are higher than that of observed for tetrahedral site. Hopping length of ferrite on tetrahedral (A) site is higher than that of octahedral (B) site.

Keywords: nano-ferrite: wet chemical route; Ni-Cu-Zn ferrite; X-ray diffraction

1. Introduction

Recently researchers in different fields are engaged in the development of nano-materials in the form of nano-ferrites. A nano-ferrite material has excellent and improved properties as compared to that of reported for bulk materials. These materials are technologically important and used in many applications such as including magnetic recording media and magnetic fluids for the storage and or retrieval of information, magnetic resonance imaging (MRI) enhancement, magnetically guided drug delivery, catalysis, sensors and pigments [1-3]. Recently instead of Ni-Zn and Mg-Zn nano-ferrites, there is a growing interest various chemical methods such as an overlapplications.

Various chemical methods such as reverse micelle method, auto-combustion method, oxalate based precursor method, microwave sintering method, sol-gel method etc were used to prepare Ni-Cu-Zn nano ferrites. Ghasemi et al. [4] prepared copper substituted Ni-Zn nano-crystalline ferrites by reverse micelle process. They reported that the saturation magnetization of Ni-Zn ferrites decreases with increasing copper content. Ni-Cu-Zn nano-ferrites prepared by auto-combustion method utilized for the fabrication of multilayer chip inductor [5]. Raghavender et al. [6] studied structural and dielectric properties of Ni-Cu-Zn ferrites are lower than that of reported by other synthesis methods. The structural, magnetic and electrical properties of Ni-Cu-Zn ferrites followed by microwave sintering technique have been reported by Reddy et al. [7]. They revealed that ferrite material obtained by microwave technique has improved electro-magnetic properties. They also suggested that these ferrite materials are suitable for the fabrication of multilayer chip inductors used in the electronic devices.

In present communication, we discuss structural parameters of Ni-Cu-Zn ferrite prepared by wet chemical method.

2. Experimental

2.1 Synthesis of Ni-Cu-Zn ferrite.

Ni-Cu-Zn nano-ferrite with composition Ni_{0.7}Cu_{0.3}Zn_{0.2}Fe₂O₄ was prepared by wet chemical method using sulphates as the starting materials. AR grade ammonium oxalate was used as a precipitating reagent. The required sulphates were weighed in desired proportion with the help of higher accuracy digital microbalance and poured in the double distilled water. The dropwise conc. sulphuric acid was added in the solution of mixture with continuous stirring. The magnetic stirrer was used for stirring. Ammonium oxalate solution was added in the solution until precipitation process was completed. The precipitated solution was filtered and washed several times. The precipitate was dried and pre-sintered at 400°C for 2 hours. The pre-

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Special Issue

PERMEABILITY AND MICROWAVE ABSORPTION PROPERTIES OF DYSPROSIUM SUBSTITUTED MAGNESIUM FERRITE

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Abstract: MgDyomFe1stO4 ferrite material prepared by chemical combustion method. Frequency and thermal variation of complex permeability and loss tangent of the prepared ferrite materials was studied by using a Hioki LCR-Q meter. The real part of initial permeability increases where as imaginary part of initial permeability and loss factor of the ferrites material decreases with increasing frequency. Also the permeability of the resulting ferrites increases while loss factor decreases with increasing sintering temperature. The microwave absorption properties of dysprosium substituted magnesium ferrite have been carried out by using Field Fox vector network analyzer in frequency range 2MHz to 6GHz. The prepared ferrite material shows reflection loss of -17.15dB and voltage standing wave ratio (VSWR) is 1.37 at 4.08 GHz.

Keywords: Dy-Mg ferrite, Combustion, Permeability

1. Introduction

Magnesium ferrite is soft magnetic semiconducting materials have number of applications in magnetic technology, adsorption sensors and catalysis [1]. The performance of magnesium ferrites at higher frequencies is good due to its high resistivity, low magnetic and electric losses [2, 3]. Effect of rare earth ion doping into spinel structure produces structural distortions which induces strains and hence modifies its magnetic as well as electrical properties [4-7]. Recently researchers have synthesized nano-sized ferrite material due to its important structural, electrical and magnetic properties for different applications in sensors, magnetic storage, electronic and microwave devices.

V. Naidu etal [8, 9] have been reported physical properties of metal ion substitutions such as Sm-Gd, Ce-Gd on magnesium ferrite. The structural and magnetic properties of dysprosium substituted magnesium ferrite were reported by Bamzaj etal [10]. They have studied magnetic hysteresis loop and explain the ferromagnetic nature of dysprosium doped magnesium ferrite, Rezlescu etal [11] have studied the effect of rare earth ions on magnetic and electrical properties of nickel zinc ferrite. They have showed that the substitutions of iron ions by rare earth ions provide clearly improved temperature characteristics of the initial permeability. A. Loganathan etal [12] prepared pure and Sr-substituted MgFe2O4 by co-precipitation method and showed that structural, optical and magnetic properties of prepared ferrite strongly dependent on calcination temperature. Juhua Luo etal [13] studied magnetic and microwave absorption properties of rare earth ions doped strontium ferrite. They have shown that Er doped strontium ferrite got better microwave absorption performance at frequency 13.8GHz. Alagarsamy etal [14] synthesized Mg doped ferrite with Samarium, Dysprosium through sol-gel method. They have showed that prepared ferrite material used for microstrip patch antenna had an acceptable microwave performance with VSWR 52, return loss of 9.799 dB at frequency 3.5 GHz. The main objective of present work to study frequency and thermal variation of permeability as well as microwave absorption performance of dysprosium substituted magnesium ferrite material.

2. Experimental

The composition MgDyomFer 97O4 was synthesized by chemical auto combustion route, in which metal nitrates are used as an oxidizing agent and fuel glycine as a reducing agent [15]. The as-burnt powder was mixed with small amount of polyvinyl alcohol and uniaxially pressed at 6 tones/inch to form torroid shaped sample with inner diameter 1cm, outer diameter 2cm and thickness 15mm. The samples were sintered at 950°C and 1050°C for 1hour respectively. Powders acquired after combustion and sintering were characterized by X-ray powder diffraction using an X-ray diffractometer. The microstructural aspects were studied with a scanning electron microscope. The initial permeability and complex permeability with temperature and frequency variation were calculated by using Ls and Q factor values obtained from Hioki

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ORIGINAL RESEARCH



Effect of La³⁺ substitution on structural and magnetic parameters of Ni–Cu–Żn nano-ferrites

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Abstract

The ferrite material with compositions $Ni_{0.7}Cu_{0.1}Zn_{0.2}La_{2}Fe_{2-4}O_{4}$ (where x=0, 0.015, 0.025, and 0.035) was synthesized by oxalate co-precipitation method. The ferrite samples were characterized by thermo-gravimetric and differential temperature analysis (TG-DTA), energy-dispersive X-ray analysis (EDAX), X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FTR), field-emission scanning electron microscopy (FE-SEM), and vibrating sample magnetometer (VSM) techniques. The EDAX analysis confirmed the formation of required stoichiometric ferrite samples. The formation of cubic spinel structure with the presence of weak ortho-ferrite phases was confirmed from X-ray diffraction analysis. The lattice constant of all the ferrites was found to be increase with increase in La¹⁺ content. The presence of main two recognized strong absorption bands in the frequency range 400–600 cm⁻¹ in the FTIR spectra shows the formation of well spinel ferrite. Morphological study shows that grain size of the ferrites lies in the range 16.23–24.21 nm. It is observed that the saturation magnetization and magnetic moment of Ni-Cu-Zn ferrites decrease with La³⁺ content.

Keywords Ni-Cu-Zn nano-ferrite - XRD - FTIR - FE-SEM - VSM

Introduction

Soft-ferrite materials are mostly useful material because of its technological and industrial applications. These applications are depending on their properties such as high

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resistivity, moderate permeability, low dielectric loss, low permittivity, etc. These properties play an important role in the fabrication of components such as a transformer core, antenna rods, multi-layer chip inductor, micro-inductors, electromagnetic filters, etc. [1-4]

Recently, researchers synthesized ferrites in the form of nanoscale range because of its growing applications such as production of bio-diesel [5], nano-catalyst [6], humidity sensor [7], gas sensor [8], super-capacitor [9], electrode material for Li-ion battery [10], etc. Various methods such as sol-gel auto-combustion, co-precipitation, citrate precursor, wet chemical route, hydrothermal [11–15], etc. were used for the preparation of nano-ferrite materials.

In the last decade, researchers investigated various properties of Ni–Zn ferrites due to their interesting proporties such as high resistivity, high permeability, and low eddy current losses. Recently, Ni–Zn ferrite material was used in high-frequency applications such as multi-layer chip inductors and electromagnetic interference filters. Dus and Singh [16] investigated the structural, magnetic, and dielectric properties of Cu-substituted Ni–Zn ferrites. They reported that the coercivity and saturation magnetization of Ni–Zn ferrites improved by substituting Cu content. Avail et al. [17] illustrated that the poor



FULL PAPER



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Thermal and Frequency Variation of Permeability for Samarium–Dysprosium–Magnesium Ferrite

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Samarium-dysprosium-magnesium ferrite materials have been prepared by chemical combustion method. The effect of samarium-dysprosium rare earth ions on loss factor, real and imaginary part of permeability has been studied for Mg[(Sm]_{0.4}(Dy)_{0.4}]₄Fe_{3-x}O₄ (x = 0.01 and x = 0.03) ferrite materials with temperature and frequency by using a Hioki LCR-Q meter. From thermal variation of loss factor of prepared ferrite materials, it is revealed that ferrite must be used below Curie temperature for low loss factor. The real part of initial permeability initially increases with frequency and for higher frequency its value almost remains constant. The loss factor and an imaginary part of permeability of the ferrite materials decreases with increasing frequency.

1. Introduction

Magnesium ion plays an important role in the densification and grain growth during the formation of ferrite material.¹¹ With rare earth ion substitution electrical as well as magnetic properties of ferrites are influenced.^[3] Due to larger ionic radii, rare earth lone have limited solubility and hence there will be limitations on their concentration of substitition/doping into the spinel of the ferrite.)11 Several resarchers(1+7) observed secondary phase formation in addition to cubic spinel structure of rare earth substituted ferrites. They reported that secondary phase formation in the spinel structure is may be due to Re-Fe interaction. It is found that, for smaller percentage of rare earth, secondary phase does not exist. But substitutions of large amount of rare earth ions into the spinel structure form the orthoferrite phase, producing structural distinction and thereby induce strain, which modifies structural, magnetic, and electrical properties.^[4] Reddy et al.^[6] studied XRD pattern of composite materials and confirmed the biphanic nature of materials. Sattar et al.¹⁰⁴ synthesized rare earth ions (5m, Dy, La, Nd, Gd) doped Cu-Zn ferrites by ceramic technique and found that magnetization and permeability of Sm and La doped ferrites become higher, whereas Dy and Gd doped

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2. Experimental Section

2.1. Materials

Magnesium, ferrous, samarium, and dysprosium nitrates were used as usidizing agents and fuel glycine as a reducing agent.

2.2. Synthesis

Ferrite with composition $Mg[(Sm]_{0.6}[Dy]_{0.6}]_{0.7}Fe_{3-4}O_{4}$ for x = 0.01 and 0.03 were synthesized by chemical combustion route. The magnetium nitrate $(Mg[NO_{4}]_{4})$ ferrous nitrate $(Fe[NO_{4}]_{4})$ samarium nitrate $(Sm[NO_{4}]_{4})$, and dyaproxium nitrate $(Dy[NO_{4}]_{4})$ were weighed in required proportion and dissolved in double distilled water. The soultion was heated until ignition process of the material is completed.²³ The resulting poweler was decomposed in air at 600 °C and finally sintered at 1000 °C for 1 h. The tormidal shaped samples were prepared by using dye with the help of hydrolic press. Tormidal samples were sintered at 1000 °C for 1 h.

2.3. Characterization and Magnetic Properties

X-Ray diffractometer was used to characterize the ferrites. The thermal and frequency variation permeability and loss factor parameters of magnetic properties were obtained by measuring La and Q-factor values by using LCR-Q meter (42 Hz to 5 MHz).

3. Results and Discussion

The typical X-ray diffraction pattern of the Mg[(Sm)no (Dy)nalion Fe1anO, system is shown in Figure 1. The presence

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ferrites become lower. They observed higher permeability and lower magnetination for Nd doped Cu-Zn ferrites as compared to undoped ferrites. Loganzthan et al.⁽¹⁴⁾ showed that structural, optical, and magnetic properties of Sr-substituted magnetium ferrites strongly depend on calcination temperature. Effect of thermal processing on the tribological of nanocrystalline Ni/TiO₄ coatings have been reported Cooke and Khan.⁽¹⁴⁾

The aim of present work is to investigate magnetic properties of rare earth substituted Mg ferrites in the form of permeability and loss factor with thermal and frequency variation.

CORRELATION ANALYSIS OF ATPADI RESERVOIR OF SANGLI DISTRICT, MAHARASHTRA

ALKA P. INAMDR

Department of Botany P.D.V.P. Mahavidyalaya, Tasgaon, 416 312 Dist: Sangli (MS)

ABSTRACT

This paper describes the physico- chemical profile and correlation matrix of Atpadi perennial reservoir of Sangli in Maharashtra where limnological studies were conducted from August 2016 to July 2018. The physico-chemical parameters varied seasonally. The Secchi disc values varied from 11.4 to 66.9 cm. The pH remained alkaline between 7.9 to 8.8 in both years. The dissolved oxygen varied from 4.2 to 8.2 mg/l during both years. The total alkalinity values ranged between 114.6 and 247.6 mg/l. The total hardness values varied from 111.3 to 365.6 mg/l for both reservoirs. Calcium content was fluctuated from 41.6 to 65.0 mg/l. The magnesium values are ranged between 29.6 to 36.5 mg/l. The values of total dissolved solids were observed from 210.3 to 521? Chlorides and total dissolved solids were maximum during summer and minimum in winter season. The reservoir may be placed under the category of oligotrophic in winter season. In correlation matrix free carbon di-oxide is negatively correlated with all parameters.

Key words: Physico-chemical parameters, Correlation coefficient, Perennial reservoirs.

INTRODUCTION

India has vast fresh water resources in the form of both lentic and lotic ecosystems. The lentic ecosystems include ponds, lakes, tanks and reservoirs. The perennial reservoirs play an important role as a valuable water resource for domestic, agriculture and aquaculture. The lentic ecosystems have long attracted attention of ecologists, both for their importance as a source of drinking water and the development of fisheries.

Several limnological studies have been carried out in this region, notable among these are of Kamat (1965), Goel et al (1988) and Bhosale et al (1994). Most of the studies were carried out in water bodies of urban area. Few of studies from rural area are reported by Hujare (2008) and Jadhav et al (2009).

The study has been designed to understand the hydrobiological features of reservoir, to assess water quality which will state the potability, suitability for fish culture and irrigation purpose.

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Water Quality Status Of Fresh Water Of Bhakuchi Wadi From Sangli District Of Maharashtra (India)

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Department of Botany P.D.V.P. Mahavidyalaya, Tasgnon, Dist: Sangli (MS)

Abstract:

The study represents on influence of environmental parameters on water quality at Bhokuchi wadi reservoir in Khanapur tahail of Sangli district on the basis of water quality (WQD, WQI was determined on the basis of various parameters like pH, dissolved axygen, total alkalinity, total hardness, calcium, magnesium, chlorides, total dissolved solids (TDS) and biological coygen demand (BOD) for which no earlier reports are available on this water body.

During this investigation, it was observed that some parameters are within the range prescribed by WHO, ICMR, BIS etc. But some parameters are beyond the permissible limit. Key Words: Bhakuchi wadi reservair, WQL Sanell district. Maharashtra.

Introduction:

resh water has become a scarce commodity due

to over exploitation and pollution of water. Increasing population and its necessities has lead to the deterioration of surface and subsurface water.

Water is the prime natural resource, a basic human need and a precious national asset. The quality of water is of vital concern for mankind since it is directly linked with human welfare. Water is utilized for domestic purpose, for industrial applications, agriculture purpose, as well as for inland fishery.

Water and life are two sides of the same coin. Life initiates and grows in the lap of water. Water is very vital to all forms of lives from very small organisms to very complex systems of plants, animals and human being. The purity of water varies from place to place in nature.

Water Quality Index (WQI) is one of the most effective tools to communicate information on the quality of water to concerned citizens and policy makers (WHO 1993, APHA 1992, ICMR 1975).

The WQI evaluates the values to each water quality parameter relative to its objective value. WQI is based on some important parameters that can provide a simple indicator of water quality. It gives the public a general idea of the possible problems with water in a particular region. Nine parameters were taken for WQI calculations namely, pH, dissolved oxygen, total alkalinity, total hardness,

calcium, magnesium, chlorides, total dissolved solids and biological oxygen demand. The water quality index is unit less single dimensional number between 0 and 100.

Material And Methods: Study Area:

The Bhakuchi wadi is small village located at northern part of Khanapur tahsil and northern part of district 70 km away from district place. The village is known for its minor reservoir. In 1988-91 Irrigation Department has constructed earthen dam riveted with stones. The water is used for irrigation also for washing, batting and fishing activities. The reservoir is much influenced by human activities and weeds.

10-1 The total catchment area is 261.24 sq. miles, the total capacity of storage is 680.33 Mcft and dead storage is 59.96 McfL Length of dam including slipway is 150 meter having clear overflow type of slipway. The height of dam is 19.70 meter and is of eathern type. The submergence area is 108.80 hectare. The bottom of reservoir is rocky. Hence reservoir shows very less macrophytes.

During rainy season i.e. from mid June, July, August and September the farmers allow their buffallows grazing on lush green grasses in catchment area. Very less macrophyte occur in the reservoir.

The reservoir stores tain water received from adjoining catchment area and is much influenced by anthropogenic activities.

The sampling sites were selected by considering the inflow, outflow and anthropogenic

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Awareness of Health in College Girls

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Abstract:

Health is an asset to human being, his community and has come to be regarded as prerequisite to socio economic development. The health of Indian women is intrinsically linked to their status in society. There is a strong male child preference in India, as sons are expected to care for parents as they age. The son preference, high dowry costs for daughter, low level of education, under the control of first their father, then husband, and finally sons. All these exert the negative impact on health status of Indian women. Women in poor health affect household, economic wellbeing, less productive in labour force and gynaecological problems.

The study was conducted from June 2016 to June 2017 in our college (B.Sc. girl's students) to analyze the haemoglobin count and associated their health problems. The data was collected from 100 girls with the help of questionnaires for same. The identify problems are weakness, anaemic condition, low Hb count, menses problem, vertigo and gynaecological problems.

Key Words: Hb Count, Health problems.

Introduction

Health is an asset to human being. The health care in rural areas is low as compared to urban areas. Under these circumstances, it is considered worthwhile to take a stock of health status of rural girls in the age of 16 to 22 years. The haemoglobin concentration of the blood is widely used as a tool in assessment of health. In these respect children from 6 years and women provides much attention. The state of knowledge concerning haemoglobin level in this age group is still unsatisfactory because majority of girls are suffered from number of deficiency systems and anaemia. Undoubtfully, this may shows adverse effect on growth of body and create future problems. They ignore the nutrition necessities of the girls even when they are married, pregnant and need most. The household responsibilities of female and lack of nutritious food causes no, of health hazards to rise among them.

The iron needs are highest in growing girls because of increased requirements for expansion of blood volume associated with growth spurts and onset of menstruation. (Beard JL, 2000). Thus growth spurts, menarche, poor diet, no added iron supplementation puts them into the high risk category of iron deficiency anaemia. These girls after marriage subjected to added demands for iron during pregnancy hence they need to have better status of haemoglobin. Regulation of iron balance occurs mainly in the gastrointestinal tract through absorption. Iron in diet is present in heme and non heme forms. These two forms are absorbed differently. Heme form is present in meat, chicken and is absorbed two to three times faster than the non heme form which is found in plant based foods and iron fortified foods. (Mangels R, 2000) Enhancers of iron absorption are heme iron and vitamin C; inhibitors of iron absorption include polyphenols, tannin and calcium. (Siengenberg D et al, 1991) © 2019 LIRAR June 2019, Volume 6, Issue 2

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EFFECT OF BIOFERTILIZERS ON PHENOLOGY OF MAIZE (ZEA MAYS L.) VARLETY - GANAR

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ABSTRACT

An attempt has been made to study the effect of *Azotobacter* and *phosphate solubilizing bacteria* (*PSB*) on Phenology of Maize (*Zea mays* L). variety –Ganga at farmland of Dhavali Dist.Sangli, Maharashtra. The experiment was carried out in a randomized complete block design with three replications. The phenological parameters like plant height, number of leaves per plant, length of leaves, stem and cob diameter and length of cob are measured. It is revealed from the experiment that, there is considerable enhancement in Phenological parameters. The value of 'treatment means' were compaired using least significance difference (p<0.05). It is evident from the results biofertilizer treatment producing high yeild in maize variety Ganga.

KEYWORDS - Maize (Zea mays L.) variety -Ganga, Phenology, etc.

INTRODUCTION -

Maize (Zea mays L.) is a most important cereal crop after wheat and rice. Every part of the maize plant has economic value which the grain, leaves, stalk, tassel and cob can all be used to produce large variety of food and non food production (IITA, 2006). Apart from this, com is an important industrial raw material and provides large opportunity (Paroda, 2000). Maize is a C₄ mode of carbon fixation plant efficiently utilizes inputs because of its rapid growth and high biomass (Miller *et al.*2010). Beyranvand *et al.*2013 suggested that effect of nitrogen and phosphate biofertilizers were evaluated positively, there were an increase in plant height, ear weight, ear length and grain yield. The productivity of maize is dependent on its nutrient requirement and management particularly that of nitrogen, phosphorus and potassium (Arunkumar, 2007). The extensive research programme over the years on beneficial bacteria and fungi has resulted in the development of a wide range biofertilizer which not only fulfill the nutrient requirement of various crop species but increase the crop yield and nutrient composition. *Azotobacter* species besides playing a role in nitrogen fixation, it has the capacity to synthesize and secrete considerable amounts of biological active substances like vitamins, gibberellins and auxins (Suhag, 2016)

Maize seeds used for human food and animal fodder. Selected and applied methods of biofertilizer increasing integration in production and also coexist environment free from pollution.

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Effect of Biofertilizers on Chlorophyll contents of Maize (Zea mays L.) Variety Eco-92

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Alzitract: An attempt has been made to study the effect of different biofertilizers such as Azotohacter and *Phosphate solubilizing bacteria*, (*PSB*) on chlorophyll content on maize (Zeu mays L.) variety Ecu-92. The experiments were carried out in a randomized complete block design with three replications. The biofertilizers used were Azotobacter (A), phosphate solubilizing bacteria (P) and combine treatment Azotobacter + phosphate solubilizing bacteria (A +P), without treatment was control. The comparative extraction of chlorophylls (Chlorophyll a, chlorophyll b and total chlorophyll) And carotenoids from Eco-92 by 80% acctone as extraction method (Arnon, 1949) was studied. The study relates to the amount of concentration of chlorophyll and carotennids between the control and treated of maize crop. Investigation revealed that method of Arnon (1949) [1], is simpler method for extracting the pigment molecules along with other methods used for extraction and results showed higher content of chlorophyll-a, Chlorophyll-b, total chlorophyll and Carotenoids in the treated plants in comparison with the control plants. By the application of biofertilizers treatment levels were corresponding to (TA₁), (TP₁),(TA+P₁) respectively to the treated fodders, little amount of differences were observed in the concentrations of pigments between treated and control plants selected for present study.

Keywords: Chlorophyll, carotenoids Azotohacter, PSB, Eco -92 etc.

1. INTRODUCTION

Maine is an important staple food crop, occupies a prominent place among cereals and first rank in terms of productivity and third in total area and production after wheat and rice, while in India it strands fourth ranks next to rice, wheat and Jownr in terms of area and production. Total pigment molecules present in the leaf, are chlorophyll-a, chlorophyll-b and total chlorophyll, carotennids which are essential for photosynthesis[10]_[11]reported that the chlorophyll coloration is related to the amount of natrients absorbed by the plant from soil, This crucial Pigment also plays role as an index of plant growth and production of organic matter. Biofertilizers contain micro-organism that increases or promotes the important nutrients crucial for overall production the soil [9]. Biofertilizers applied to the soil supply of plant natrients for crop growth and serve as important instruments in yield development and physiological processes. Moreover, they play impostant mices in photosphyll is which are the main photosynthetic pigments. Chlorophylls and environnids are essential pigments of higher plant maintance is and responsible for variations of color from dark-green to gellow. Corocensoids provide bright enturing tight correlation between them [11]. Positive correlation of miningen and enturing in chlorophyll, therefore is smally a high correlation between them [11]. Positive correlation of miningen and enturing is previously reported by some functoring [7]. The distribution of chlorophyll is the key indicator of enturingen and enturingent is previously reported by some functoring [7]. The distribution of chlorophyll is the key indicator of enturingen and enturingent is previously reported by some functoring [7]. The distribution of chlorophyll is the key indicator of enturingent and enturingent and enturingent by some functoring [7]. The distribution of chlorophyll is the key indicator of enturingent and enturingent is previously reported by some functoring [7]. The distribution of chlorophyll is the function

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RESEARCH ARTICLE

EFFECT OF BIOFERTILIZERS ON YIELD AND YIELD COMPONENTS OF MAIZE (ZEA MAYS L)VARIETIES ECO-92 AND AFRICAN TALL

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ABSTRACT

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Key Wiends:

Azintobazure, PSB, Ecu-82, African tolL Maint yield etc.

*Corresponding author: Shinte Madhamati Y., Pheapkate Solubilizing Bacteria (PSB) on yield and yield components of Maize (Zea mass L.) variaties viz.Eco-92 and African tall. The experiments were carried out in a randomiaed complete block design with three replications. The yield parameters like weight of cob, diameter of cob, length of cob, number of rows per cob, weight of grains, number of grains per cob, weight all 100 grains, grain yield Kg/ha. Result showed that, make yield and yield components were significantly different at (pS0.05) higher in application of biofertilizers treatments. However, treatment with combined application of Azotebacter+PEB biofertilizers (A+P) biofertilizers had the highest weight of cob and grain yield Kg/ha is compared to control. Overall, Accessioner and PSB biofertilizers improved the quality and quantity of yield.

An attempt has been made of study the effect of different biofertilizers such as dependencer and

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Citation: Shinke Madhamati Y., Khade S.K., Paul V.A., 2019. "Effort of biofertiliters on yield and yield components of major (/or mover /) varieties eco-92 and African tall", international Journal of Convert Research, 11, 1073, 5149-5133.

INTRODUCTION

Maize (Zea mays L.) being an important staple food crop after Rice and Wheat throughout the world (FAO, 2002), Maize originated from Mexico. Every part of the maize plant has economic value and cob can all be used to produce a large variety of food and non-food production (IITA 2006). Apart from the soil the fertility and productivity issues, use of chemical fertilizers are also becoming more and more difficult for the farmers due to their high costs. Large amount of chemical fertilizers and posticides are being used for its higher yield production, but the problem is, they influence human and environmental health. To get rid off from the problems, we required to alter ways of increasing yield production by -olying biofertilizers (Shevananda, 2008).Nitrogen and sphorus are essential nutrients for plant growth and velopment in Maize N₂-fixing and P-solubilizing bacteria are important for plant nutrition by increasing N and P uptake by the plants and playing a significant role as that like biofertilizer, so Azotobucter and Phosphate solubilizing incremia are used in this study.

Though nitrogen and phosphorous are essential nutrient for plant growth and development in corn, biofertilizers are able to fix atmospheric nitrogen in the available form of plasts (Chen, J.2006). For highest grain yield in agriculture in addition to both, the nitrogen and phosphate fertilizer are very important (Shahun 2013 a.b.). Biofertilizers include mainly the nitrogen fixing, phosphate solubilizing and growth promoting microorganisms (Goel et al., 1999). Among biofertilizers benefitting the crop production are Azonibucter, Azonpirillium, Blue green algae, Azolla (Hegade et al., 1999) Application of biofertilizer provides effective implementation of biological mechanisms of plant nutrition, growth promotion and protection (Bashan and Levanony, 1990, Doeberging, 1995).In Maize the present positive effect of biofertilizers on growth, yield and yield component was revealed because of the increasing demand for food and livestock feed. The similar results are consurved in case of barley (Azimi et al.2013). Azotobacter species besides playing a role in narogen likation it has the capacity to synthesize and secrete considerable amounts of biological active substances like vitamins, gibberelling and auxins (Subag, 2016).

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Allelopathic Influence of Celosia argentea L. on Photosynthetic Pigments of Wheat (Triticum aestivum L.)

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ABSTRACT

Celosia argentia L. is dominant alien weed reported from crop field of Islampur in Walwa taluka of Sangli district of Maharashtra, India. It has been scrutinized for its allelopathic potentiality of C. argentea against photosynthetic pigments such as chlorophyll- a, b and carotenoids in wheat. The laboratory pot assay experiments were conducted to assess photosynthetic pigments. The healthy seeds of wheat were soaked in different concentrations of leachates of C. argentea L separately. The concentrations of leachate were, 5, 20, 40, 60, and 80%. The seed were sown in earthen pots containing the mixture of garden soil and manure (3:1). The seeds supplied with distilled water were used as control. The aqueous leachates of C. argentea L. were applied with respective concentrations regularly up to 25th day of growth to both plants. Analysis photosynthetic pigments were carried out on the 25th day of growth. The amounts of chlorophyll a and b were enhanced after leaf leachate treatments in wheat while inhibited after inflorescence and root leachates of C. argentea. It was recorded that the amounts of total chlorophyll and carotenoids were enhanced only after leaf leachate treatments in wheat but after 5 to 60% treatments. The photosynthetic pigments were increased after treatment of leachates of C. argentea showed significance in crop productivity. The present study indicated that the allelochemicals are present in weed, C. argentea. It needs further screening of allelochemicals and their characterization for detailed study.

KEY WORDS: Allelochemicals, Celosia argentea L., Photosynthetic pigment, Wheat (Triticum aestivum L.)

INTRODUCTION:

Weeds are unplanted, unwanted and redundant plant that hampers the growth of main crop through releasing chemical substances, called as allelochemicals (Batish *et al.*, 2007). They often affect growth and development of crop plants (Kadiolgue *et al.*, 2005). They released allelochmicals that affects on metabolic functions including mineral nutrition, photosynthesis, respiration, and many others (Saxena *et al.*, 2004) through allelopathic mechanism (Benyas *et al.*, 2010). Allelopathy is the complex phenomenon concerns with the effects of neighboring life on plants through breakdown products of their metabolites. Biochemical compounds were released from the neighboring plants / weed plants by the various biological and

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Plantar Scientia Volume 02, Barry 03, May 2018

REMEABLICH ABTICLE

Phytochemical Analysis of Selected Medicinal Plants of India

Narendra A. Kulkumi and Jayashree Mane

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Committee

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ABSTRACT

The present study has revealed the preserve of phytochemicals considered as acrow methcinal chemical constituents. Important medicinal phyrochemicals such as terpenouts, illavontatis, phenois, tansans, stanoide, glycosides were studied in the collected samples. Plant Argle surveilss Cort. hexing all three playtee humicade. Soperate was install only in two plants out of nine places 2.0. Adjymatics apers Lines, and Sometarput anatoridium Lines. Terpenside was found in Argh nurseles Cent, Celerope guoman Linn R.R., Atmoss pulses Linn, Terpensides are expented to have auti-inflatementary, anti-straf, arritecherial, inhibition of cholescend synthesis and annihactorial. Candlar glycrosiles context was found to Ackyrandes appear Lint., Agle manufas Core. Missing pulling Lines, Tribules increases Lines, Colorupus gypniss Linn R.Br. Roman common Linux. Cardiac glyconides have been und for over two comotes as stimulant to case of cardiar failure: The flavonoids was found in Adventeles opera Linn, Argie marnelin Corr, Caloropu gigenca Liter, Minute public Liter, Cross pulsaplaris Line.Mar., Indulus sevents Line. The biological functions of flavousids spart from its automation properties aschide protection against illergies, inflammation, free tailicals, plateke approprise, microbus, silvers, hepotenins, strates and Biltzers.

Reprovede Medicinal plants, Phytochemicals, Sucondary metabolines, Anti-tuffastmatory drug plants,

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Research Article

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BIOCHEMICAL CHANGES IN BENOMYL SENSITIVE AND RESITANT ISOLATES OF *FUSARIUM SOLANI* (MART.) SACC CAUSING ROOT ROT OF CHICKPEA (*CICER ARIETINUM* L.)

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ABSTRACT

chickpea (*Cicer arietinum* L.) is an important pulse crop grown for its vegetable, fodder and medicinal value. It was infected by *Fusarium solani* (Mart.) causing root rot disease to chickpea. Benomyl was used for management of the disease. The benomyl sensitive and resistant isolates show biochemical variation when assessed against untreated healthy ones. Biochemical constituents like Carbohydrates, starch, reducing sugar, DNA, RNA as well as Iron. Zinc, Copper, Manganese, and Magnesium contents were seen to be reduced due to infection of *Fusarium solani* in sensitive and resistant isolates as compared to healthy plant, while Calcium, total ash and polyphenol contents were increased in both of the isolates.

KEYWORDS: Root rot chickpea (Cicer arietinum L.), Fusarium solani (Mart.) Sacc sensitive and resistant, biochemical constituents.

INTRODUCTION

Pulses are an important part of the daily diet for most indians as they contain 2 to 3 times more protein than cereals. Chickpea (*Cicer arietinum* L.) is the most important pulse food crop among major rabi pulses of India and belongs to family Leguminosae. Chickpea is not only important human food but also used in traditional farming systems. According to (Chiranjeevi *et al.*, 2002) in the dry land it fixes atmospheric nitrogen in the soil and increases soil fertility. It has very great nutritional value. According to (Cook, 1967) after dehulling chickpea is valued for its nutritive seeds with protein content 25.3 to 28.9 percent.
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शिविम संशोधन पत्रिका

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संपादक

डॉ, शिवकुमार सोनाळकर

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प्रकाशक

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मदक

श्रीधर मुद्रणालय, कराड ३३८, सोमवार पेठ, कराड ४१५११० मोबा: ९८९०४९८४९७

मुल्ब : ३००/-

ही संशोधन पहिला प्रकाशक हो. शिवकुमार सोनाजवन वांनी शिवाजी विद्यापीठ माठडी शिक्षक संघ, कोल्हाकु पालाठी बीचर मुद्रगालब, कराड बेचे छापूर अनुराज, ७/ब, सूर्यवंशी कोलनी, सानेगुरुजी प्रसाहत, कोल्हापूर ४९५०११ संघे प्रभाषित केली. या पत्रिकेत प्रकट झालेल्या मतासी संपादक, प्रकाशक, सञ्चागार व मुद्रक सहमत अससीलप असे पाले.

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षु. ल. देशपांडे यांचे वाङ्मयीन व्यक्तिमत्त्व

भाषिते । स्वी बाइमयाच्या होत्रात लोकप्रियतेच्या शिखरावर पोहोचलेले, 'मलाव्य' अशी स्वी बाइमयाच्या होत्रात स्वणजे पु. ल. देशपांडे. 'मलाव्य' म्हणजे 'महाराष्ट्राच क्वी क्रिविणारे ड्यक्तिमल्व म्हणजे पु. ल. देशपांडे. 'मलाव्य' म्हणजे 'महाराष्ट्राच क्वी क्रिविणारे ड्यक्तिमल्व.' ही विरुदावली त्यांना महाराष्ट्र मूपण जनतेने दिली. शासन स्वरावरील क्वीकीमल्व.' ही विरुदावली त्यांना महाराष्ट्र मूपण जनतेने दिली. शासन स्वरावरील क्वीकीमल्व.' ही विरुदावली त्यांना महाराष्ट्र मूपण जनते ने दिली. शासन स्वरावरील क्वीकीमल्व.' ही विरुदावली त्यांना महाराष्ट्र मूपण जनते नायांकिल पुरस्कार त्यांना क्वीकीमल्व.' हो विरुदावली होखकाला इतकी लोकप्रियता आणि प्रेम दिले ल्याचे क्वीके पुलंसी किरागस नजरेने समाजाचे निरीक्षण करून विनोदी शैलीत व्यक्त

हो हे हाथ. ज़टावधानी असलेले पु.ल. हे साहित्याबरोबरच, संगीत, नाटक, चित्रपट असा बाद्य क्षेत्रा लीलया विहार करणारे, विदग्ध वाङ्मयीन व्यक्तिमन्त्र होते. त्यांच्या बाद्य क्षेत्रानी व्यक्तिमन्त्वातील विविध पैलूंचे दर्शन त्यांच्या साहित्यातून व त्यांच्याबद्दलच्या ब्लाबा लेखनातून घडते.

लवी वाइमयीन जडणघडण :

मुनवा जन्म मुंबईतील गावदेवी भागातील गोरेगावकर रस्त्यावरील कृपाळ हेमराज होत्र इतिवार दि.८ नोव्हेंबर १९१९ साली झाला. आई लक्ष्मांबाई ही वामन मंगेश त्यो इन्ने इखेदी यांची कन्या. ऋग्वेदींचे पूर्वज मूळचे गोव्याचे नंतर ते कारवारला के के करवाहन उपजीविकेसाठी मुंबईला आले. ते शिक्षक, समाजसुधारक आणि त्येकहो होते. त्यांना मराठी, हिंदी गुजराती, कन्नड, संस्कृत, बंगाली इत्यादों का के होत्य. टागोरांच्या 'गीतांजली'चा मराठी अनुवाद त्यांनी केला होता. पुलंना तात्वाचा वारसा ऋग्वेदींकडून मिळाला. वडील लक्ष्मणराव देशपांडे मूळचे कोल्हापूर ल्हातील चंदगड जवळील जंगमहट्टीचे वतनदार घराण्यातील होते. जंगमहट्टीच्या स्तरिणेगडाची वतनदारी या देशपांडेंकडे होती. लक्ष्मणराव मेट्रिकची परीक्षा पास कि वे बी. अडवानी या कागद कंपनीत सेल्समन म्हणून नोकरीस लागले. वडिलांना ज्यची मनापासून आवड होती, ते बालगंधवांच्या गायकीचे चाहते होते.

पूर्तन विनोदबुद्धीची देणगी मिळाली ती त्यांच्या 'बाय कडून, बाय हॉ पुलंच्या गोंब जाई (आजी) होय. या बायला नकला करायची भारी हौस होती. मंदिरात बिकोर्तनला जाऊन आल्यानंतर घरी कधेकरी बुवांची ती हुबेहूब नक्कल करी. बेलेप्वांची बरीच नाटके तिने पाहिल्यामुळे तिची अभिनयाची जाण वाढली होती.

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शिविम संशोधन पत्रिका । ९९

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1_lpeg 'RESEARCH JOURNEY' international E- Research Journal ISSN : Impact Factor - [5]H] - 6.261. (CIF) - 3.452(2015). (CIF)-0.676 (2013) 2348-7143 Issue 171 (C)- भटनमा विमुकाच्या समगरन्तीचे मना व माहित्यातील प्रतिबिध March -2019 UGC Approved Journal Impact Factor - 6.261 ISSN-2348-7143 INTERNATIONAL RESEARCH FELLOWS ASSOCIATION'S RESEARCH OURNEY International E-Research Journal PEER REFREED & INDEXED JOURNAL March -2019 Special Issue - 171 (C) भटनया विमुक्तांच्या अगसंस्कृतीचे कला व साहित्यातील प्रतिबिंब वतिथी संपादयः ढॉ.च्ही: एस. सायत था भार्च बी.पी.भोसले कॉलेज, कोरेगाव ता. कोरेबाब, जि. मावारा कार्यकारी संगादक हाँ, बी, एग, चल्ताण

प्रमुख, पदवी व परञ्जुत्तर मराठी विभाग वी.पी.घोसले कॉलेज, कोरेगाव टा. कोरेगाब, जि. सातारा

> सहयोगी संपादक थींगती एम. एम. देठे डॉ. व्ही. व्ही. नावडकर

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भटनया-विमुकाचे परिवर्तन बळयळ झाणि मेतृत्व

डी तातीवा बयामे

गाउँगाव भाषात्रापत्र, महादी विभाग महा नगम थी, प्रमानराज्यत्वा पार्टाल महाविदयालय, वालगांच, जि.लालसी मो.स. १८५-६७००७% Email Ide- onsidebil@jonall.com

प्रारताबिक

आरोपि समाज हा तजारी वर्षापासून काती-जवातीमध्ये शत्मादिन झागेला समाज कड. येथे जमयन वातीममूह अपायस्था वातीमाणा, संस्कृतीयह अधित्यात बाहेत. बहुधारविंग, बहुसारवृतित, बहुवालीव स्था ममुहा वरोब-च मापावाद प्रातत्वनमुद्धे नापिक अस्मिता व्यक्तारी बहुभापिकता असा मिश्र संस्कृतिक वारमा जयणास देश स्टबजे भारत देश होत. यहाराष्ट्रापुरले जोन्हापने तत्वाया महाराष्ट्रावहीं जनेकविधि जाती -जमानीभा मयुह आडवतात. भारतीय सविधानाले जाती- जमातीचे यह करना त्यांचे अनुमुचिह जाती, अनुमुचित जमाती, इतर भागाल वर्ग जाती जमें पत्रते तवार केले. महाराष्ट्रांत इतर मामाम जाती प्रवर्धन विभारत करना भटक्या विमुख जातींने स्वतंत्र प्रवर्षे तपार करण्यात आचा, या भटक्या विमुख जाती या नावाले संघोधान्या मेलेल्या प्रवसीच्या निविध प्रधाला आणि त्या प्रधाल्या संग्रहतपुर्वीसाठी करावयाच्या. वचात्राचा विचार प्रस्तुत जोधनिवधात बराववाना आहे.

भटने- विमुख जापि भारतीय समाज-

Nomad' या इचली लाग्डावा मराडी जने " घटने" लगा होती, उपटलियांहामाडी मतत घटकणांहे जमाह म्हणज 'अटबी' जमात' होय. तर दिमुण जोती म्हणजे गुयोधनीच्या युन्हेयार जाती होत. इडवी नाजपटीत मात्र 171 माल प्रिलिप प्रभागनाने चिमिन्स रोबादुगार क्या गुन्हसार जमाती मानून संबोधने, व्योता सन 1972 सन भारत सरकारने या आधेप तावकायून सुता हे ने रहणून त्यांशा ' विभूक जाती' या समुहवायन नावाने ओडवले जाड सामते, या भटनवा विमुछ जाती, वयातीचे बीववारणे वर्गीकरण

1, भविष्य बचन करवाऱ्या जाती, जणाती

बुन्दमुहे जोशी, बेले, बायुद्ध, पांगुळ, जेदीवाले, बेरावी, गोसाथी, संसर्णजीवी, इत्यादी जमाती भविष्यप्रधन अध्यया व्यातिषय मामूल आगता उपगतियोह भागवतातः-नोकरंतन करणाऱ्या वाती, वगाती-

बॉबारी, बोल्हाईर, साथ बावे, सवारी, जादूगर, मारवी, वरवेशी, विषयभी इत्यादी जाती जमाती. विविध करता म धारेषरिक सेळ करूल लोगालेक मनोरंजन करून स्वत का उदरतियाँह करतात.

वबरी, सीपालगील्या, बरवेशी, गोशावी, नदीवाले, रावरंड इत्यादी वाती ज्यातींचा समावेश पशुपालक वयांत होतो.

संगमेहनत करणाऱ्या जाती, जमाती-

अलारा, बेलवार, बराल, मारी कवर, मार्ग कहर, वियादी इत्यादी जमारी अगमेत्वर्ताची काम कल्ल आपास उपरनिर्धाह करताल.

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AIPROA

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RACISM IN JEWISH AMERICAN LITERATURE IN THE CONTEXT OF SELECTED SHORT STORIES OF BERNARD MALAMUD

DR. D. B. THORBOLE

Assistant Professor, Department of English, P. D. V. P. College, Tasgaon.

ABSTRACT

The present paper tries to analyze, interpret and discuss in details the term of racism in Jewish American literature in the context of selected short stories of Bernard Malamud. The American English literary tradition is wide range in the history of English literature. Jewish racism is the most prominent topic reflected in their writing as they face many problems in it. The American literature demands separate world in the main stream of literature, which at the same time is the part and parcel of the culture and a separate and distinct identity in it. This illustrious identity is maintained as the handle the problem. and prospects of the Jewish community. Jewish literature deals with the problems and frustration of American cultural and problems of racism. In a view of this significance study, the present paper seeks to provide a vital statement on racism in Jewish American literature in the context of selected short stories of Bernard Malamud. So, the present paper will help to understand the racism in Jewish American literature in the context of selected short stories of Bernard Malamud for all researchers as well as to all community of the society.

Key-words:-Racism, Jewish American Literature, Identity, Culture, Discussion. Etc.

1. Introduction

Bernard Malamud was one of the most promising writers of the mid-twentieth century in American literature. He was the author of eight novels and fifty-five short-stories. He was the recipient of the National Book Award for his short stories collection *The Magic Barrel* in 1952 and also won both of Pulitzer Prize and National Book Award for his fourth novel *The Fixer* in 1967. The present paper is an attempt to analyze the racism in Jewish American literature in the selected short stories of Bernard Malamud's first short story collection *The Magic Barrel*. His short stories touch lightly upon mystic elements and explore themes like racism, rootlessness, search for identity, social realism, ethnic identity, political ideology, national identity, orthodox social system, religious, love, sex and struggle of individual. Malamud was always depicts his heroes in his short stories a general quality of human being. His characters always represent the common men who have lived and are now living. It is found that his heroes suffer from racism, discrimination, ethnic identity, national identity, orthodox social system, religious, love, sex and struggle of individual.

2. Scope of the study

His short stories hold out tremendous appeal to several generation of reader in different literary (cultures) traditions. Bernard Malamud is major writer not only in the history of the

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Environment and Literature

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Environment and literature studies commonlycalled ecocriticism or environmental criticism. Ecocriteism is the study of literature and literature from an interdisciplinary point of view where literature scholars analyze texts that illustrate environmental concerns and examine the various ways literature react the subject of nature. Environment is everything that is around us it can be living and non-living things. It includes physical, chemical and other natural forces. Living things live in their environment. They constantly interact with it and adopt themselves to condition in their environment. Environment plays an important role in the healthy living of human beings. Healthy ecosystems clean our water, purify our air, maintain our soil, regulate our climate, recycle nutrients and provide us with food. They provide row material and recourses for medicines and other purposes. They are at foundation of all civilization and sustain our economies. Literature and the arts have been drawn to portrayals of physical environment and human – environment interactions. The environmentalist movement as it emerged in the nineteenth century. It gave rise to reach array of fictional and non-fictional writing concerned with human changing relationship to the natural world.

Environment and literature studies commonly called ecocriticism or environmental criticism in analogy to the more general term literary criticism- comprise an eclectic, pluriform and cross-disciplinary initiative that aim to explore the environmental dimensions of literature and other creative media in a spirit of environmental concern not limited to any one method or commitment. The art of imagination and the study thereof- by virtue of their grasp of the power of word, story and image to reinforce, enliven and direct environmental problems. Literature and environment has become a more worldwide movement with chapters throughout Europe east and south Asia and Australia, New Zealand, The United states and United Kingdom.

Wordsworth and Coleridge had consciously decided to write poetry of a particular kind. Wordsworth chose to write about themes from "common life" and in "a selection of a language really used by men" that lived in the company of nature. Love of nature is an important quality. The poet not only sing of the sensuous beauty of nature, but also see into the heart of things and reveal the soul that lies behind. Poetry from nineteenth century stands for simplicity in theme and treatment. Wordsworth's poem 'The Education of Nature' shows to us how a child is certain to grow into a perfect specimen of humanity, if it is left to the care of Nature. It shows Wordsworth love for nature.

Three years she grew in sun and shower; Then, Nature said, "A lovelier flower On earth has never sown: This child I to myself will take; She shall be mine and I will make A lady of my own".

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Global Environmental Problems And Commercial Societal Responsibility

| Mr. S. S. Gavit* | Dr. B. T. Kanase** |
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| *Assistant professor. | **Ilesd. & Associate Professor. |
| Dept. of Geography. | Dept. of Geography, |
| P.D.V.P. Mahavadyalaya Tasgaon | P.D.V.P. Mahavidyalaya Tasgaon |
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Abstract:

This Research papers dresses the concerned relationship between the concept of commercial societal responsibility (CSR) and global environmental change. By way of mapping the drivers of global environmental turn down, we highlight the problems associated with devising effective management responses under the poster of commercial societal responsibility. We present a critical discussion on the ecological efficacy of contemporary commercial societal responsibility (CSR) approach, addressing also broader theoretical questions about the mitability of commercial societal responsibility for commerce with confused and increasingly difficult environmental problems KEY WORD: Sustainability: commercial, Societal Responsibility, Global Environment, CSR

Introduction:

The world is changing at an increasing. The acceleration of globalization, innovation and development has transformed the market place but also affected the work of government, social dynamics and environmental integrity. In this sense, the commerce environment has become more varied and difficult. Particularly, non-economic issue creates a difficult challenge for commercial managers who are charged with the invidious responsibility to achieve high financial returns whilst needing to demonstrate civic virtue by being law-abiding, ethical, good corporate citizens. Not only is company probable to be beneficial but also to be sensitive to the societal, cultural and environmental aspects of their operation.

Global environmental changes which have become more in evidence and critical in recent decades, are the focal point of this Research paper. We will explore current attempts to address global environmental problems under the poster of CSR and judge their effectiveness.

Objectives:

- To identify global environment problems.
- To study global Commercial Societal Responsibility.

Globalization:

Since nineteen seventy globalization has been the subject of greatly dispute and contestation, financial Commission for Latin America and the Caribbean, although a excess of definitions seeking to describe globalization, much debate continues to be had in the literature about its dimensions and character. Broadly speaking, globalization reflects a complex process towards a widening, increasing and increasingly faster world-wide inter connectedness.

Financial globalization has been the engine of this development, characterized by the global expansion of multinational and transmational firms. Global institutions such as the the World Bank (WB), and the World Trade Organization (WTO) International Monetary Fund (IMF), have been in key actors in shaping today's global economic system. The interplay of these institutions over the last decades has brought about the coalescence of many economical markets the humanity we live in today entails a progressive march towards the development of a global economy – that is, what happens in Tokyo today impacts markets in London tomorrow. Multinational corporations have expanded their operations to include every angle in the world, with few limitations on how they go about defining new, undiscovered markets.

Global Environmental Problems:

The global environmental governance, however, is problematical as the general revaluation of the international and local tier often seems to create a political blankness. This is because the necessary political structures and processes needed to function effectively on these global and limited stages are not yet in position. The need to clear competences and political powers, for instance in dealing with environmental

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Global Environmental Problems And Commercial Societal Responsibility

| Mr. S. S. Gavit* | Dr. B. T. Kanase** |
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| Dept. of Geography. | Dept. of Geography, |
| P.D.V.P. Mahavidyslays Tasgaon | P.D.V.P. Mahavidyalaya Targarm |

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Environmental Issues

Dr. Arjun Wagh Aussistant Parlessor Department of Geography T D V P.Matneysbyslaya Tangaou Dott-Sangli (MH)

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In this allocate constrained will be still be highlight the different environmental course council by for life afference interpretation of human being. In the world of modernization many activities had done by human being build an environment to the modernization to the patient infinite states of the solutions. Description of the patient of the solution of the solution of the solutions of the solutions are appreciation of the solution of the solution of the solutions of the solutions are appreciated in control (the solution of the solution, and solution of recompose. Some of the solutions are monitored to control (the solutions of 2 to promote the

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The list of ant normalius problems has given to a great extent in the part few years. It has become very

Following are some of the major and grave problems being faced by the world.

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Global sources in directly connected to the increase in percentage of CO here in the carto's precisioned. The meth cets its sources for green house effect. But due to the increasing percentage of precisions gates, the temperature of the cetth is increasing day by day. This has resulted in the collapse of placing actual in turn are paper this for the rising and level. If the temperature keeps increasing at each a rate of the distribution of a more hand will be potentier water very duetly.

Driopotation

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It heads he in a clothate whith, first rainfall, soil erousing and very dangerous in wild accounts.

Today, passe are many options of energy sources such as printdeare, bid-fuel, coal ear. But all more statistics are statistically sources and wall get depleted in the coming years if these consumption is not the first set. For these the energy trust resources such as read and petrolecan are consultaning to the emission of circulative point. Due to the energy trust resources such as read and petrolecan are consultaning to the emission of circulative point. Due to the energy trust resources such as read and petrolecan are consultaning to the emission of direction are place. Due to the encode mange of these energy sources, may coly are the sources are time depleted but they are showhilding to the gravelenge goes which in term are adding to the plotted warming conditions.

So, many countries are conclude for alternative courses such as wind energy, solar every a blacked energy, etc., which is they help in the fature. But to get totally dependent on these recourses and ensure path party is also being may had some time.

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A Quantitative Analysis of Rural Settlements in Una Taluka of Junagadh District (GJ) - A Remote Sensing and GIS Approach

| Sunil Sonna Gavit | Dr. A. K. Hange |
|---------------------------------------|--------------------------|
| Research Student, | Research Guide, |
| S. R. T. M. U. Nandesl. | Shivaji College, Renapur |
| (Hipson Symphony Carlo and Hereicker) | |

Abstract:

The spacing distribution of rural settlements was studied for 156 settlements in the Una tohsil of Junageath district in central India using high declaration satellite imageries available in 'Google Earth'. Spatial statistical technique of 'nearest neighbor analyses was used to study the randomness in the delivery of settlements. The methodology used in the study demonstrates cost useful and correct means to study the spacing of settlements in rural surrounding area. The results of the study provide essential inputs for graving a development model for rural settlements by the local developmental establishment.

The investigative study of rural settlements with respect to spacing of settlement has large significance in terms of regional development and spatial included arrangement inputs.

Introduction1

Rural settlements are the mainly feature form of the cultoral landscape. It is artificial habitation on the earth's surface and study of the distribution of rural settlements has taken an important situation in the historical growth of geography. It is important that judgment makers concerned in rural development have at their disposal particular information to identify impact locations for concentration of services, nodes of transportation outline, development centers, etc. which mostly control the cost of services.

Una is located on the bank of Machelundririver. It has an average elevation of 14 meters (46 feet), Kodinar is located on the west, Diu is on the south, Una has the highest number of villages of all the Talukas in Gujarat state. The study area cover 156 settlements is located inside the Una teluil of Junagadh district and covering an area of 775 sq, km. The area is fundamentally an agrarian, thickly populated and well connected with major roads and railway. Though there are hig portions of forested areas and a few water hodies in the study area. (Fig.1). The general topography in the area is represented by an undulating plateau 'typical of the Decean traps with altitude unstable from about 600m to 260m above msl.

The word distribution refers to the way in which human being settlements are extending over the landscape. The pattern may be individual of isolated homes, each divided by big distances, and the pattern can be random, regular or clustered. There are a variety of factors and situation responsible for different types of rural settlements. These are: physical features nature of topography, height above sea level, type of weather and accessibility of water, cultural and ethnic factors societal structure, caste and religious conviction, and defense factors, defense against theft and robberies. Once formed, settlements may continue for centuries, long after the original advantages of the situated have become unrelated. However, it is particularly improbable that the pattern of distribution of settlements will stay behind the same settlement disuppear and grow up, some disappear completely even as completely fresh ones are recreated.

Five major types of spacing patterns can be easily identified as clustered, agglomerated or nucleated, semi-clustered or fragmented, helmeted, and dispersed or isolated. A statistical technique i.e. quantitative technique of 'Neurest- neighbor statistics' is used for influential the randomness of distributional pattern of rural settlements. Its principle is based on a assessment of the in a straight line distances separating point

from their nearest neighbor points with the distances which strength be expected if these points be scattered in a random manner within the similar area. Objective:

The main objective of this study is first of all to identify the spatial distribution randomness of rural settlement and factor influence it and secondly demonstrate the effectiveness method used in related studies of rural settlements.



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A Geographical Study of Rurality In Sangli **District Using Selected Demographic Parameters**

'S. B. Gaikwad, ²Mali Amit M.

Research Guide, Associate Professor & Head, ³Research Student Miraj Mahavidyalaya, Miraj, (Maharashtra State)., Dept. of Geography, Shivaji University, Kolhapur,

Abstract: Rurality is an indistinct concept, rurality is an index of agricultural rural economy, more working population engage in agricultural activities as well as high female population, low literacy rate, population density etc, these demographic parameters helps to measure the rurality in particular geographic area. In 2009 United Nation declared that in 2007 majority of people were not living in rural areas. Some scholars define "rural" in socio-cultural terms, while others suppose there are no differences between rural and urban. In spite of this, there are researchers trying to create a rurality index, which delineate the term "rural". In the study area rurality causes to increases disparity among the region in this context the present study examines the level of rurality in Sangli district using some demographic parameters. For this purpose, population data of 2011 is taken as base and use Z score method and composite index (statistical methods) for to measure level of rurality. The present research work totally focuses on rural demographic environment and its relation to regional rurality.

Index Terms - Rurality, Demography, Rural.

I. Introduction: 'India lives in villages' the village in India holds a distinctive place, both in the social and economic spheres. There were 212.6 million people living in rural areas in 1901, in 2001 rural population has increased to 721.1 million naturally the density of population has increased, land under agriculture has diminished, affected the forests and evacuation to urban areas accelerated agricultural labor continued to be exploited. It deserves mentioning that 2 percentage of rural population in comparison to total population has been gradually declining. Due to this regional disparity among the region has been increased. The working agricultural population, female population as well as literate population has indicated that rurality of particular geographic area. There are many scholars are try to define rurality but it's very complicated concept to explain because it changes country to country. In rural country like India, the census of India defines rural as 'An area which is marked by non-urban style of life, occupational structure, social organization which is noticeably agricultural, its settlement system consists of villages." The Cloke (1977) paper represents the first effort at creating a rurality index; Cloke developed the index for England and Wales in the United Kingdom (Cloke, 1977). Sangli district has 10 tehsils which more predominate of rural activities. The rural demographic environment is mainly depending on their local economical activities. Among the 10 thesils there were 5 thesils has more rural based environment.



II. Study Area: The Sangli district located in west of Deccan plateau of Maharashtra Nearly 75.49 percent in rural and 24.51 percent people live in urban area It is situated between 16'43' and 17'38' north latitude and 73' 41' and 75'41' east longitude. It has an area of 8,572 sq. Km. and population of 28, 20,575 according to the 2011 census. There are 735 villages and 07 urban locations in Sangli district.

III. Objectives: The objectives of the present study are:

To analyze the level of rurality in study region.

To study the variation in rurality among the thesils in study region.

IV. Database and Methodology:

The present study is descriptive research. The data is gathered through secondary sources like the table of socio-economic abstract of Sangli district, census of India and other sources related to population. Collected data calculated with the help of simple statistical techniques. Z score method and composite index has been used for to measure level of rurality. The analyzed data presented in tables and maps. V. Results and Discussion:

Traditionally, the number of inhabitants in a geographical area or population density has been considered variable in attempt to measure rurality. Both these indicators, however, have been considered as inappropriate to measure such a complex, multidimensional concept as the rural setting (Martin, 2000) Population

density in rural area of Sangli district is varies considerably, ranging between 146 inhabitant /km2 and 573.05 inhabitant /km2. The means is 293.89 inhabitant /km2 with a high standard deviation (Table. 1). The literacy among the rural population ranging from 61.17 to 77.39 person per 100 inhabitants.

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Performance Evaluation of IQAC: The Responsibility of The Principal And Coordinator

Annel C. Semewala

PDVP, Makarudyalaya, Taugana.

ABSTRACT

Quality assurance and enrichment is the continuent process, for which Internal Quality Assurance Cell (10.4C) has been constituted in many college. The functions of 10.4C and the mefficiency of college administration being interconnected, depend on the degree of transference of power and authority with high-leveled interest through division of work via the participancy and pactive association of every member in the institution. It is expected that the Principal chould implement the investitie isless suggested by RLAC. But, in some cases it may be difficult for the Principal in work on any other) orders though they have come from a independent organized mechanizm of 12.1C. The coordinator heavy on shead of you for the orders of the Principal over for conducting the meetings of the BQAC and writing the AQAR. Academic superiority is a result of democratic, unidirectional surgeted near work of all the stabebolders regular

Key Words: JQAC, Quality Culture, Stakeholders, Buserative ideat, benchmarks.

Introductions

In November 1955, The University Genes, Communition was established as a standary body of the Gevantations of India through an Act of Parlianismit. University Granti Communion is the only grant giving agency in our resulty. Main two empounduities of University Grants Commission are providing and co-ordinating facances , and maintaining the standar in antitutions of ligher adaration. The university Grants Commission's mandate anolyes Promoting and coordinating university. level education, influencing and maintaining standards of teaching, examination and research in Universities, framing pegulations on miniation standards of higher education. In the field of college and university education monitoring to a necessary. UGC disburses available gram to the universities and affiliated colleges and also serves as a said way between the Union and State Government and institutions of higher learning. UGC advices the Central and State Government on the pencedures necessary for enhancement of academic standards of universities.

To scrutizize values of the higher educational antitutions, it established the National Assessment and Arcreditation Cronecl as an autonomous body in September1994 under the Act Section 12(coc). National Atomament and Accreditation Council is entructed with the task of performance evaluation, amenament and accreditation. of all Universities and affiliated Colleges in the Country. The philosophy of National Assemusent and Accreditation Council is amaliarative and enabling rather than corrective er critical, so that all constituencies of institutions of higher laurning are empowered to annumers their resources, epportunities and expabilities. National Assessment and Accorditation Council has been instilling a face of quality consciouners manufit institutions of higher education airing for constant sponsing. National American practice of National Associations and Accordination Council

and Acceeditation Council in triggering a quality endness between the various convinents of the higher adarational institutes as well as enhancing the awareness of Institutional Quality with all stakeholdiers. The man outline of National Assessment and Accorditation Council is to Ariess and Accreditate Institutions of higher learning with an objective of helping them to work constantly to improve the quality of education.

Ameriment is a performance evaluation of an HEL and for its units and it accomplished through a process based on cell-chuly and peur neview using defined crimeia. Accessization refers to the contification given by NAAC which is valid for a peaced of five years. NAAC accession UGC 305 & 128 as well as sun 205 & 128 H21s. All stakeholden have to be fully sugaged in the endervour of quality accumutes of the HEIs. Therefore, it is essential that higher educational institutions are forced to establish their individual internal associantions for contenance, accurate and enhancement of the quality culture of education imparted by them. The efficacy of external quality assessment would therefore be determined by the effectiveness of such untitutional internal quality systems and processes.

Objectivat

- To understand the sole of Internal Quality American Cell in maintrining overall encellence utunitatis in a college.
- To examine the role of Principal and essediants of IQAC in quality culture.

Research Methodology: The present study is totally based on secondary data. This is collected from journals, books and various webuites.

Internal Quality Amurance Cell (IQAC) : Mury autitations have established the Internal Quality Assurance. Cell as a pest accorditation quality provisions activity. The

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'RESEARCH JOURNEY' International E- Research Journal ISSN: Impact Factor - (SHF) - 6.261. (CH) + 3.452(2015). (GIF)-0.676 (2013) Issue No. 107- Self Employment : A Tool of Economic Development **UGC Approved Journal**

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Self Employment Opportunities in Food Processing Sector

Prof. Ajay D. Kate Adarsh College, Vita (Maharashtra)

Prof. Amol G. Sonawale, P.D.V.P. Mahavidyalaya, Tasgaon (Maharashtra)

Abstract:

Today this movement for austaniable agro base industries development is gamering a reasing support and acceptance within mainstream agriculture. Agto based enterprises bute extremely to the aoxioeconomic development of Mohanishtra. The sector accounts for more than 95% of the industrial units and contributes 45% of the manufacturing output and 40% Jest export (Ministry of MSME, 2014). As a result sustainable agriculture address nonv. minental and social concerns, but it offers innovative and economically viable munities for growers, laborers, consumers, policymakers and many others in the entire food secon So consequently, small enterprises play a vital role in creating employment and helping in the industrialization of rural and backward areas.

Key words: Agro processing. Employment, Government

Introduction:

The food-processing sector in India has a significant presence in the country's industrial score. The sector contributed 12.5% share of manufacturing GDP during 2000-01 at 1993-94 prices and 26.9% of the total employment in manufacturing sector during 2000-01. The estimate of uniployment in different food processing sub- sectors is given at Table no. 1.1. The share of number of enterprises in food processing sector, impercentage of total number of enterprises in monifocturing sector is 30% during 2000-01. Food Processing constitutes a high share of unorganized sector and also has a high rural share.

Expansion of food processing sector

1 Creating new employment opportunities in quantitative terms.

Improving the quality of employment so that traditional low quality, low income, employment opportunities is gradually replaced by higher income, better quality employment.

Government support to promote growth of food processing sector

Various measures taken by the government to promote growth in food processing industry and initiate modernization in it during the nineties include

- No government permission is now required for setting up of rice mills
- All food processing industries, except beer, potable alcohol and wines and reserved items for SSIs have been exempted from the purview of licensing.
- · Most food processing industries, which were hitherto considered as luxury industries have been, accorded priority industry status.
- Automatic approval for foreign investment up to 51 per cent has been allowed practically. in all sectors of food processing except for those that are reserved for small-scale sector and also for which an industrial license is required.
- · Fiscal relief provided to a large number of processed food items by reducing custom duties on various plants and equipment
- Semoval of the requirement of specific approvals for labels for every packed food product is an additional incentive.

DEVELOPMENT OF RURAL ENTREPRENEURSHIP IN INDIA

LSSN-2278-5655

Prof. Amol Gowardhan Sonawale Department of Commerce, P.D.V.P. Mahanidyalaya, Tangaim

int oduction:

AMDRE

The term entrepreneur is a relatively new term and concept used in economic subject. Because of its increasing the orde in contamic subject over the period it has become the buzzword in the economic literature. However a houseen defined differently by different writers and thinknes. An entropreneur is an individual who, rather na working as an employee, founds and runs a small business, assuming all the risks and resords of the service. The entrepreneur is commonly seen as an innovator, a source of new ideas, goods, services and mainess or procedures. Rural entrepreneurs are those who carry out entrepreneurial activities by establishing indictrial and business units in the rural sector of the economy. In other words, establishing industrial and samess units in the rural areas refers to sural entrepreneurship. In simple words, rural correpreseurship implies encorreneurship emerging in rural areas. Or, say, rural entrepreneurship implies rural industrialization. Thus, section say, entrepreneurship precedes indivitialization.

Objectives

- 1. To study the concept of rural development.
- 2. To study the development of rural entrepreneurship in India.

Colonie Arth Special Lines - Name

- 3. To study the need for rural entrepreneurship
- 4. Methodology: The present study is based on anondary data. The data is collected from books,
- 5. journals and websites.
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Faral Development

The term is used to mean "organizing things" so as to change existing conditions in favour of a hener the. There may be many variants of development drawing their nonienclature from the sphere of activity where the change is managed or the type of change or the 'method' how the desired change is attained. For several deades the term was used, solely, for economic change, inclusive of the conditions which affect betterment. The concept was later extended to its wider meaning to embrace "changes" of political, social, cultural, is anniocical, economic and also the psychological frame of society. In its current meaning, "development" is anti to express animated change for reaping atmost human potential. Technically, development is the name of a "I d' and its 'Consequent programmes', designed to bring about a desired change' in social, economic, in fineal, or technological spheres of life. It is concerned with the promotion of human capacities : Physical or and to attain the cherished social goals. Development is potential-related, and it can be attained to the extent of the existing development potential, which is measured by the 5 unexploited resources, talents, margin of "thistication and the 'will power' which implements development policy. Development is the conditioning of In stress, and when efforts are hod towards the use of Growth potentials in rural economy and Society, it is rural Sauloguicat.

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|---|--|
| Religious Tourist Centre Oriented Rural Settlement Pattern | |

* Gavit Sunil Soma (Research Student) S. R. T. M. U. Nanded ** Dr. A. K. Hange (Research Guide) (Shivaji College, Renapur)

Abstract:

Tourism is one of the new emerging activities not only in Indus's well developed destinations but also name districts and teksils completely depend upon tourism. It is possible only because of reality of Indian physiographic. Culture and Historical factors. Navague taheil is one of them this taheil well known for the large [Ikal Dam is near the city of Navapue.

Amongst the temples in the areas are the Robadia Hamonaan at Wankipada Bridge, Dust mandir and Rang Auditorst Pastuka Mundir near the Juni pass office, Ranji Mandir in Sordar Chavk, Aashopuri Mundir in Shroff Fulia, Sai Baba semple in the Probhakar colony and Shahri Mata Mandir, located in Subir village. Mission Tekdi and Tulayo donger are place of interest for many.

Therefore present challenge is made here to study distribution and spacing of new elsing tourism centers. Calculation is complete by using primary as well as secondary data. Collected data will be analyzed by using naurest neighbor technique of Evans and Clark. As per this method the all rural sourist centers spacing clustered in pattern and has vast scope for development.

Keywords: Tourism, Nearest Neighbor Technique, Deomogra mata yatra. Etc.

Introduction:

Today, tourism is known as the fast developing activity of the world. The world accepted the significance of tourism in the economy of that place, so day by day various tourist places are immerging all the way through the world. To preserve and protect the tourist centers are necessary for the tourism development. In Navapur tabsil there are various rural tourist places are situated this all places have its own historical, cultural, geographical as well as religious importance. These all destination are not uniformly distributed all over the tabail. And to study of these tourist destinations and its circulation is very necessary for the future planning.

Surrounded by the temples in the areas are the Rokadia Hanumaan at Wankipada Bridge, Dutt mandir and Rang Avdhoot Paduka Mandir neur the Juni post office, Ramji Mandir in Sardar Chawk, Anshapuri Mundir in Shroff Falia, Sai Baba temple in the Prabhakar colony and Shabri Mata Mandir, located in Subir village. Mission tekdi and Tulsyo donger are place of interest for many.

Nandurbar district is rich socio-cultural establishment and religious historical background. Also it is bounded by religious centers; such as Prakasha, one of the famous religious places, also known as Dakshin Kashi, temples of God Shree Ganesha (Heramb), Shri Datta temple, Umaj Mata temple, Ashwashthama and Shanimanda, Dandapaneshwar Ganesh Mandir, Devi Dev Mogra Mato(Yahamogi mata) is mother goddess of Adiyasis community. Toranmal, Gaumukha, Aalkuvali mata. The weekly bazaar is called Shanivari (Navapuryo) i.e. held on each Saturday.

Objectives:

- To study the sorting and division of nual tourist centers.
- . To study the spacing of rural tourist Centers.
- · To introduce the new rising tourist destination.

Methodology:

This study is based on primary as well as secondary data sources. Primary data regarding the distribution and classification of tourist spot obtained through participatory field visit while secondary data is collected by various sources like book, journals, maps, news papers etc. For the analysis of data nearest neighbor technique has been used.

Study Region:

Navapur tabail is the south most tabail of the Nandurbar district. Navapur has its history of It was earlier on the Mughal trade route going to Agra and a few ruins of the Serai and Caravan sentry forts still survive. This tahiil bounded from south by Rangavali River and Dang district Gujarat state to the north Uchhal tahsil, the east sakri, to the west songadh. Tahsil bounds this tahsil. It lies between the 21 10 12North and 73 46 48East longitudes. This tahsil covers area about 976.68sq.km, some of

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Irrigation System in Nandurbar District

Mr.Sunil.S.Gavit

- (18) -

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Assistant Professor, DKASC College, Ichalkaranji.

Introduction

Water is the most important factors for the growth of crops. Irrigation is the application of controlled amounts of water to plants at needed intervals. Irrigation heips grow agricultural crops. If water is available in adequate quantities crops can be grown successfully water supply is available an adequate quantity than the increases security of life and yields of crops but also compare states for uncertainty and induct of normal rainfall.

Irrigation is an artificial application of water to land by human effort to assist the growth of crops. Irrigation has assumed an increasing importance of india agricultural in the context of few technology. Where high yielding verities and multiple cropping is being practical.

Irrigation can do more than just support farming activities the efficient use of water permits the applications of modern agricultural altogether, use in right combination can lead to very successful agriculture as demonstrated by the success achieved by the used of high yielding varieties, with helps of irrigation farmers can change cropping pattern increase per bectares yield maximum agriculture irrigation can bring prosperity in socio- economic change that state motion the productive forces in the sectors of agriculture

Objectives:

- To study irrigation sources in the study region.
- To study irrighted area under irrigation projects in the study region.

Methodology:

The present study is based on Secondary data which is collected from various department like department of irrigation of Jilha Parishad, Bhumi Abhilekh Office, Nandurbar, Socio-economic abstract and district census handbook of Nandurbar district.

Study Region:

Akrani Tehnil lies in the North Western part of Nandurbar district, Akrani Tehnil extends between 21°49'27" to 21º 82' North latitude and 74º13'01" to 74º21' East longitude. The Satpura Mountain and piedmont plain stretches from east to west, Northern part of the study area is occupied by Satpura Mountain and central part of the area is occupied by piedmont plain. Satpura hills, the Narmada Valley Region. Location Map: Nandurbar District





Result and discussion:

Table No. 1: Irrigation Sources in Nandurbar District

| Sr. Na | Tahail | Medium project | Small | Open wells | Tub/bore lift | Kolhapuri |
|-----------|-----------|-------------------|-------|------------|----------------|-----------|
| 1 | Akkalkuva | 01 | 10 | 1240 | arrigation 114 | bandhare |
| 2 | AKRANI | | 12 | 225 | 114 | 10 |
| 3 | Taloda | | 01 | 2610 | 142 | 12 |
| 4 | Shahade | 03 | 04 | 4505 | - 25 | |
| 5 | Nandurbar | 01 | 08 | 12675 | 29 | 04 |

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Synthesis of Novel Acidic Ionic Liquid [BBSA-DBU][HSO₄] and Its Catalytic Activities for Synthesis of Pyrazolopyranopyrimidine Derivatives

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A novel Browned acid ionic liquid 1,8-for(botaneoulphonic acid)diazobicycio[5.4.0]ondec-7-ensum bydrogen sulplate [BBSA-DBU][HSG,] has been symbolized from 1,8-diazabicyclo(5.4.0]undec-7-ene (DBU). The synthesised ionic liquid was characterized by 'H and 'C NMR spectroscopic techniques. The room-temperature derived ionic liquid is highly acidic due to presence of two -SO,H groups and two -HSO," amons. The ionic liquid [BBSA-DBU][HSO,]showed high catalytic activity (5 mol %) for the synthesis pyrazolpyrano-pyrimidine derivatives with good to excellent yields in short reaction time at 60 °C under solvent-free conditions. Moreover, ionic liquid could be easily recovered and reused at least five times without change in in catalytic activity.

Keywords: Bronsteel acid, SO,-H, Bifunctionalized ionic liquid, Pyrazolopyranopyrimidine, Reseable cutalyst.

INTRODUCTION

Ionic liquids (ILs), being familiar as environmentally benigh media and widely used as solvent as well as catalysts for many reactions [1-6]. The great number of functional ionic liquids has been designed for different purposes [7,8]. Recently development of alternative synthetic tools for organic synthesis using ionic liquids have attracted significant attention, due to their distinctive properties like low vapour pressure, high thermal stability, excellent solvation ability, various liquid temperature range, better chemical stability, recyclability and solubility [9,10]. Especially, they shown efficient catalytic activities for many organic reactions like Diels-Alder [11], Aldol [12], Knoevenagel condensation [13], Michael addition [14], oxidation [15], etc.

Pyrazolopyranopyrimidines are a nitrogen and oxygen containing heterocyclic compounds and are useful in organic synthesis and medicinal chemistry because pyrazolopyranopyrimidines contain both pyranopyrimidine and pyranopyrazole as biological active nucleous [16]. Pyrazopyrazoles derivatives have occupied a unique position in medicinal chemistry because of their biological and pharmacological activities [17], analgesic, antiinflammatory activity and act as vasodilators as well as hypotensive and hypoglycemic agents [18], antidepressant [19] and antitumor agents [20]. In addition, fused heterocycles systems like pyrazolopyridines, pyranopyrazoles and pyrazolopyridopyrimidines present interesting biological properties such as anticancer [21], cytotoxic [22] and antimicrobial activities [23]. However, these methods show varying degrees of success as well as limitations such as lower yields, use of expensive catalysts, prolonged reaction times, use of toxic organic solvents, and harsh reaction conditions. Therefore, we developed a new protocol for the synthesis of pyrazolopyranopirimidine using -SO₃H bifunctionalized Brønsted acidic ionic liquids. Herein, we wish to report a synthesis of series of novel -SO₃H bifunctionalized Brønsted acidic ionic liquids (BBSA-DBU][X]in aqueous solution and their application in organic synthesis. The Brønsted acidity strengths were determined by Hammett acidity function method performed on UV/visible spectra. This prepared ionic liquid used as catalyst for the pyrazolopyranopyrimidine synthesis in high yields (Scheme-I).

EXPERIMENTAL

All chemicals were purchased from Sigma Aldrich and used without further purification. Acidity of catalysts was checked by UV/visible spectrometer (Shimadzu model UV2401-PC). The purity of products and completion of reaction was checked by thin layer chromatography (TLC) on Merck silica gel (60 Fm) plates. 'H NMR and ''C NMR spectra were recorded on a Bruker AC (300 MHz) spectrometer using CDCIs or DMSO as a solvent. Chemical shifts are expressed in 8 parts per million (ppm) values with tetramethybsilane (TMS) as the internal reference. Infrared spectra were measured with a Braker FT-IR spectrophotometer. Melting points of all compounds were recorded on DBKprogrammable melting point apparatus and compared with reported values.



Synthesis of Novel Acidic Ionic Liquid [BBSA-DBU][HSO4] and Its Catalytic Activities for Synthesis of Pyrazolopyranopyrimidine Derivatives

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Keywords: Bennsted acid, SO-H, Bifunctionalized ionic liquid, Pyrazolopyranopyrimidine, Reusable catalyst.

INTRODUCTION

"Ionic liquids (ILs), being familiar as environmentally being media and widely used as solvent as well as catalysts for many reactions [1-6]. The great number of functional ionic liquids has been designed for different purposes [7.8]. Recently development of alternative synthetic tools for organic synthesis using ionic liquids have attracted significant attention, due to their distinctive properties like low vapour pressure, high thermal stability, excellent solvation ability, various liquid temperature range, better chemical stability, recyclability and solubility [9,10]. Especially, they shown efficient catalytic activities for many organic reactions like Diels-Alder [11], Aldel [12], Knoevenagel condensation [13], Michael addition [14], oxidation [15], etc.

Pyrazolopyranopyrimidines are a nitrogen and oxygen containing heterocyclic compounds and are useful in organic synthesis and medicinal chemistry because pyrazolopyranopyrimidines contain both pyranopyrimidine and pyranopyrazole as biological active nucleous [16]. Pyranopyrazoles derivatives have occupied a unique position in medicinal chemistry because of their biological and pharmacological activities [17], analgesic, antiinflammatory activity and act as vasodilators as well as hypotensive and hypoglycemic agents [18], antidepressant [19] and antitumor agents [20]. In addition, fused heterocycles systems the pyrazolopyridines, pyranopyrazoles and pyrazolopyridopyrimidines present interesting biological properties such as anticancer [21], cytotoxic [22] and antimicrobial activities [23]. However, these methods show varying degrees of success as well as limitations such as lower yields, use of expensive catalysts, prolonged reaction times, use of toxic organic solvents, and harsh reaction conditions. Therefore, we developed a new protocol for the synthesis of pyrazolopyranopirimidine using -SO₃H bifunctionalized Brønsted acidic ionic liquids. Herein, we wish to report a synthesis of series of novel -SO₃H bifunctionalized Brønsted acidic ionic liquids [BBSA-DBU][X]in aqueous solution and their application in organic synthesis. The Brønsted acidity strengths were determined by Hammett acidity function method performed on UV/visible spectra. This prepared ionic liquid used as catalyst for the pyrazolopyranopyrimidine synthesis in high yields (Scheme-I).

EXPERIMENTAL

All chemicals were purchased from Sigma Aldrich and used without further parification. Acidity of catalysts was checked by UV/visible spectrometer (Shimadzu model UV2401-PC). The purity of products and completion of reaction was checked by thin layer chromatography (TLC) on Merck silica gel (60 F₂₉₄) plates. 'H NMR and ¹⁵C NMR spectra were recorded on a Bruker AC (300 MHz) spectrometer using CDCl₃ or DMSO as a solvent. Chemical shifts are expressed in 5 parts per million (ppm) values with tetramethylsilane (TMS) as the internal reference. Infrared spectra were measured with a Bruker FT-IR spectrophotometer. Melting points of all compounds were recorded on DBKprogrammable melting point apparatus and compared with reported values.

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Research



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Subject Category: Chemistry

Subject Areas:

green chemistry/organic chemistry/ aynthetic chemistry

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THE ROYAL SOCIETY

Synergistic effect of natural chickpea leaf exudates acids in heterocyclization: a greener protocol for benzopyran synthesis

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SP,0000-0003-2713-6007

Without using any toxic or hazardous reagent, ligand, acid, transition metal catalyst, additives/promoters and organic solvent, green Knoevenagel condensation and tandem Knoevenagel-Michael reactions have been successfully carried. out by using chickpus leaf exadates as a naturally sourced Bronsted acid type bio-catalyst. The reaction proceeds in next chickpus leaf exudates at risom temperature in aqueous conditions in very short reaction times, and therefore, it is an evergreen and environmentally sound alternative to the existing protocols for benzopyran synthesis. In comparison to the conventional methods, this synthetic pathway complies with several key requirements of green chemistry principles such as the utilization of biodegradable catalyst obtained from renewable feedstock, auxiliary aqueous conditions, along with waste prevention. The same protocol was also extended to the synthesis of 2H-santhene-L8-diones by condensation of aromatic aldehydes with dimedone achieving excellent yields. Thus, the reported protocol offers an attractive option because of its ecological safety, environmental acceptance, sustainability, low-cost straightforward work-up procedure and with excellent values of green chemistry metrics as compared with other reported methods.

1. Introduction

While considering the increasing environmental pollution and its intensive impact on living systems, developing chemical processes using more environmentally acceptable chemicals, catalyats, solvents, atom-efficient methods and energy-efficient

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Keywords:

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Review .

Functionalized nitrogen ligands (C-N) for palladium catalyzed crosscoupling reactions (part II)



Arjun Kumbhar

Department of Chemistry, Padmathashan Dr. Vasammundade Patil Cellege, Tatgueri, Affiliated in Shinup University, Kolhaput, Mahunahma, 435312, India

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ABSTRACT

In recent years, considerable effort has been focused in Pd catalyzed cross-coupling reactions, especially the size of less reactive and economically viable substrates like aryl chlorides. Unfoctunately, Pd complexes containing the ligands having only N as a doisor atom has some limitations, as it couples, mostly aryl indides and bromides with different nucleophiles, and shows less activity towards aryt chlorides. This restriction can overwhelm by the use of Pd complexes containing N in combination with the C as a donor atom such as palladacycles, pincers, PEPPSI and carbene ligands. The advantages of these ligands include high activity with enhanced selectivity, less toxicity, moisture, air as well as thermal stability. Most importantly, such complexes have broad applications in catalysis under ambient conditions. This paptications in cross-coupling reactions. In the next part, we will cover all ligands and complexes and their applications in cross-coupling reactions. In the next part, we will cover all ligands and complexes containing N in combination with P, O and S as a doord atoms (Pd catalysts based on C-P, C-O and C-S ligands). Though, the number of C–N based Pd complexes containing Feroscene and Biactivald ligands were reported for Pd catalyzed cross-coupling reaction, these complexes will be covered in the next part of the article.

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Synthesis and characterization of new quaternary ammonium surfactant [C₁₈-Dabco][Br] and its catalytic application in the synthesis of spirocarbocycles under ultrasonic condition

Trushant Lohar¹ - Arjun Kumbhar² - Audumber Patil¹ - Siddharth Kamat¹ -Rajashri Salunkhe¹

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Abstract

A novel DABCO-based cationic surfactant [C₁₈-Dabco][Br] has been easily synthesized by the reaction of DABCO and octadecyl bromide in acetonitrile at room temperature in excellent yield. The synthesized surfactant was fully characterized by various techniques like FT-IR, ¹H NMR, ¹³C NMR, LC-MS and TGA-DTA analysis. Furthermore, the critical micelle concentration of the surfactant was determined by the conductivity measurement method. The activity of the [C₁₈-Dabco][Br] has been demonstrated for the one-pot synthesis of spirocarbocycles under ultrasonic conditions in water. The presence of the long alkyl chain acts as the hydrophobic part while the free tertiary nitrogen site in the surfactant acts as a base and enhances the overall catalytic activity.

Keywords DABCO-based cationic surfactants - [C18-Dabco][Br] -Spirocarbocycles - Water medium - Ultrasound

Introduction

The development of novel synthetic routes, especially cleaner ones that satisfy increasingly stringent environmental constraints, are in great demand by the pharmaceutical and chemical industries [1]. Multi-component reactions (MCRs) are one

Electronic supplementary material. The online version of this article (https://doi.org/10.1007/s1116 #-018-3690-8) contains supplementary material, which is available to amborized users.

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ATRAZINE MEDIATED HEPATHOLOGICAL DISABILITIES IN FRESH WATER FISH AMEIURUS MELAS

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ABSTRACT:

In present investigation the fish Amelurus makes was exposed to the acute[96hours] tonicity of Atrazine. The LC50 was found to be 120ag/L. The control group was run simultaneously. After 96hrs the fish were dissected and the liver tissue was taken out and processed for routine HE technique. It was found that Atrazine is hepstotoxic to Ameiurus melas. In the liver of control fish, no pathological alteration and no vacuolation of the hepatic cell was recorded. The liver shows vacuolar degeneration of hepstocytes and disintegration of the sinusoids and ruptured wins are also reported. **Reywords:** Ameiurus melas, Atrazine, Liver.

INTRODUCTION:

κ.

In the agricultural fields the use of herbicides to protect the crops from the attack of unwanted plants has been considered as an integral part of modern agricultural practice in the World. But indiscriminate use of this is dangerous to aquatic ecosystems as well as fish farm which are close to agricultural field. They ultimately reach to aquatic bodies and cause harmful effect on non target aquatic animals such as fishes. Herbicides are most commonly used pesticides in agriculture. Thus it causes adverse impact on aquatic biota. A high concentration of herbicides reduces the survival, growth and reproduction rate of fishes and produces matiy adverse effects (Rahman et.al2002).

Atrazine is a widely used herbicide in many countries for controlling grassy weeds in agricultural crop. Prolonged use of Atrazine and its persistence involves the risk of its retention in crop and soil. This compound also passes from surface to ground water (Mundiamet.al, 2011). Atrazine (2chloro-4-ethylamino-6-isopropylamino-1,3,5-

triazine) is a herbicide first approved for use in US in 1958, where it is used primarily in the field of corn, sorghum and sugarcane(Solomon et.al; 1996). Atrazine inhibit electron transport in photosynthesis II which result in disruption of photosynthesis and in turn leads to death from starvation in broad leaf plant (Gidding et.al2004).

Several recent laboratory studies have shown that environmentally realistic concentration of Atrazine have significant toxic effect on fish. For example - low concentration of Atrazine (lag/I) altered olfactory mediated endocrine function in male Atlantic Salmon (Moore and Lower, 2001). At 100µg/l Atrazine altered the Na, K and ATP are activity in common carp held in fresh water, indicating osmoregulatory disturbances (Hanke et.al, 1983). In recent years considerable histopathological studies have been conducted on fish exposed to sub lethal concentration of different pesticides and herbicides (Alazemi B.M., Lewis J.W. and Andrews.E.B., 1996). As a result the tissue changes are the functional responses of organisms which provide information on the nature of toxicant. Fishes are the most useful bio-indicator of environmental quality because of their close contact with water (De flora et.al, 1993). Thus toxicity studies are essential for determining sensitivity of animals to toxicants and also useful for evaluating the degree of damage to target organs and the consequent physiological, biochemical and

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RESEARCH ARTICLE

Carbon Sequestration by Standing Trees at the Amrai Park of Sangli City (Maharashtra) - India

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ABSTRACT

Plants are known to absorb the atmospheric carbon by plannsymbosis. This absorbed carbon is stored in various organic forms and helps to produce the biomass. The absorption of the atmospheric carbon is depend on the structure and life form of the plants. These dominate this process. Greater and tailer is the size of the tree more is the amount of carbon fixed. Hence these are the major plant forms to absorb maximum atmospheric carbon and biomass production. Thus, the present investigation was carried out to calculate the carbon sequestration of 22 standing tree species in Annai Park of Saugh city. The biomass and total organic carbon of standing trees is estimated by the non-destinctive method. The population of Swearner makagoss (C) Jacq is more in the campus anal it sequestrates the 77500.25 lbs carbon/year.

Keywords: Carbon sequestration, Annai Park Sangli, Standing trees

RESEARCH JOURNEY' International Multidisciplinary E- Research Journal ISSN : Impact Factor - (SJIF)-6.261(2017). (CIF) -<u>3.452(2015)</u>. (GIF) -<u>0.676</u> (2013) 2348-7143 October. 2018

Effect of Biofertilizers on seed germination of Maize (Zea mays L.,) varieties Eco-92 and African tall

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Abstract :

An attempt has been made of study the effect of biofertilizers (Azotobacter and Phasphate Solubilizing Bacteria) on the seed germination of Maize (Zea mays L.) varieties Eco-92 and African tail. The biofertilizers were applied in concentration of [100gm each packet per 10Kg of weds].Seed and Filter paper treatments were used in the experiments, completed with autoclaves biofertilizers treatment. The seed and filter paper treatment of biofertilizers were applied to seeds of Eco-92 and African tall. It is revealed from the experiment that, there is considerable enhancement of seed germination and also in length of roat and shoot of Eco-92 as compared to control. These biofertilizers treatments are found to be atimulate the seed germination and growth performance of root and shoot.

Keywords- Biofertilizers, Maize seed, filter paper, germination

Introduction:

Maize originated from Mexico .Maize is one of the three most important cereal crops in the world. Every part of the maize plant has economic value and cob can all be used to produce a large variety of food and non-food production (IITA 2006).It is cultivated on over 13% of world's croplands (Leff *et al.*2004). Seed germination is a basic growing skill that involves causing a seed to sprout. It is the process of reactivation of metabolic machinery of the seed resulting in the emergence of radical and plumule .Various sources of biofertilizer include nitrogen fixers, Phosphate solubilizing bacteria, plant growth promoting rhizobacteria (shekh,2006) Application of biofertilizer became a great necessity to get a yield of high quality and to avoid the environmental pollution(Shevananda,2008).

Though nitrogen and phosphorous are essential nutrient for plant growth and development in corn, biofertilizers are able to fix atmospheric nitrogen in the available form of plants (Chen, J.2006). Positive response to maize to nitrogen fertilizer has been reported by (Aflakpui *et al*). Biofertilizer contain micro-organism, that increases or promotes the important nutrients crucial for overall production the soil (Karthick *et al* 2014) In maize application nitrogen and phosphate biofertilizer increased yield components of maize (Beyranvunv and *et al* 2013). It has been revealed that the effect of nitrogen fixation induced by nitrogen fixers is not only significant for legumes, but also non-legumes (Doebereiner and Pedrosa, 1987). One of the ways to improve germination is' to use seed priming'. A major aim of seed priming is to partially hydrate the seed to a point where germination process starts but does not end. Several ways to seed priming exists, such as hydro priming, solid matrix priming and biopriming (Ashraf, M. *et al* 2005). Various priming treatments have been developed to increase the seed and synchrony of seed germination.

Material and Methods -

In present study the healthy seeds of Maize (Zea maya L.) variety Eco-92 and African tall, procuved from Eco Agriseeds pvt.Ltd.Hyderabad and Biofertilizers Azotobacter and phosphate solubilizing bacteria respectively from Mahatma Phule krishi vidyapeeth, Rahuri. In these experiments direct seed treatment method was used. Germination was tested in filter paper. Filter

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International Journal of Scientific Research and Reviews

An Account of Desmid Diversity from Kolhapur Distric(Maharashtra), India.

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ABSTRACT:

Desmids are the most beautiful conjugal members of Chlorophyceae as they represent the unicellular conjugales among the green algae. Desmids have played an important role in the phytoplankton biodiversity of major and minor water bodies. Present survey is the outcome of thorough screening of water bodies from Kolhapur district. During the systematic investigations on the deamid biodiversity of Kolhapur district, Maharashtra, authors recorded 86 taxa belonging to 13 genera viz., Actinotaenium (Nageli) Teiling, Closterium Nitzsch ex Ralfs, Cosmarium Ralfs, Desmidium C. Agardh, Euastrum C.G. Ehrenberg ex Ralfs, Micrasterias C. Agardh, Netrium (Nageli) Itzigsohn & Rothe, Pleurotaenium Nageli, Spondylosium Brebisson ex Kutzing, Staurastrum (Meyen) Ralfs, Staurodesmus, Triploceras J.W. Bailey, Xanthidium C.G. Ehrenberg ex Ralfs. The survey revealed the dominance of Cosmarium in the study area.

KEYWORDS: Desmids, Kolhapur, Conjugales, diversity.

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Chougule et al, RJLBPCS 2018

Life Science Informatics Publication



Original Research Article

OCCURENCE OF MYCOFLORA ON ONION (ALLIUM CEPA L.) BULBS

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Abstract

For present investigation onion (Allium cepa L.) red and white varieties were selected to study occurence of mycoflora in fields and storage conditions, because onion bulbs are highly damaged due to number of fungal pathogens in field as well as in storage condition. For isolation of fungi dilution plate and humid chamber methods were applied. Total twelve fungal species were isolated from onion bulbs. *Botrytis cinerea, Rhizoctonia solani, Cladosporium alli, Botrytis allii, Sclerotium rolfsit, Colletotrichum circinans* and *Urocystis cepulae* showed high frequency occurence on the bulbs from fields where as fungi like *Aspergillus niger, Aspergillus flavus, Curvularia hunata, Fusarium oxysporum* and *Rhizophus stolonifer* were showed high frequency occurance on bulbs from storage condition.

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Introduction

Onion (*Allium cepa* L.) is very important bulb crop cultivated in irrigated conditions all over India. The crop is affected by various fungal pathogens causes yield loss both in field as well as storage conditions. Due to rough handling, wrong agricultural practices and poor storage bulbs are infected by number of fungal pathogens. The present investigation deals with identification of mycoflora associated with onion bulbs from field as well as storage.

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Original Article

Effect of passage on the development of Benomyl resistance in Fusarium udum (Butler) causing wilt in Pigeon pea

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Abstract

By culturing the sensitive Fusarium undum (Butler) isolate on fungicide Benomyl, continuously for eight consecutive passages significantly showed increase in resistance. Whereas use of Benomyl altering fungicide Blitox and Kocide reduced the resistance while fungicides Kavach and Roko helped in complete inhibition of the pathogen. When fungicides were used in mixture there was complete inhibition of radial mycelial growth, hence effect of all fungicides together will prove to be promising for inducing resistance in Pigeon pea.

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Key words: Pigeon pea wilt, Fusarium udum, Benomyl, Fungicides.

I. Introduction

Pigeon pea (Cajanus cajan L.) Millsp. a member belonging to family Fabaceae is one of the most essential leguminous food crop cultivated in tropical and subtropical countries like, Madagascar, India, Myanmar, Philippines, Australia. India, Myanmar, Malawi, Tanzania and Kenya are the top 5 producers of this crop. Amongst them India holds a major contribution of 90% of total world production. India engages an area of 3.85 million hectare with an annual production of 2.68 million tonnes (Anonymous, 2002). The plant helps in re-establishing soil productivity by atmospheric nitrogen fixation (Reddy et al., 1990). Pigeon pea is a commercially important neutraceutical crop as it contains high level of amino acids like methionine, lysine tryptophan, vitamin B and proteins. The content of protein in seeds is almost similar to Soybean (Glycine max) which ranges from 21-28 % (Phatak et al., 1993). Inspite of this, Cajanus cajan is affected by various serious diseases and leads to heavy destruction. Pigeon peais bombarded by numerous bacteria, viruses, fungi but amongst them just a few of them cause a negative impact on the plant. The wilt caused by Fusarium udum, is the most destructive disease (Kannaiyan et al., 1984). Genus Fusurium account to the most significant group of ascomycetous fungi, whose members are liable for mormous economic loss due to depletion in yield, quality and quantity of pea (Nelson et al., 1983; Leslie and Summerell, 2006): Many members of Fusarium produces type A and B trichothecene mycotoxins that cause toxicosis

in humans and animals (Mali et al., 2015). Several Fanarium species cause catastrophic diseases on cereal grains (White, 1980; Parry et al., 1995; Nyvall et al., 1999; Goswanni and Kistler, 2004), some are responsible for vascular wilts or root rots on many important vegetable, ornamental and field crops (Kraft et al., 1981; Linderman, 1981) while cankers are produced by others on soft and hardwood trees (Bloomberg, 1981; Dwinell et al., 1981, 2001; Wingfield et al., 2008).

2. Material and Methods

Collection of material

Fifteen isolates of infected pigeon pea plants were collected from Kolhapur, Sangli districts of Maharashtra and Dharwad, Vijapura (Bijapur) and, Belgavi (Belgaum) districts of Karnataka. The infected plant materials were brought to the laboratory and were cut into small pieces. (0.5-1.0cm length) along the symptomatic region of stem. root, leaves and subsequently surface sterilized by sequential dipping in 70% ethanol for 30 s and in 0.1% HgCl₂ for 1 min., rinsed in sterilized distilled water, and then cultured on Crapek Dox agar (CDA)/ Potato dextrose agar (PDA) amended with 25 mg/L of streptomycin sulphate (Patil et al. 2012; Jadhav et al., 2010). Plates were incubated at 25± 2°C for 6 days. A Fusarium sp. was consistently isolated from infected timues, and was purified by single-spore culture (Mali et al., 2015). The plates were observed for fungal outgrowth through the symptomatic parts of plants. After 5-6 days of culture, white cottony fungal mass was observed. On the basis of visual



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Full Length Research Article

ISOLATION AND IDENTIFICATION OF PENICILLIUM SPP., FROM KRISHNA RIVER, DISTRICT- SANGLI

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ARTICLE INFO

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Key Words:

River Krishna, Soil Ecosystem, Penicillium Spp.

ABSTRACT

The mycoflora from the bed of river Krishna at Saugli was studied at three different locations viz., Right Bank, Center and Left Bank from January 2014 to December 2015. Twenty six soil samples were collected from surface, 10, 15, and 25 cm depth. The mycoflara were isolated by using soil dilation and soil plate method. Out of the 75 strains of fungi isolated 10 species of *Pentcillium viz.*, *Pentcillium faniculatum* (32.66) and *P. semitectum* (03.88%), *P. expension* (2.33%), *P. chystogenum* (16.33%), *P. Lilacinum* (09.63%), *P. notatum* (15.66%), *P. roseum* (1.62%), *P. northom* (2.67%), *P. citrinum* (09.66%) and *P. rahrum* (2.67%), were identified. Greater number of species were isolated on soil plate technique as compared to left bank and very low frequency were obtained from centre.

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INTRODUCTION

Soil is a very complex environment in which the biological activity is mostly influenced by microorganisms. There are number of beneficial effects of soil microbes which includes nitrogen fixation and organic matter decomposition to breakdown of metabolic by-products and agrochemical, enhancing the bioavailability of nitrates, sulphates, phosphates and essential metals (Bridge & Spooner, 2001). Mycoflora is an important constituent of the soil microbiota typically constituting more of the soil biomass as compared to bacteria, depending upon the soil depth and nutrient conditions (Ainsworth & Bisby, 1995). The role of fungi in the soil is much complex one and fundamental to the soil ecosystem. They perform ecological services that highly impact on the quality of human welfare and give enormous potential for providing economic henefits, e.g., the isolation and identification of the soil fungus Penicillium led to a large pharmaceutical industry of antibiotics (Diana, 1994). It is recorded that there are 1.5 million fungal species on earth and out of which only about 70,000 have been described up to now (Hawksworth and Rossman, 1997). The present investigation is an attempt to study the variability of mycoflora from different depths at three locations of river Krishna at Sangli.

*Corresponding author: Andoji, Yegesh.S., Department of Botany, P.D.V.P. College, Tasgaon. Apparently no report is available for fungi recorded from this site. This paper concentrates only on species of *Penicillium*.

Description of the research site: The study area is located at longitude 58.*21'E, latitude 21.*21'N. Air temperature ranges between 11°C to 44.7°C. There are significant variations in rainfall in the basin. The rainy months are from June to September end and the driest months are November to March end, during which the average monthly rainfall rarely exceeds 25 mm. The soil texture ranges from coarse to fine which is mostly favourable for irrigated agriculture. The pH value normally ranges from 7.5 to 8.30.

MATERIALS AND METHODS

The analysis of soil samples done in this study were collected from three different sites viz Left Bank, Right Bank and Center from the bod of river Krishna. Vertical samples were collected from surface, 10, 15 and 25cm depths with presterilized serew-cap vials. Vials: WETE dipped perpendicularly to the vertical surface of the water. Three samples were collected from each depth. The samples were kept in pre-sterilized polythylene bags surrounded by ice crystals until they brought to the laboratory. The samples were analysed by using the soil dilution plate (Waksman, 1922) and soil plate method (Warcup, 1950).



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Research Paper .

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Nonparametric Moving Average Control Charts Using Sign and Signed-Rank Statistics

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Abstruct- In this paper, we provide two nonparametric moving average control charts based on well-known nonparametric statistics namely sign and signed-rank statistic. These control charts are useful in detecting shifts in the median of the symmetric process distributions. Average run length of these control charts has been studied for various symmetric process distributions. These include the normal, double exponential and Cauchy distributions. Performance of the proposed nonparametric moving average control chart based on the sign statistic is compared with the monparametric sign chart and the Shewhart X-bar chart. Also, the performance of the proposed nonparametric control chart based on signed-rank statistic in compared with the Shewhart X-bar chart and the 2-of-2 control chart based on the signed-rank statistic. The study reveals that the proposed nonparametric moving average control chart based on sign statistic perform significantly better than the nonparametric sign chart and Shewhart X-bar chart. Also, the performance of the proposed nonparametric moving average control chart based on the signed-rank statistic perform significantly better than the Shewhart X-har chart and the 2-of-2 chart hased on the signed-rank statistics. The gain in the performance is substantial for heavy-tail distributions as compared to lighttail distribution. Robustness study against contamination by outliers for both the proposed charts show satisflactory performance. These churs can be used in practice, since they are simple to use and do not need any distributional assumptions,

Keywords-Nonparametric, Sign Statistic, Sign-Rank Statistic, Average Run Length.

I. INTRODUCTION

Control charts are useful tools for monitoring/controlling a manufacturing process. Nonparametric control charts are becoming important tools in the field of process control since their application does not require the assumption of any specific probability distribution for the underlying process. Nonparametric control charts are used for detecting the changes in the process modian (or mean) or changes in the process variability. The nonparametric control charts are used for monitoring the process median (or mean). These nonparametric control charts are based on the signs computed within samples and used in place of sample means in the Shewhart chart. The chart is labeled to be the nonparametric chart if in-control average run length (ARL) does not depend on the underlying process distribution. In case of charts based on signs, the ARL will be the same for all distributions for which median equal to

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the target value. In nonparametric control charts, the assumption of normality is not necessary for calculating the control limits. The nonparametric control charts are to be lets impacted by outliers. Some of these are based on sign and/or signed-rank statistics by assuming a known incontrol target value for process location.

In the literature review, Abid et al. presented an efficient nonparametric EWMA Wilcoxon signed-rank chart for monitoring location [1]. Amin and Searcy proposed a nonparametric EWMA control chart using the Wilcoxon signed-rank statistic [2]. Amin et al. proposed the control charts based on sign test statistic to monitor the process location and variability [3]. Bakir developed a distributionfree Shewhart control chart for munitoring process center based on the signed-ranks of grouped observations [4]. Bakir proposed the distribution-free quality control charts based on signed-rank-like statistics [5]. Bakir and Reynolds developed a nonparametric cumulative sum control chart

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A Nonparametric Control Chart for Process Variability Based on Quantiles

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ABSTRACT

Most of the control charts are based on assumption of normality. Control charts for non-normal process distributions have sitio been reported in literature. In absence of any knowledge about the process distribution, nonparametric chart is a good alternative. In the recent past number of nonparametric control charts have been statied. In the present work we propose a control chart for monitoring process variability, which is based on in-control quartiles. The chart is molvated from a nonparametric control chart based on in-control quartiles due to Anim et al. (1995). The proposed chart has been statied for its performance for various process distributions to monitor shange in variability and has been compared with the existing nonparametric and parametric charts. It has attractive out-of-control Average Run Langth performance and is very simple to usa. We illustrate the chart through an example and recommend use of this chart to monitor protect. Generalization of the chart will also be discussed in view to further improve its delection ability.

Key-wards: Nonparametric, control shart, quantiles, process variability and average run length. Mathematical Subject Classification: 62G86, 62P30

1. INTRODUCTION

In the course of process monitoring it is required to monitor variation in the process, in addition to monitor process location. It is likely that the location of the underlying process is not changed, but there is an increase in the process spread. In such situation quality characteristic will suffer and process output will have larger number of delectives. Thus quality of the production process will be hampered, in other words, the process capability will be decreased. Therefore it is required to monitor process spread over the time. In practice control charts based on sample range or sample variance are used to monitor process spread. These charts are based on some distributional assumption. The effects of nonnormality are more severe for control charts for variability than in case of control charts for location. One of the limitations of the existing parametric control chart to monitor process variation is that these charts require estimating process standard deviation. An atternative to the perametric chart is a

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Analysis of Herbal Product: A Case study of Patanjali Product

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ABSTRACT

A well-known yogs guru Baba Ramdev started an association Patanjali Ayurved in 2007. The main aim of the company is to bring awareness among Indian people towards swadcahi products. Also the profits cara by the company will be either plough back or profirs will be used for ancial wetfare. The firm, to increase its sales, also provides its products at discount. Patanjali is also said that it will be very beneficial for consumer to shift in their preferences towards herbal and Ayurveda products which are deemed to be healthy and also closure to nature. The Patanjali Products have rightly been placed at advantage by the very concept of Marketing through Spirituality. Considering the popularity of these products, in the present article researcher has analyzed the consumers these who are using these products by using different statistical tools. For this study a sample survey was conducted and information is collected from 200 respondents reaiding in Sangli City. The conclusions are drawn by using the statistical tests based on Normal and chi-square distribution.

Rey Wards:Patanjali, Product, Conzumer, Analysia.

I. Introduction:

We know, india is a hub of herbal. In ancient time the people was using only herbal in medicine and other daily use products. Herbal products are medicines and are used as supplement to improve health and well being, and used for other therapeutic purposes. Herbal products are available in the form of tablet, capaule, powder, extract, teas and so on. Herbal medicines are considered safe as it is natural, but in fact it can cause serious adverse effects and dealings with other drugs and supplements. Now-a-days, we have too many products made by a chemical which affects the health. Herbal is a natural product which is made by plants and which doesnt have any side effects. Basically Word Ayurveda has been formed by "ayus" means life and 'Veda' means knowledge. So we can say that Ayurveda is about to know more about life.

It is fact that, world is turning towards the: herbal products. So, in the present paper one of the herbal, Patanjali products, are analysed and studied. The aim of the present study is to know the factors affecting consumer behavior and also to know about the satisfaction level of consumers regarding Patanjali products.

Patanjali Ayurved was formed in January, 2006 as a private limited company by yoga guru Baba Ramdev and his partner Sri Acharya Ballerishnaji. In June, 2007, it was converted to a Public Ltd. Company. It is registered under the Companies Act, 1956 and has its registered office its Bijwasan, New Delhi

and three other offices in Haridwar. The company was started with the vision of uplifting the life of Indian farmers by locally sourcing the raw materials from them and making their lives better while at the same time provide an opportunity to the Indian masses to move towards healthy lifestyle by promoting Ayurveda and herbal products. Baba Ramdev started as a yoga trainer and was promoted by Aastha and Sanakaar channels on TV. Hence, Indiana realized that they have forgotten Indian tradition and art forms- one of them being yoga. He got wide acceptance and word of mouth publicity helped him to reach to a wider audience. He projected Yoga as a solution or remady for all difficulties or diseases. Patanjali Ayurved in its first year of operations, 2008, generated revenue of over 60 crores. Almost 10 years later, the homegrown venture has grown to be a 5000 crore company and is posing a threat to the well-established companies in the Past Moving Consumers goods domain.

Patanjali has a wide range of products with the theme of Ayurvedic/herbal being common across all categories, It has four business divisions: Food and Beverages, Cosmetics and Health, Health drinks and home care. The highest revenue grossing products are Patanjali Cow Ghee, Danit Kanti, Kesh Kanti, Patanjali Atta noodles and Patanjali Aloe Vera juice and gel. The customer base of Patanjali is very huge and day by day is going on increasing. A major ramp-up came when Patanjall was relaunched by Baba Ramdev in 2014. The company is finding it difficult to cater to the demand of all the customers, it has increased

. Steady-State Behavior of Nonparametric Synthetic Control Chart Using Signed-Rank Statistic

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Abstract

The article shalled the steady-state behaviour of the synthetic control chart using signed-rank statistic for shifts in the process median. The steady-state ATS (Average Time to Signal) values are computed using Markov chain approach. To compute steady-state ATS, the performance of the synthetic control chart and two-of-L+1 control chart can be made identical over all samples with head start features. When subgroup sample size n=10, the steady-state performance of the synthetic control chart is worth for small to moderate shifts under all considered symmetric distributions. When subgroup sample size n=5, steady-state ATS values are larger under normal and double exponential distributions only for small shifts. However, under the Cauchy distribution zero-state ATS values are larger but out significantly larger as compared to steadystate ATS values. Usefulness of proposed control chart explored using numerical example. Proposed rontrol chart is simple and easy to use for practitioners.

Keyword: Nonparametric, signed-rank, synthetic, runs rule, steady-state and average time to signal.

1. Introduction

A control chart is one of the most useful tools for monitoring quality of the characteristic of an interest in a manufacturing process. Most of the control charts are based on the assumption that the process characteristic follows a normal distribution. Many researchers have pointed out that all the processes are not normally distributed; see for example (Chou et al. 2001) and the references cited therein. The standard control charts do not perform well, if the assumption of normality is not satisfied. The effects of nonnormality on the \overline{X} chart have been studied in the literature and includes among others (Schilling and Nelson 1976, Bradley 1973). This demands the construction of nonparametric control charts. A chart is said to be nonparametric if the run length distribution of the chart does not depend on the underlying process distribution, when there is no shift in the process parameter under study. Hence, the in-control Average Time to Signal (ATS) of nonparametric control chart does not depend on the underlying process distribution.

In the review of literature related to the nonparametric control charts, (Bakir and Reynolds 1979) provided a control chart based on within group ranking. (Hackl and

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A Geographical Study Of Gaumukh Religious Tourist Center in Navapur (Mh), Songadh (Gj) Tabsil.

> Prof. Sunil Senna Gavit, Assistant Professor, Dept. of Geography, P.D.V. P. College, Targuon

Abstract :

Todays the most important and fast growing industry is nourism. Tourism Mean the largest sector of international trade, entring, foreign currency and income source. Some countries and states economy totally depends upon nourism, in India importance of religious tourism in uncient period as well as modern period. The diversity of physical, social, cultural, historical and also religious factors is main antractions of the tourist's centers. In India as well as Malaeashtra major scope for religious tourism because India has various background, history, magnificent culture and religious places as well as the Geographical condition is favorable for development of tourism. There are same problems face by tourist present study has view the real situation, condition, facilities and services related problems and its salution by the view of Geographical perspective.

Key Words: Tourism industry, mligious tourism, socio-cultural-historic aspecta.

Introduction:

Tapi district is one of the 33 districts of <u>Galaryi</u> state in western <u>India</u>. It has seven tabells tapi, <u>Sengradh</u>, <u>Niihat</u>, <u>Valod</u>, <u>Uchhal</u> <u>Dolevan</u> <u>Kukatmund</u>, vyaca city is the district bradquorters. Tapi district was formed in 2007 out of some Taball that were separated from <u>Satul</u> <u>district</u>. Tapi(Vyara) District shares <u>Parma</u> <u>Wildlife</u> <u>Sanctuary</u> with the Districts of <u>Dang</u> and <u>Namiluthar</u>, the latter of which is in <u>Maharashtra</u> Parma Wildlife sanctuary is a part of the <u>Dang's Forest</u>. Some of the important instit center in Tapi(vyara) District are: Songadh Fort, Gramskh Mahadev tempinand waterfall, Hindustan Bridge, Tapi River, and Ukai Dam. Songadh Fort, Other religious tourist destinations are: Rokatha Hansanan Mandir, Parsuranji and Saryatapeshwar Mandir, Kalyanniji Mandir, Gaurnakh 34km from suvaput, around 13 km from songadh, about 33km from vyara(tapi) about 51 km from dang(abwo) and near about 132km from Nasadathar</u>

This is the oldest temple of Gaumakh statudey. The place is surrounded by the forest. The atmosphere of this place is peaceful and pleasant. The temple is surrounded by forest.

Nandurbar district is rich socio-cultural establishmentand religious historical background. Also it is hounded by religious centers; such as <u>Enkasha</u>, one of the famous religious places, also known as Dakshin Kash, emples of God Shree <u>Ganesha</u> (Heramb), Shri <u>Data</u> temple, Umaj Mata temple, <u>Asherahbhama</u> and <u>Shanimanda</u>. Dasdapaseshwar Ganesh Mandir, Devi Mogra Mata is mother goddess of <u>Adivanis</u>. Devi Mogra Mata is mother goddess of <u>Adivanis</u>. <u>Torauma</u> Gournakha. The Gaamakh temple is situated near Don town in Nanapar Songadh(Gajarat) border tapi district. The Gaamakh temple is oldest temple of shiva. The temple is surrounded by forust. So it's quite famous in people. For tourist it's the best place for hangout. The Gajarat government declare this place as a tourist place few years ago. Some renovation work also done there. Gaunakha is the oldest temple of Gaunakh mahaley. The place is surrounded by the forust. The atmosphere of this place is praceful and pleasant. During month of shravans its beat time to visit any shiv temple.

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"A Geographical Study of Forest Settlement in Dhadgaon Tahsil" (Nandurbar District)

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Abstract:

The researcher article focuses at A Geographical Study of forest settlement in Dhadgaon (Akrani) Tehsil. Tribals are those people, who are living in forest. The Tribes are depending upon the resources obtained from forest. The geographical location of Dhadgaon particularly 73 forest villages' fails to provide proper educational facilities to running schools. The researcher has gone through forest settlement and surveyed of 10 villages of Dhadgaon tehsilat. A study region concern to the Satpura Mountain and Narmada River bank. Field observation of the study region. Relief is the chief constraint against the development the development of settlement.

The distribution of settlement is mainly governed by slope absolute relief, relative relief to understand the distributional pattern of forest settlements and their relationship with forest. The topsheet of the study area 1:50000 scale with contour interval 50 Meter have been consider.

Keywords: Akrani, forest villages, River bank, Relief, slope, Pattern.

Introduction:

Mountainous region is a residence of tribal people. That is why they are called 'Vanvasi', or 'Girijan'. The Settlement of tribal's of hilly region are scattered or dispersed. Their festivals are celebrated in the company of nature. During these festivals the musical instrument and the objects made by handicraft artists are used. These instrument materials available by surrounding environment. Lifestyle of tribal people changes according to differences of regions. But their is similarity in culture, customs and tradition. Primary occupation of tribal people is totally depend upon forest. They collect fruites, edible roots and flowers form forest. They also do the occupation like cattle raising and farming. They spend their all life in the accomplement of nature. The tribal people building material using the forest. They make various items from wood, soll and bamboo. By this they get some economical benefits. Standard of education of tribal's has been lessed. Mostly it is so in the forest villages. of hilly region. Forest villages are found in the thick forests of hilly region. That is why there is lack of educational facilities and means of transpiration. So they prefer the occupation depend on the forest. That is why many trees of forest are cut down. Satpura is a mountainous region in the Dhadgaon tahsil of Nandurbar district.

Their residency differs as per catchment area but their culture and tradition remains same. These people totally live on forest normally on different types of roots, fruits collection and hunting. Animal husbandry and farming are the major occupation of these people. Entire life they live in forest. They make different types of things by different types of wood. They sell these objects in the nearest market and get more economic output with it. The rating of education occurred lack of there tribal people mainly in forest area where the forest villages are located. The forest villages located in dence forest lack management,

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GOVERNMENTS STEPS FOR POVERTY ALLEVIATION IN INDIA

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Asat, Pro. Dept of Geography P.D.V.P. Mahavidyalaya, Taagaan Dist.-Sangli (M3) Asat, Pro. Dept of Economics Y. C. College, Pachwad Dist.-Satara (M3)

ABSTRACT

Alleviation of poverty remains a major challenge before the Government. While there has been a steady decline in rural poverty over the last two decades, there were 244 million rural poor in the country in 1993-94, as per the latest available estimates. Acceleration of economic growth, with a facus on sectors which are employment-intensive, facilitates the remaval of poverty in the lang run. However, this strategy needs to be complemented with a focus laid on provision of basic services for improving the quality of life of the people and direct State intervention is the focus laid on provision of basic services for improving the quality of life of the people and direct State intervention is the form of targeted anti-poverty programmes. While growth will continue to be the prime mover, anti-poverty programmes supplement the growth effort and protect the poor from destitution, sharp fluctuations in employment and incomes and social insecurity. The specifically designed anti-poverty programmes for generation of both self-employment and wage-employment in rural areas have been redesigned and restructured in 1999-2000 in order to enhance their efficacy/impart on the poor and improve their sustainability. These achieves along with Area Development Programmes, Rural Housing, Land Reforms and institutional mechanisms of delivery mentioned.

Keywords: - Alleviation, poverty, Acceleration, employment, social insecurity

Introduction

The poverty alleviation programmes in India can be categorized based on whether it is targeted for rural areas or urban areas. Most of the programmes are designed to target rural poverty as prevalence of poverty is high in rural areas. Also targeting poverty is challenging in rural areas due to various geographic and infrastructure limitations. The programmes can be mainly grouped into

- 1. Wage employment programmes
- 2. Self-employment programmes
- 3. Food security programmes
- 4. Social security programmes
- 5. Urban poverty alleviation programmes.

The five year plans immediately after independence tried to focus on poverty alleviation through sectoral programmes. The first five-year plan focused on agricultural production as a way of addressing poverty while second and third plans focused on massive state led investments for employment generation in public sector. While these policies did some policy generation, they did not have enough strength to have a sweeping effect.

Objectives -

14

- To understand the poverty alleviation programme of government.
- To know the present scenario of poverty alleviation programme.

Methodology -

The present research paper is informative the required information collected through various secondary sources.

Jawahar Gram Samridhi Yojana

Jawahar Gram Samridhi Yojanai, JGSY) atreamlined the restructured, and comprehensive version of the Jawahar Rorgar Yojana (JRY). It was started on 1 April 1999. The main aim of this programme was development of rural areas. Infrastructure like roads to connect the village to different areas, which made the village more accessible and also other social, educational (schools) and infrastructure like hospitals. Its secondary objective was to give out austained wage employment. This was only given to BPL (below the poverty line) families and fund was to be spent for individual beneficiary schemes for SCs and STs and 3% for the establishment of barrier free infrastructure for the disabled people. The village panchayats were one of the main governing bodies of this programme. Rs. 1841.80 crore was used and they had a target of 8.57 lakh works. 5.07 lakh works were completed during 1999-2000.

National old age pension Scheme

This scheme came into effect on 15 August 1995. The scheme provides pension to old people who were above the age of 65 (now 60) who could not find for themselves and did

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ENVIRONMENTAL SUSTAINABILITY AND ITS IMPORTANCE

Arjun Wagh

Assistant Professor Dept of Geography P. D. V. P. Mahavidyalaya, Tangann. Dist.-Bangli (M2)

ABSTRACT

Sustainability is a bruad discipline, giving students and graduates insights into most aspects of the human world from business to environment and the social sciences. The core skills with which a graduates leaves college or university are highly sought after, especially in a modern world looking to drastically reduce carbon emissions and discover and develop the technologies of the future. Bustainshillty draws on pulitics, economics and, philosophy and other social sciences as well as the hard sciences. Sustainability skills and environmental awareness is a priority in many corporate jobs at graduate level and over as husinesses seek to achieve to new legislation.

Keywords- Bustainubility, technology, environment, awareness

Introduction

Sustainability graduates will go into many fields but most commonly civic planning, environmental consultancy, agriculture, not for profit, corporate strategies, health assessment and planning, and even into law and decision making. Entry-level jobs are growing and over the coming years, bachelor's graduates can expect more and more options and opportunities.

Sustainability is one the newest degree subjects that attempts to bridge social science with civic engineering and environmental science with the technology of the future. When we hear the word "sustainability" we tend to think of renewable fuel sources, reducing carbon emissions, protecting environments and a way of keeping the delicate ecosystems of our planet in balance. In short, sustainability looks to protect our natural environment, human and ecological health, while driving innovation and not compromising our way of life. Because of this growing requirement, a master's will not necessarily be required for most jobs as bachelor's programs prepare people for a career in mantainability. Read more about the various sustainability degrees and education. Objectives

- 1. To know the concept Environmental Sustainability
- 2. To understand the importance of Environmental Sustainability

Methodology

present research paper is The informative the required information collected through various secondary sources

What is Sustainability?

The definition of "sustainability" is the study of how natural systems function, remain diverse and produce everything it needs for the ecology to remain in balance. It also acknowledges that human civilization takes resources to sustain our modern way of life. There are countless examples throughout human history where a civilization has damaged its own environment and seriously affected its own survival chances. Sustainability takes into account how we might live in harmony with the natural world around us, protecting it from damage and destruction.

We now live in a modern, consumerist and largely urban existence throughout the developed world and we consume a lot of natural resources every day. In our urban centres, we consume more power than those who live in rural settings and urban centres use a lot more power than average, keeping our streets and civic buildings lit, to power our appliances, our heating and other public and household power requirements. That's not to say that sustainable living should only focus on people who live in urban centres though, there are improvements to be made everywhere - it is estimated that we use about 40% more resources every year than we can put back and that needs to change . Sustainability and sustainable development focuses on balancing that fine line between

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|--------------------------------|------------------|----------|------------|----------------|--|--|
| Vol - V | Issue-II | FEBRUARY | 2018 | ISSN 2349-638x | Impact Factor 4:574 | |
| \bigcap | | An Impac | ts of Tour | ism in India | | |
| Dr. Arjun Assistant P | Wagh rofessor | | | | Ms. Rani Shinde Assistant Professor | |
| P.D.V.P. Mahavidvalava.Taseaon | | | | D | epartment of Economics | |

Abstract:

The present study makes an attempt to highlight the development of Tourism and initiatives taken by Government to promote Tourism in India and its impact. The main theme of paper is to analyze positive and negative impacts of Tourism Industry on the Economy, Tourism Industry in India is growing and it has vant potential for generating employment and earning large amount of foreign exchange besides giving a fillip to the country's overall economic and social development. Data were collected through the websites and various research articles. The study implies to the depth of social, economical and environmental effects of the tourism industry Most of the works that are focused on tourism industry in India.

Keywords: Foreign exchange, Tourism Industry, Development, Impact of Tourism, Constrains

Objectives

The following objectives are considered to highlight the theme

1. To know the tourism

2. To understand the Positive and Negative impact concern with various aspect

Data Collection and Methodology

Present research article is informative. The required information is collected through secondary sources of information

Introduction

Tourism becomes the fastest growing service industry in the country with great potentials for its further expansion and diversification. Tourism is defined as the business of providing services for people who are travelling for their holiday. It is also defined as travel for recreational, leisure or business purposes. The statistical terms defined tourism as the activities of persons travelling to and staying in places outside their usual environment for not more than one consecutive year for leisure, business and other purposes not related to the exercise of an activity remunerated from within the place visited. Over the decades, tourism has experienced continued growth. Tourism Industries is one of the fastest growing economic sectors in the world. Tourism has become a thriving global industry with the power to shape developing countries in both positive and negative ways. No doubt it has become the fourth largest industry in the global economy. Similarly, in developing countries like India tourism has become one of the major sectors of the economy, contributing to a large proportion of the National Income and generating huge employment opportunities.

Development of Tourism

The development of tourism was taken up in a planned manner in 1956 coinciding with the Second Five Year Plan. The approach has evolved from isolated planning of single unit facilities in the Second and Third Five Year Plans. The Sixth Plan marked the beginning of a new era when tourism began to be considered a major instrument for social integration and economic development. But it was only after the 80's that tourism activity gained momentum. The Government took several significant steps. A National Policy on tourism was announced in 1982. In 1988, the National Committee on Tourism formulated a comprehensive plan for achieving a sustainable growth in

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 October. 2018

A Study of Indian Society and Changes in Social Institution

¹Mr. Sainath R. Ghogare, Assistant Professor, Dept. of Sociology, P.D.V.P. College Tasgaon ²Mr. Amit M. Mali, Research Student, Shivaji University, Kolhapur.

Introduction:

The first step in the expansion of western culture and modernization in India began, when East India Company established its rule in the beginning of the eighteenth century and later on the British rule was established in the country by the middle of the eighteenth century. India is a hierarchical civilization. Whether in north India or south India, Hindu or Muslim, urban or village, nearly all things, people, and social groups are ranked according to various necessary behaviors. Societal hierarchy is manifest in caste groups, amongst individuals, and in family and similarity groups.

In its basic sense, social change means change in social structure (Johnson) Social change occupies a dominant place in the consciousness of humanity. Change is the basic nature of society and change is universal. "Social change may be defined as the process which is discernible in the alteration of the structure and functioning of a particular social system". (Kuppuswamy, B.1979). Social patterns, social interaction within a social organization. Social changes and variations from the accepted modes of life, whether due to geographical conditions, in cultural equipment, composition of the population or ideologies and whether brought about by diffusions or inventions within the group. (Gillin&Gillin 1950.). The nature and pace of social change are not consistent in each age or period in the same society. There is no natural law in social change according to which it assumes definite forms. It is difficult to make any prediction about the exact forms of social change. An institution is an organized system of social relationship which embodies certain common values and procedures and meets certain basic needs of society (Horton and Hunt). The present research study focuses on changes in particular social institution like education, family and marriage etc.

Objectives:

1. To study changes in education, family and marriage of Indian society

Data Base and Methodology

The database has been arranged for the study from various sources. They include Governmental reports and records Newspaper, Magazine and other unpublished reports are the main source of the present study. The present work is fully theoretical manner and based on secondary data. The collected materials are fully studied and evaluate.

Society is the web of social relationship (Machlver and Page.) Indian society is very old, intricate and plural and it has a long history. It is composed of different religious groups, racial groups and groups having cultural differences. In the long span of Indian history various groups from" different parts of the world entered into India with their own socio-cultural and racial features. The best example is Indus valley civilization

Changes in the Institution of Education:

India has stand 34th rank in quality education (world Economic forum) Education is a subsystem of the society. It is related to other sub-systems. Various institutions or sub-systems are a 5

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October, 2013

कवठेएकंव गावातील वरारा : संस्कृती जानि परंपरा

वियोददुमार कुंगार, सहाय्यक प्राप्त्वापक, समाजशास्त्र विजाग, पी.बी.प्ही.पी.महाविध्यालय, तासगाग vinodkumarkumbhar969 email.com Mab no - 9975564622

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मारतामध्ये प्रत्येक सण विशिष्ट पद्धतीने साजरा केला जातो. तसेच सर्व सर्णांना काही धौराणिक आधार असतेले दिसून येवात. यामध्ये विजयादश्वमी किंवा दसरा सणाला विशेष महत्व बाहे. भारतामध्ये प्रत्येक ठिकाणी विजयादशमी विविध पद्धतीने साजरी केली जाते. महाराष्ट्रातील कवठेएकंद (तालुका- तासगाव,जि -सांगली) या गावामध्ये विजयादशमीच्या रात्री शोभेची वातिपवाजी केली जाते. ग्रामदेवत थी.सिद्धराज देवस्वानाची पालधीसभोर रात्रमर शोभेच्या जातिपवानीचा कार्यक्रम होत वसतो. यापेळी वाशिपवाली पाहण्यासाठी संपूर्ण देशमरातून भाविक येव असतात. महाराष्ट्रातील शिवकाशी म्हणून कवठेएकंद मावाचि ओळख आहे. दसऱ्या दिवभी सुमारे दोनशेडून अधिक मंडळ या शोमेच्या वाविषयाजीमध्ये सहमाग पेवात आणि ग्रामदैवतेच्या पालची समोर राजभर अधिपवाजी करतात. महाराष्ट्रातील सांगली जिल्ह्यातील कवठेएकंद हे गाव सांगली पासून वागीन किलोमीटर बंतरावर उत्तरेला आणि सायगाव पासून सहा किलोमीटर दक्षिणेला आहे. प्राचीन काळापासून या गावामध्ये दसऱ्यादिवशी सोधेची अतिपयाजी केती जाते क्यठेएकंदला महाराष्ट्राचे म्हैयूर म्हणूनही जोळखलं जात.

वरिष्टे :

कवठे एकंद गावातील दसरा संयाच्या हातिप्रेयावीमें हवहुत आभ्यासणे.

संगोधन पद्धती :

प्रस्तुत संगोधनासाठी संशोधकाने वर्णनात्मक संशोधन पद्धतीचा अवलंब केलेला आहे. गावातील दगरा सण साजरा करण्याची परंपरा जाणून मेच्यासाठी तसेच अतिपवाजीचे स्वरूप समजून मेण्यासाठी अतिपवाजी करण्याऱ्या मंडळाकडून माहिती पेण्यात आली. ग्रसेष दसऱ्या दिवशी आतिपवाजीचे प्रत्यक्ष निरीक्षण करण्यात माते.

ऐतिहासिक पार्श्वमगी :

कवठे एकंद गावातील ग्रामदेवत थी.सिद्धराज मंदिर हे सुमारे १२५० वर्षांपूर्वी वसल्वचे पुरावे पद्मपुरान केदारविजय या ग्रंथानध्ये आढळते. पूर्वी या सिद्धराज मंदिरामीवती दंडकारण्य होते. राषीचे वेळी श्रींच्या पालखीच्या मार्गावर जंगलातील प्राण्यांचा द्योका होता. वत्ता प्राण्यांना हुसकून लावण्यासाठी लागि. संरक्षणासाठी मशाली, दिवट्या तसेच आवाज आणि प्रकास निर्माण करणारी आविषवाजीचि सुरवात झाली. ग्रामदैवत सिद्धराज देवस्यान म्हणजेच कपिलमुनीचे समाधी स्पळ मानले जाते. या समाधी स्थळावर महादेवाची चिंड आहे. विजयादरामीच्या दिवशी थी.सिद्धराज महाराज व्यपस्या बहीनीची भेट मेण्यासाठी निघतात.

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वस्तू आणि सेवाकर (जी.एस टी) : एक मुल्यमापन

प्रा.जे.ए.यादव,

संस्थांगी प्राप्ययक अर्थवतास्य विभाग, यो.डो.की.यी. महाविद्यालय, लासगांध

प्रस्तावनाः :-

करप्रणाली सुधारण्याच्या दृष्टीकोनातून हे बील फारच महल्याचे आते. २००६-०७ प्र्या अंदानपत्रकात कॉटोराध्या राजवटीत प्रयम जी.एस.टी. चा उल्लेख केला गेला होता. जी.एस.टी हा एक अप्रत्यक्ष कराचा एक प्रकार आहे. ता कर पुड्सचे उत्पादन, विज्ञी, आवल अणि सेवा या सर्वावरील राष्ट्रीय पालळीवरील सर्वसम्पावेशक अप्रत्यक्ष कर असेल. निर्धाल-आयात कर आणि कार्यरेट टेक्स वा कराच्या कवोत बाहेर जातेत. केंद्र सरकार आणि राज्य सरकार जे निर्रानराठे अप्रत्यक्ष बर लावतात त्या सर्व करांची जाना जी.एस.टी प्रेणार जाहे. सच्या बेंट एक्साईन, आणि सर्विस टेक्स असे तीन कर लावण्याएंवजी एकच जी.एस.टी हा कर लावला जाईल.

GST (वस्तू आणि सेवाकर) म्हणजे काद?

GST साणने यस्तू य सेवा कर असून तो वस्तू किया सेवांवर हा एकच कर लागू असेल (फेंद्र सरकार व राज्य सरकार) उक्क हा एक गंताय स्थान आधारीत वस्तू आणि सेवा यांच्या उपभोणापर्यंत कर आहे. यामध्ये निमिती/उत्पादनायसून ते अतिम उपभोणापर्यंत प्रत्येक टप्प्यायर कर आकारणी करण्याचे प्रस्तांवत केले आहे. सारांत असा को केवजा वर्धित मूल्यायर कर आकारला जाईल आणि अतिम उपभोगक्ता/प्राहकाला कर सावे लागणार. GST (वस्तू व सेवाकर) हा एक अप्रत्यक्त कराचाच एक प्रकार असे. हा कर पालाचे उत्पादन, विजरे, आयात आणि सेवा चा सर्ववरील राष्ट्रीय पातजीवरील सर्वसमावेशक अप्रत्यक्त कर असेल. केंद्र सरकार आणि राज्य सरकार जे निरनिराजे अग्रत्यक्त कर लावतात या सर्व करांची जागा GST प्रेगार आहे.

सम्म VAT (Value Added Tax) मूल्पयपित कर

February 2018 Special Issue

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उत्पादन शुल्क, सेवा कर असे छीन कर लावण्याएंवजी एकच क्रड हा कर लावला जाईल.

अभ्यासाची उद्दिष्टेय

१. वस्तू आणि सेवा कर या संज्लपनेचा अभ्यास वरणे.

२. विविध क्षेत्रातील पंगण्या ज्यांना जो.एस.टी. मुळे परावश होणा-या अभ्यास व्हणे

संशोधन पष्टती आणि तथ्य संक लन

प्रस्तुत शोधनिर्वय तथार अण्यासाळे दुव्यम सामाग्रीचा वापर वरण्यात अग्रला आहे. यामध्ये प्रामुख्याने संदर्भग्रंव,वर्तमान पत्रे,मासिकेइंटरनेट इत्यादीचा वापर करण्यात आला आहे. जी.एस.टी.चे फायदे :-

र) कर भरणे सोपे जाईल कर भरण्याच्या, आकारण्याच्या पच्चतीत सहनता आणि सुलभता चेईल.

२) देखचे ग्रेस डोनेस्टिक ग्रीहक्ट वाहेल. प्रगतीचा देश वाहेल.

३) संपूर्ण देशात सामान खरेवी करण्यासाठी एकच कर आणि एकाच दराने कर द्याथा लागेल. पूर्ण देशात एकाच किंमसीला एक प्रकारचे सामान खरेदी करता चेईल.

४) येगवेगळ्या प्रकटरचे कर भरण्यापासून सुटका होईल.

५) टॅक्स या रचनेत पारदर्शकता बेईल. राज्यांच विळगाऱ्य कंट, करमणूक कर, लक्झरी कर, एन्ट्री कर लोटरी कर, आणि राज्य जाकारीत असलेला विक्री कर बंद होतील. सामान खरेपी करताना किंव्य कोणल्यारी संवेच्या आस्थाद घेताना एकुण सर्वकर मिळून ३० टक्के ते ३५ टक्के कर द्यावा लागतो तो २० ते २५ टक्के इतका द्यावा लागेल.

६) त्याकंडवे धारताच्या इपतीचा या १ ते १.५ ठकरेने व्यवेश.

७) जी.एस.टी. कर वस्तू आणि सेव व केतेंवर लावल जाइंत.

८) पुरुम अणि सेवा ज्या चेडेला एकत्र पुरवल्या जातात त्यासांती आता एकच जी.एस.टी. लावला जाईत.

९) जी.एस.टी. उन्हार्गत विविध प्रकारच्या गुद्रसचे वर्गीकरण सोपे आणि साचे केले आहे. त्यामुळे कर लावण्यासाठी कोणल्याही गुद्रसचे वनीकरण वारग्रस्त ठरणार नाही.

to) रिटेल सेक्टर याठी लिज रेंटल आणि इन्व्हेंटरी खर्च कमी होईल.

(१) घरलेल्या जी.एस.टी. साठी सफलाय चेन मधील घटकांना क्रेडीट देणे सोपे होईल.

१२) जी.एस.टी. मुळे असंघटीत कोणत्याही कराच्या जाळ्यात पेईल. त्यामुळे सरकारचे उत्पन्न खाढेल आणि संघटीत आणि असंघटीत क्षेत्रातील वरी कमी होईल संघटीत क्षेत्राला जास्त

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गा.क.एस.पाटील

चिभाग प्रमुख

अर्थशास्त्र विभाग

यी ही की यो मार्वविद्यालय, तासगांव

१५. कर वायपण्यासाठी कंपन्या आपले उत्पादन राज्यातल्य राज्यातच विकल असल. राज्याब्झेर विकल्यास केंद्रीय विक्रीकर य प्रवेश कर लागत जसे. कारण जसे कर उत्पादनाच्या धेळेस लावले जात माहीत. चांगली उत्पादने भी देशाच्या एका भागात मिळतात ती जी.एस.टी. आणि भारतीय शेतकरी देशीत सर्वत्र मिळावला लागतील. त्यामुळे प्राप्तवोना निवड करावला

भास्त याथ मिळेल. तसेच कंपन्थाचे माकेंटही सर्थ देशभर बाढेल. १६. विविध राज्ये एकाच वस्तुवर वेगवेगळया दराने कर लावत असे, त्वामुळे एकाच वस्तुधी बेगवेगळवा राज्यांत वेगवेगळी किंमत असे, साल लगे होणार राही , सर्व राज्यांत एकस विमात राहीन.

१७. व्यापारी य उद्योगधंधार हिझेब ठेवणे सोपे होईल कारण अनेक कर कायद्वांपैको एकथ कर कायथा लागू राहणार आहे.

tc. GST व्यवस्या एकाच सर्वसमापेशक महिती तंत्रवान व्यवस्वेधर आचारीत आहे त्यामुळे कापालन सोंघे व पारदर्शक होईल. निषक्षे : -

GST म्हणजे वाल्क्ष्या आणि सेवेच्या पुरवठणावर मान्य मर्थित कर सावण्याची पथल आहे. १९७६ मध्ये केंद्रीय अवकारी कनाला तर २००५ मध्ये राज्य विक्री कराला फॉट लाग करण्यात आला. आता क्षेट प्रणाली बहुतेक अग्रत्यक्ष कर्माना लागू करून GST हा एकच कर सुरू केला आहे. या पचती मध्ये मालाच्या उत्पादन पासन शेवटच्या विकेत्यापर्यंत होणाञ्या पुरवठपांच्या मूल्यवर्थनावर कर लायण्यात येतो. त्याचप्रमाणे सेवेच्या किमतीवर कर उडकारणी होते. या प्रक्रियेत कर लावताना वस्तु व सेवा प्राप्त करतांना भरलेल्या कराची पूर्ण वजाधट देण्यात बेते. म्हणजेच GST हा बह बिंद कर असल्याने कराचा सर्वधार ग्राहकांधर पडणार नाही.

बोडक्यत. करप्रणाली सुधारण्याच्या दण्टीकोनातन वस्त य सेवा कर हा फार महत्वाचा आहे. GST हा वस्तूचे उत्पादन, विको, आयात तसेच सेवा यासयोवसेल राष्ट्रीय पातळीवरील सर्वसमावेशक अग्रत्यक्ष बार आहे. येन्द्र सरकार व राज्य मारकार जे निरनिराजे अग्रायक्ष कर लावलात त्या सर्व करतिवनी GST हा एकव कर जहों. उंदा. सेवा कर, उत्पादन शुल्क, खेंट तीन कर लावण्यावेवनी एकता GST हा कर लावला जाईल. १९४७ मंतरचे सर्वत महत्वाचे करमुधारणा विधेवक संगृत वस्तु व सेवा कर विधेवकरचे महत्व आहे.

संदर्भमधी : -

१. यस्तु व सेवा कर - एक दृष्टीक्षेप, वित्त विभाग, महाराष्ट्र शासन. २. सुवीर हालाखंडी, वस्तु व सेवा कर (डिन्ही) vol-१, E-BOOK राजस्थान,

3. Sailesh Bhandari, GST Preparation & Transition, Sailesh Bhandari & Associates, Chennai, sept 3055. ४. देसले किरण , दिप्रसांध अर्थशास्त्र, २०१७.

प्रस्तावन्तः :-

केंद्र सरकारने १ जुले रोजी संपूर्ण देशात एक करप्रणाली जस्तित्वाल आणून वस्तू व सेवा कर अर्थात गृहस झेन्द्र सर्विस टेक्स किया जो.एस.टी.लागू केला. पायर अनेक तक्षांची मतमतांतरे आहेत. केंद्राने ५ टक्के पासून ते २८ टक्के पर्वत उत्पर्वदत मालावर जी.एस.टो. लागू केला आहे. जो.एस.टी. करांधी विधाणणी (शुव्य टक्क्यायासून) याच प्रकारांत करण्यात आसी असन करमका वस्तु सेवांपुडल्वा पहिल्वा प्रकारातील सेवांना ५ टक्के दुसऱ्या प्रकारातील संयांना १२ टक्के तिसऱ्या प्रकारातील संयांना १८ टक्के तर चोच्या प्रकारातील संयांना चेट २८ टक्के कर लावण्यात आला आहे. अजुनही अनेक लोक वाधर संघ्रमात आहेत. मुवात शेतीवर कोणताडी कर लावलेला पाही. असा सरकारचा दावा आहे. तो साहनिकच आहे. कारण वर्षानुवर्च देसातील शेतकरी लोटवाची शेलीच करत आले आहेत. त्याला सरकारी धारण जवाबदार आहे. देशात आजवर तौन लाखांहन अधिक शेतकऱ्यांनी आत्महत्या केल्या आहेत. भारताची ६२ टक्के लोकमंग्रज ही झेतीवर अवलंबन आहे. हा व्यवसाय सकल देशांतगंत उत्पादनांच्या (जीडीपी) समारे एक पंचमांश योगवान होते. आणि एकुण निर्यात उत्प्रमात सुमारे १० टक्के भागवतो आणि मोठ्या प्रमाणात उद्योगांना करवामाल पुर्ववतो. ग्रामीण भागातील अर्थव्यवस्था ही प्रामुख्यने श्रेतीवर अवसंयून आहे.

GST (वस्तु आणि सेवाकर) म्हणजे काव?

ब्रस्ड म्हणने वस्तु व सेवा कर असून तो वस्तु किंवा संजायर हा एकच कर लागु असेल (बेंद्र सरकार व राज्य सरकार) ज़ब्ह हा एक गंतव्य स्थान आधारीत वस्तु आणि संवा पांच्या वपर्धगावरील कर आहे. पामल्पे निमिती/उत्पादनापासून ते आंतिम उपयोगापर्यंत प्रत्येक टण्यापर कर आकारणी करण्याचे प्रस्तावित

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वस्तू आणि सेवा कर आणि स्थानिक सरकारे

> ही. बंदू जयसिंग क दम सहाय्यक प्रध्यपक , अर्थन्हास्त्र विभाग, पी.डी.की.पी.महाविद्यालय, लासगांव

प्रस्तायनाः :-

भारतात १ जुलै २०१७ प्रासून वस्तू व सेवा कर लागू झाल्यमुळे देशाच्या इतिहासात वस्तू प संया कर हो प्रणाली अंतरीकारी पाठल म्हणून ओळखाती जाल आहे. पॉण्य कर घोशणे ही कोणत्याही देण्याच्या मन्त्रबुत प्रशासन आणि शात विकासार्थ निदेशंक मानली जातात. याखडी अगदी इतिहासात नाव येताले जाते. यस्तू व संव्य करमण्ये भव्या कर पंत्रणेत ही स्थिती थदलणार आहे. लंपूर्ण देशभरात आता कोणत्याही पस्तू अच्छा संवेसाडी एकदाय कर भरावा लागेत. इस्टिनेशन टेक्स असे नांव देण्यात आलेल्या वस्तू व संवा करामुळे आता करण्यात्री पस्तू अच्छा संवेसाडी एकदाय कर भरावा लागेत. इस्टिनेशन टेक्स असे नांव देण्यात आलेल्या वस्तू य संवा करामुळे आता वस्तू अच्चा सेवा जिवे पुरवली जाणार आहे. आहाथ ठिकाणी कर आकररता जाईल. त्यामुळे सामान्य नाणरीकांसाडी नवी कर लाभदायक ठरनार आहे. या करपंत्रणेची रचना पारदर्शक असल्यामुळे सरकारला त्यावर देखरेख ठेवणे ही सुलघ होणार आहे.

कर हे सार्यजनिक महसुलाचे एक महत्वाचे आणि खातीचे साधन आहे. कारण एकुल सार्वजनिक उत्पावनातील करांचा हिस्सा अधिक असतो. त्या बरोबरच करांचे स्वरूप जसे कि प्रत्वस आणि अप्रत्यक्ष चांचाही परिणाम अर्थव्यवरुदेच्या अधिक विकासावरोवरच लोकांच्या जीवनमानवर ज्यांण सामाजिक करन्याणावर ही होत असतो. स्वामजेच चारतात स्वातंग्वोत्तर काळात अनेक कर विकायक सुधारणा करण्यात ज्यान्या. आणि त्यांची गती आणि त्यांची व्याप्ती १९९१ नंतर बेगाने वावत झांहे. वेंद्र सरकारने १ जूले २०१७ पासून वस्तू ऑण सेवा कर लागू केला आहे. हि खूप महत्त्वाची किंवहुना करंतीकारक कर सुधारणा आहे. तो केंद्र आणि राज्य पातळीचर पालनाव राज्यको ज्यापर आहे. तो केंद्र आणि राज्य पातळीचर February 2018 Special Issue

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उत्पन्नायर आणि स्थानिक सरकारांच्या विसीय स्थायशेवर काय होईल ते पाठणे आवश्यक आहे.

अभ्यासाधी उद्दिष्टेव

१. वस्तू आणि सेवा कर या संक्ल्पनेचा अभ्यास वरणे.

२. वस्तू आणि सेवा करामध्ये अंतर्षृत कराचा जम्पास वरणे.

३. यस्तू आणि सेवा कराबहल घटनायकाचा जभ्यास वरणे.

४. पस्तू आणि सेवा कराचा सरकारच्या उत्पनावर आणि स्थानिक सरकारच्या वित्तीय स्वायत्तेवर होणा-या परिणामंचा अभ्यास करणे. संझोधन पछती आणि तथ्य संक लन

प्रस्तुत सोधनियंध तथार वरण्यासाठे दुव्यम सामाग्रीचा वापर परण्यात आला आहे. यामध्ये प्रामुष्टवाने संदर्भग्रंथ,वर्तमान पत्रे,मासिकेइंटरनेट इत्यादीचा वापर वरण्यात आला आहे.

GST (वस्तू आणि संवाकर) म्हणजे काय?

GST माणजे यस्तू व सेथा कर असून तो यस्तू किया संयोधर हा एकच कर लागू असेल (केंद्र सरकार व राज्य सरकार) अष्ठ हा एक गंतव्य स्थान आधारीत वस्तू आणि सेवा यांच्या उपपोगावरील कर आहे. यामध्ये निर्मितो/उत्पादनापासून ते अतिम उपपोगापर्यंत प्रत्येक टण्यावर कर आकारणी करण्याचे प्रस्ताचित कर्मों आहे. सारांश असा को केवळ वर्षित मूल्यावर कर आकारला नाईल आणि अतिम उपपोगक्ता/प्राहकाला कर ग्रावे लागणार. GST (यस्तू व सेवाकर) हा एक अप्रत्यक्ष कराचाच एक प्रवार असे. हा कर मालाचे उत्पादन, विक्रों, आयात आणि संचा या सर्वोकरील राष्ट्रीय पातळीवरील सर्वसमावेशक जप्रत्यक्ष कर उसले. केंद्र सरकार आणि राज्य सरकार जे निरनिराळे अप्रत्यक्ष कर लावतात या सर्थ करांची जागा जब्द घेणार आहे.

सध्य VAT (Value Added Tax) मूल्यवॉपत फर उत्पादन शुल्क, सेवा कर जसे तीन कर लाजण्याऐवजी एकप अड हा कर लायला जाइंल.

(वस्तू आणि संवाकर)कार्यान्वित :-

केंद्र शासन व राज्य शासन डारे सामाईक करदात्यांका एकाच वेळी यंगारा ड्रोरी ज्ञाह असेल.

केंद्र शासनादारे आंतरराज्य वस्तू/माल पुरचटा आणि संयापूर्ती वर आफारण्यात वेणाऱ्या GST ला केंद्रोथ GST(CGST) जसे संयोधित केले जाईल.

राज्य शासनाहारे आकारण्यात येणाऱ्या GST ला असे GST(SGST) संबोधित केले नाईल.

कलेकिसक कर सुधारणा अग्रहे. ती केंद्र आणि राज्य पालळोधर तसेच केंद्र शासन्वद्वारे प्रायंक आंतर राज्य वस्तू पुरवता एकदाध रायपली जाणार आहे. या कराचा परिणाम सरकारच्या आणि सेवापूर्ती व एकालिक (IGST-Integrated GST) कर Printing Area : Interdisciplinary Multilingual Refereed Journal of the approximate

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अभिवाधनः पूर्वतयारी व तत्त्वे

बी. तातोचा बधाने,

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पद्यभूषण दी बसंतरावदादा पारील महाविद्यालय, तासगाव, वि सांगली, शिवाजी विद्यापीठ, कोल्हापूर

मानवाचा विचार करणारा मेटू हा मुझौतोल इतर प्राणीधात्राणसूत्र मानवाला तेणवा ठरविनारा घटक आहे. अष्टोप्रहर मनुष्य विचार करत असतो. विचार मनुष्याचे व्यक्तिमाण पढणीत असरात चांगले विचार मनुष्याच्याप्रगतीचे कारण दरतात, तर बाईट विचार त्यास अधोगतीम नेतात, मनात चांगले विचार प्राचेत याराठी वाचनरदेगेल हु स्ता पर्याय वाडी. उत्त्योतन प्रेयाचे माचन वाचकाचे व्यक्तियत्व समुद्ध कातेय तथापि त्याची घाषाठी समुद्ध काते. विशेषत प्राचा विषयाच्या विच्याच्यांनी वाचनाची स्वय लावून येतात्वास स्थास केवळ बाचनाचेल नाही तर अधिवाधनाचे कौत्राल्वडी विषयाच्या विच्याच्यांनी वाचनाची स्वय लावून येतात्वास स्थास केवळ बाचनाचेल नाही तर अधिवाधनाचे कौत्राल्वडी विकसित प्राता वेऊ सडेल.

अधिवाचन म्हणजे काय?

वक्तवावे लेखक अधवा कवीने लिहिलेला मनकूर समनून खेठन उच्चाराच्या स्पष्टतेसह राज्यतील आग्रेह -अयरिह हसेव घड उतार साधावत ध्वनीमाधुर्थाने केलेले प्रभावी प्रकट वाचन म्हचने अधिवाचन साचन वा सामान्य राज्यास 'अधि' हा वपसर्ग लागूव अधिवाचन हा शब्द तयार झाला अमून, त्याचा सरळ आर्य प्रवट थाधन असा होतो. वसर्याचे अधिवाचन हे झोरवांचे लग्न बेमून येग असते विविध कला व माध्यमे, सघा - स्प्रारंध ससेथ देनंदिन जीवन बगतान विविध प्रसंगी व्यक्तीस अधिवाचनाया उपयोग होत असतो. अधिवाचन सी एक कला असली, तरी ते प्रयत्व साध्य कौशल्यही आहे. अधिवाचनामाती व्यक्तीने कोणती पूर्वत्यासी बन्द्रों आवश्यक आहे याचा विचार करने गरवेचे आहे.

ञ. अभिवाचनाची पूर्वतयारी

भाषेच्या विधार्थाने अभिवाधर हे कोगल्य अंगीकारण्यासाठी विरिष्ट पद्धतीची पूर्वलयांगी करण्याची आवश्यकता असते. मौतिक प्रधांचे वाचन, नियमित नुतारवयाचन, आक्रामवल्यीवरील कार्यक्रमांचे क्षत्रण, दूरदानिवरील नियहक कार्यक्रम पाहणे, सभा-संमेल्सावधील व्याख्याने ऐकने, विविध समारधातील मुक्सचालकाच्या भाषावापसंचे क्षत्रण करणे, पर्यटन करचे, बहुश्रुतता इत्यादी पूर्वतयारी आद्यां अभिवाचनासाठी धोच्या अभ्यासकाने कराची, हे सर्व घटक विस्तासने पाहल येतील.

१. भौतिक प्रधाने वाचर: वाचराचे महत्व लोकारा पटलेले आगते पांतु काम वाचाहे हे अवेकाल उमपत स्वाते आदती अधिकायराच्या पूर्वतयारीमाठी कोगत्या प्रकारणे यावन गायेचे आहे पाचा विवार करीत आहोत. प्रतामुजीचे साट्यणाच्य डानेवरी, तुकाराम गायर मोगेपतांच्या आवो, वालकजी, गोविंड्याव डुमुभामक वा कवोरकर, बहिणावार्, मांगा गोळके, गारच्या मुक्तिकोच, वाची मडेकर, विदा करंडीकर, वारायण सुचे वायदेव दमाळ, भालयंद केमदे इत्यादीवे काव्याच किल्लानकरांचे मंगीत मौधह, पाचा वोरकर, वारायण सुचे वायदेव दमाळ, भालयंद केमदे इत्यादीवे काव्याच किल्लानकरांचे मंगीत मौधह, पाचा वोरकर, वारा कावेटकर, आधार्य अवे, पुल देशपांदे किवच हेद्रस्वर, रत्याकर मतकसी, दता भगव, सजव प्रकार त्याच करीवा तेड्रलकराजी अनुवादित केलेली गिरित कर्वाड वायदे वेड्रस्वर, रत्याकर मतकसी, दता भगव, सजव प्रकार त्याच करीवा तेड्रलकराजी अनुवादित केलेली गिरित कर्वाड वायदे बाखेरीक कथा, काटंबची, ललित व येवरीक सिंबधायह लिहिणारे यो। लेखक को हरिभाक आपटे, को व्यं केतकर, आरंद यादव, बाबुराव बागुस, व्यकटेश माडगुळकर जी.ए मुरलकरणी, धालयंद्र नेमादे, भाक जगवरो, वावर प्रका, भारकर घटनशिव इत्यादो, तसेच येव मेह विद्यायतामहाला जोगीराव पुले, ही प्रावसाहेब आवेडकर, दी भा त. साखुरेवे आगा थोर विधूतीचे मीशिक प्रथ वायल्यास आगत्ते शब्दभांदार इतके समुद्ध होईख की अधिवाचन काताना शब्दीक्वाराच्या वेळी कोणतेही शब्द अधिवाधकारा अर्थातित वादणार महीति, राव्यां में वत्या थी ताकर त्यास गीटपणे लखात येच्या येच्या करतेहा

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A STUDY OF ENVIRONMENT AWARNENS AMONG PASS-OUT STUDENTS IN B.A. AND B.COM. PART-II AT ARTS AND COMMERCE COLLEGE, NAGTHANE DIST SA TARA (MAHARASHTRA)

MR. GURAV DIPAK UDDIIAV

Attinues Professor, Department of Geography, Arts and Commerce College, Nagihaw Tal. & Dec. Saura (Maharashera)

And

MR. SONAVALE AMOL GOVARDILAN

Aartinian Professor, Department of Commerce, Arst and Commerce College, Nagshame Yul, & Elin, Saara (Maharashera)

INTRODUCTION

The involvemental education is the mody of nature, natural resonances, the intervelationship with mark human activities, distarbances of the environment and the attempts to imporve the environment. It is an application of knowledge from different disciplines to study and manage the environment. It is also study of the conditions, circumstances and inflatences that affect life and how life is turn responde. Life regains the conditions, circumstances and inflatences that affect life and how life is turn responde. Life regains the conditions, circumstances condition to survive. Environmental study is haved upon a comprehensive views of various protocated systems. It is make the citizens competent to de scientific work and to find out practical solution to current environmental problem.

This study finds out the awareness and implementation of environmental education in society through graduate students.

IMPORTANCE OF STUDY

Environment is main base of human growth and loving tilt. Human being is direct and indirect depending on a orwinnersent because environment plays vital role in every activity of human. Hence the continumental reducation is a meni to young generation of Iralia. The University Grant Commission has instead a committee of expert on environmental studies. This was followed by fushing of the unser module splitches of minimumental studies for all undergraduate courses. The University Grant Commission has made in compilarry to all universities and colleges in kalla as per the detectives of the Host ble Supreme Court of Iralia.

Hon'his vice-character has endersed the scheme to the Dean of assial scienae faculty for designing the course corricula. According it has been stadled thoroughly and the scheme of it's implementation has been prepared and forwarded to the antiege.

The course vision is the importance of orvironmental stadles cannot be dispated. The need of somainable development is a key to the future of markind, continuing the problem of pollution, ions of freest, solid ware disposed, degradation of environment, issues like neoremetic productivity and national receipt, global warning, the degradation of issue layer and ions of biodiversity have made everyone aware of environmental issues. The united nation conference on world summit or savializable development at Johannesburg in 2002 have draw the attention of people around the globe to the deteriorating condition of our environmental management has captured the attention of health can managers, managing environmental havards has become very important. For the development of environment anatoms aroung student.

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GOODS AND SERVICE TAX IN INDIA

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Arts & Corratterce College, Negthare

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1. Introduction:

The recently introstuced Goods and Service Tax is undoubsedly the biggest tax relient a the momentary history of India. Goods and Service Tax introduced from 3* July 2017 in India Implementation of Goods and Service Tax leaves behind an inefficient complicated and ingenented indirect tax system. Goods and Service Tax has subsumed a profusion of Central and State indirect taxes to create a single unified market. It is stated to make indir a seamless nerves market, boosting trade and industry and in turn growth rate. Goods and Service Tax is expended represent a leop forward in creating a much cleaner dual Value Added Tax. Common has as common rates across goods and services and across States and between Centre and States will facilitate administration and improve compliance while also rendering manageable the collection of tax on inter State sales. Switching over to Goods and Service Tax is franght with man problems administrative and technical. However such problems are endemic to any charge a revolutionary proportions. It is a new tax shroulded in mystery, Stakeholders, State Government, tax officials, manufacturers, traiters, third parties and consumers are apprehensive, antions an uncertain about its implication. Goods and Service Tax is like an elephant amidst blind men eat holding a part of it and wondering what it is,

2. Objectives:

- 1. To know objectives of Tax Policy
- 2. To understand concept of GST
- 3. To study future challenges facing Goods and Service Tex-

J. Research Methodology

The present study will concerned with the study of Goods and Service Tax. So the regers data for the study will be collected from Secondary Sources. The secondary data necessary for the investigation was collected mainly from the various Government publish sources as well as the Internet, (web sites relating to the study) several Books and magazines.

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Synergetic effects of naturally sourced metal oxides in organic synthesis: a greener approach for the synthesis of pyrano[2,3-c]pyrazoles and pyrazolyl-4*H*-chromenes

Sachin K. Shinde¹ · Megha U. Patil¹ · Shashikant A. Damate¹ · Suresh S. Patil¹

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Abstract A clean and more economic protocol for the synthesis of pyrano[2,3c]pyrazoles and pyrazoly1-4H-chromenes has been carried out using bael fruit ash (BFA) as a non-conventional natural catalyst in aqueous condition at ambient temperature. The catalyst was obtained from renewable resources by simple thermal treatment to dry rind of *Aegle marmeles* (Bael) fruit and formation of its active phase was confirmed by AAS, DSC-TGA, XRD, FT-IR, and SEM techniques. The BFA catalyst was found to be a green, highly active, easily biodegradable, and recyclable without loss of activity after the fifth run. The methodology provides an alternative platform to the conventional catalyzed process.

Electronic supplementary material. The online version of this article (https://doi.org/10.1007/s11164-017-3197-8) contains supplementary material, which is available to authorized users.

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Natural Bio-surfactant for Pseudomulticomponent Synthesis of 2-aryl-1aryl Methyl-1H-benzimidazoles

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Abstract: Green chemistry emphasizes the development of environmentally benign chemical processes and technologies. Pseudo-multicomponent synthesis of 2-aryl-1-arylmethyl-1H-benzimidazoles using o-phenylanediamine and aromatic aldehydes is carried out by Brénuted acid type bio-surfactant as a catalyst. The green features of this method include the use of biodegradable catalyst obtained from renewable resource *i.e. Citrus Lononium* extract as bio-surfactant type Brénuted acid, which provides a micellar media for effective cyclocondensation. The critical micellar concentration (cme) of biosurfactant was determined by conductivity method and visualized by light microscopy measurement. Identity of all pure compounds was ascertained on the basis of FT-IR, ¹H NMR and ¹⁵C NMR spectroscopic techniques.

Keywords: Bio-surfactant, Brönsted acid, Citrus limonium, benzimidazole.

1. INTRODUCTION

Heterocycles play important role for the design and discovery of new compounds of pharmaceutical applications [1]. Benzimidazoles are important structural motif exhibiting significant activity against several viruses such as HIV [2]. herpes (HSV-1) [3], RNA [4]. Benzimidazoles act as DNA minor groove binding agents with antitumor activity [5], anticancer activity [6]. Their diverse applications comprise their role as potential angiotensin II inhibitors [7], 5lipoxygenase inhibitors for use as novel anti-allergic agents [8], factor Xa (FXa) inhibitors [9], and ADP-ribose polymerase (PARP) inhibitors [10]. Some recently reported methods regarding benzimidazole synthesis are use of catalyst such as VO(acac)₂ [11], β-cyclodextrin (ZrO₂-β-CD) [12], KOBut [13], Amberlite IR-120 [14], bnmim-HSO₄ [15], MoO₂/CeO2-ZrO2 [16], CAN [17], ([Hbim]BF4) [18], L-Proline [19], SnCl₂-2H₂O [20], Co-SBA-15 [21]. Although all these reactions can be efficient and selective but they often involve expensive reagents, drastic reaction conditions and tedious work up procedures. Therefore, it was thought that there is scope for improvement especially towards developing a green protocol for synthesis of benzimidazoles. Pseudomulticomponent reactions are multicomponent reactions in which at least one of the two reactants take part in two or more reaction steps. When two of the three or more

*Address correspondence to this author at the Synthetic Research Laboratory, PG Department of Chemiany, PDVP College, Tasgaon, India; Tel: 9900734931; E-mail: sanyojapatibilityahon.com components are identical, the reaction is better designated as pseudo-MCRs. Even though incorporation of two identical components in the product of a pseudo-MCR exhibits severe limitation in terms of scope and functional flexibility, these transformations follow advantage of being very timeefficient, allowing for the rapid, sometimes spectacular, generation of molecular complexity. Particularly valuable are pseudo-MCRs involving successive but distinct and complementary reactivity's of the same component [22].

Biosurfactants being natural and promising surfactants because have certain advantages over chemical surfactants, such as their lower toxicity, their biodegradable nature, and their ecological acceptability. Some surfactants are biologically produced by yeasts or bacteria and are grouped as glycolipids, lipopeptides, fatty acids, polymeric and particulate compounds [23, 24]. One of the fundamental properties of surfactants is there self-association into organized molecular structure such as micelles, vesicles, microemulsions, bilayers, membranes and liquid crystals [25]. The simplest class of association colloids is the micelle. Micellisation characteristics of surfactant are determined by micellization parameters such as critical micellar concentration(CMC), aggregation number etc. Combined Brønsted acid surfactant catalysts have also been employed in several organic reactions. [26]. Considering the significance of surfactants, in this communication, Citrus limonium extract (CLE) was chosen as catalytic media without using any external promoters, external acids, ligands, biphasic media and ionic liquids. The catalytic medium is sourced from the direct extraction of

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[BBSA-DBN][HSO₄]: a novel –SO₃H functionalized Bronsted acidic ionic liquid for easy access of quinoxalines

Megha U. Patil, Sachinkumar K. Shinde, Sandip P. Patil & Suresh S. Patil

Research on Chemical Intermediates

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RESEARCH ARTICLE



Natural Bio-surfactant for Pseudomulticomponent Synthesis of 2-Aryl-1aryl Methyl-1H-benzimidazoles

Smita T. Morbale¹, Sachin K. Shinde¹, Shashikant A. Damate¹, Madhukar B. Deshmukh² and Suresh S. Patil^{1,*}

¹Synthetic Research Laboratory, PG Department of Chemistry, PDVP College, Tasgaon, India; ²Department of Chemiatry, Shivaji University, Kolhapur, India

ARTICLE MISTORY

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PAPER



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Aegle marmelos in heterocyclization: greener, highly efficient, one-pot three-component protocol for the synthesis of highly functionalized 4H-benzochromenes and 4H-chromenes†

Sachin Shinde, Shashikant Damate, Smita Morbale, Megha Patil and Suresh S. Patil

A facile, one-pot three-component protocol for the synthesis of 2-amino-4H-chromene derivatives has been demonstrated using Bael Fruit Extract (BFE) as a natural catalyst in a green reaction medium. This method offers a mid, efficient and highly economical protocol since the reaction proceeds in natural BFE-catalyst at room temperature under aerobic conditions with a very short reaction time I30 mini under ligand/external catalyst/external promoter-free conditions and, therefore, it is a green and environmentally sound alternative to the existing protocols. The catalyst was obtained by thermal treatment followed by water extraction of the rind of Aegle marmelos thatel that. It was also found to be clean, high-yielding and has the capacity for large scale synthesis.

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Introduction

The concept of green chemistry plays an important role in meeting the fundamental scientific challenges of shielding the environment. One of the thrust areas for achieving this target is to investigate alternative reaction media and reaction conditions to carry out the desired chemical transformation with negligible by-products and waste generation as well as elimination of the use of volatile and toxic organic solvents. It is, therefore, of utmost importance to evolve a simple and effective methodology for the different organic transformations that cover the concept of green chemistry.⁴

 Multi-component reactions (MCRs) have gained increasing attention for the construction of novel and complex molecular structure because of their environmental-friendly, atom-economy and single-step product formation. This variety can be achieved aimply by changing reaction substrate only. For many decades, chemists have been devoting themselves to secure environment by developing new environmental-friendly MCRs for the synthesis of many important biologically active compounds.⁸

In modern organic chemistry, the improvement of reaction efficiency, the avoidance of toxic reagents, the reduction of waste, and the responsible utilization of our resources have become critical objectives.³⁴ By keeping these ideas in mind, a simple and green approach for the synthesis of 4H-benzochromenes and 4H-chromenes has been developed. Bael Fruit Extract (BFE) as a catalyst, ethanol as a solvent and room temperature conditions are enough to afford the 4H-chromene in nearly quantitative yields. Most important of all, the purification procedure is just followed by filtration, wonhing and drying, and so the waste can be reduced effectively.

4#-Benzochromene and 4#-chromene derivatives have received significant attention in organic chemistry due to their biological and pharmaceutical properties such as antimicrobial,* antiviral,* sex pheromone,* antibumor,* anti-inflammatory,* anti-tubercular,** and cancer therapy.** Indeed, vegetables and edible fruits are the food resources that are being characterized by natural products, containing chromene moiety in their structure.**

Synthesis of 4/4-benzochromenes has been achieved by condemation of aromatic aldehyde, malononitrile and u/βnaphthols in presence of various acid catalysts such as methanesulphonic acid,¹⁰ TiCl₄,¹⁰ H₁₄[NaP₃W₂₄O₁₁₀],⁴⁰ p⁻TSA,⁴⁰ as well as basic catalysts such as γ -alumina,⁴⁷ Na₂CO₃,¹⁰ K₂CO₃,¹⁰ piperidine,⁴⁰ nano sized MgO⁴⁰ and NaOH.⁴⁰ This reaction was also reported by employing PTCs such as 1-burgh-3-methylimidazolium hydroxide[[bmim]OH],⁴⁰ hexadecyltrimethylammonium bromide (HTMAB),⁴⁰ cetyltrimethylammonium bromide (CTAB) coupled with ultrasound,⁴⁰ triethylbenzylammonium chloride (TEBA),⁴⁰ cetyltrimethylammonium chloride (CTAC),⁴⁷ and N,N-dimethyl aminoethyl benzyl dimethyl ammonium chloride.⁴⁰

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f Electronic supplementary information (ESI) available: Complete experimental procedures are provided, including preparation of catalyst, general procedure for aenthesis of 2-amino-43/chromenan and 2-amino-43/benzochromenes, IR, 'H NMR, and ³⁵C NMR of some representative compounds. Ion DOI: 18.103/wc6rc38779d







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^{*} Elementic supplementary information (ESI) available: Complete experimental procedures are provided, including preparation of catalyst, general procedure for synthesis of 2-amine-62/chromenes and 2-amine-69/femandromanes, IR, 'H NMR, and ¹⁵C NMR of some representative compounds. See DOI: 10.1029/04/s28756d



PAPER



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Aegle marmelos in heterocyclization: greener, highly efficient, one-pot three-component protocol for the synthesis of highly functionalized 4H-benzochromenes and 4H-chromenes†

Sachin Shinde, Shashikant Damate, Smita Morbale, Megha Patil and Suresh S. Patil

A facile, one-pot three-component protocol for the synthesis of 2-amino-4H-chromene derivatives has been demonstrated using Baal Fruit Extract (BFE) as a natural catalyst in a green reaction medium. This method offers a mild, efficient and highly economical protocol since the reaction proceeds in natural BFE-catalyst at room temperature under aerobic conditions with a very short reaction time (30 min) under ligand/external catalyst/external promoter-free conditions and, therefore, it is a green and environmentally sound alternative to the existing protocols. The catalyst was obtained by thermal treatment followed by water extraction of the rind of Aegle marmelos (bael) truit. It was also found to be clean, high-yielding and has the capacity for large scale synthesis.

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Introduction

The concept of green chemistry plays an important role in meeting the fundamental scientific challenges of shielding the environment. One of the thrust areas for achieving this target is to investigate alternative reaction media and reaction conditions to carry out the desired chemical transformation with negligible by-products and waste generation as well as elimination of the use of volatile and toxic organic solvents. It is, therefore, of utmost importance to evolve a simple and effective methodology for the different organic transformations that cover the concept of green chemistry.⁴

Multi-component reactions (MCRs) have gained increasing attention for the construction of novel and complex molecular structure because of their environmental-friendly, atom-economy and single-step product formation. This variety can be achieved simply by changing reaction substrate only. For many decades, chemists have been devoting themselves to secure environment by developing new environmental-friendly MCRs for the synthesis of many important biologically active compounds.⁸

In modern organic chemistry, the improvement of reaction efficiency, the avoidance of toxic reagents, the reduction of waste, and the responsible utilization of our resources have become critical objectives.⁵⁴ By keeping these ideas in mind, a simple and green approach for the synthesis of 4*H*-benzochromenes and 4*H*-chromenes has been developed. Bael Fruit Extract (BFE) as a catabyst, ethanol as a solvent and room temperature conditions are enough to afford the 4*H*-chromene in nearly quantitative yields. Most important of all, the purification procedure is just followed by filtration, washing and drying, and so the waste can be reduced effectively.

4#-Benzochromene and 4#-chromene derivatives have received significant attention in organic chemistry due to their biological and pharmaceutical properties such as antimicrobial,^a antivizal,^{*} sex pheromone,^{*} antitumor,^{*} anti-inflammatory,^{*} anti-tubercular,ⁱⁿ and cancer therapy.⁴¹ Indeed, vegetables and edible fruits are the food resources that are being characteriaed by natural products, containing chromene maiety in their structure.⁴⁵

Synthesis of 4//-benzochromenes has been achieved by condensation of aromatic aldehyde, malononitrile and n/pnaphthols in presence of various acid catalysts such as methanesulphonic acid,⁴⁰ TiCl₄,⁴¹ H₄₄[NaP₄W₃₀O₁₂₀],⁴⁰ p⁻TSA,⁴⁰ as well as basic catalysts such as γ -alumina,⁴⁰ Na₂CO₃,⁴⁰ K₂CO₃,⁴⁰ piperidine,⁴⁰ nano sized MgO⁴¹ and NaOH.⁴⁰ This reaction was also reported by employing PTCa such as 1-butyl-3-methylimidaeolium hydroxide[[bmim]OH],⁴⁰ hexadecyltrimethylammonium bromide (HTMAB),⁴⁰ cetyltrimethylammonium bromide (CTAB) coupled with ultrasound,⁴⁰ triethylbenzylammonium chloride (TEBA),⁴⁰ cetyltrimethylammonium chloride (CTAC),²⁷ and N₂N-dimethyl aminoethyl benzyl dimethyl ammonium chloride.⁴⁰

Several procedures for the multi-component preparation of 2-amino-40-chromenes have been reported by employing salicylaldehydes and malononitrile or ethylcyanoacetate over the

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^{*} Electronic supplementary information (ESI) available: Complete experimental procedures are provided, including preparation of varialyst, general procedure for synthesis of 3-antiro-4/Februareness and 3-antiro-4F betweenformanes, IE, '11 NMB, and '15C NMR of some representative compounds. See DOI: 10.1073/s646320779d







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Introduction

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¹ Electronic supplementary information (ESI) available: Complete experimental procedures are provided, including preparation of variabilit, general procedure for synthesis of 2 amino-40/ characeuse and 2 amina-40/ hencechromenen, IR, ¹U NMB, and ¹¹C NMB of some representative compounds. See DOI: 10.1078/06/ea20779d

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Trifluoroethanol and liquid-assisted grinding method: a green catalytic access for multicomponent synthesis

Trushant Lohar¹ · Ananda Mane¹ · Siddharth Kamat¹ · Arjun Kumbhar¹ · Rajashri Salunkhe¹

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Abstract An efficient and versatile mechanochemical route for the synthesis of chromene and isoindolo[2,1-a]quinazoline scaffolds has been developed via a simple 'mortar and pestle liquid-assisted grinding method using 2,2,2-trifluo-roethanol (TFE) as an efficient catalyst. The present protocol is very efficient as it offers reaction in mild reaction condition, cleaner reaction profiles, effortless work-up step with excellent purity, and high yield of the desired products with short reaction time.

Keywords Liquid assisted grinding - Trifluoroethanol - Chromenes - Isoindolo[2,1a]quinazolines

Introduction

Over the last few years, fluorinated compounds have attracted great interest in organic synthesis due to their favorable properties like low boiling points and high melting points compared with their non-fluorinated counterparts. In addition, they have high polarity and strong hydrogen bond donation which increase their ability to solvate water molecules [1]. Special attention has been paid to 2,2,2-trifluoroethanol (TFE) as its strong electron-withdrawing CF₃ group affects the course of reactions when it is used as a solvent. As TFE is acting as a Brønsted acid, the organic reactions in TFE are generally selective and carried out without using any catalysts.

Electronic supplementary material. The online version of this article (https://doi.org/10.1007/s11164-017-3206-y) contains supplementary material, which is available to authorized users.

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Research Paper

Palladium supported ionic liquid phase catalyst (Pd@SILP-PS) for room temperature Suzuki-Miyaura cross-coupling reaction



MCAT

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ABSTRACT

A new Pd-SiLP based on amino functionalized insiderolium ionic liquid inmobilized on Merrifield resin (Pd#SiLP-P5) has been synthesized. The catalyst was characterized by different techniques like FT-IR, SEM-ED5, TEM, TGA-DTA and XP5. The catalyst has shown to be highly active in Suzuki-Miyaura crosscoupling maction of various anyl halides and anyl boronic acids in ethanol at room temperature. The activity of catalyst and the nature of product were highly dependent on the type of the solvent used, as well as the substituents present on the anyl halides. The protic polar solvent ethanol gave desired crosscoupling product in good to excellent yields at room temperature. However the aprotic polar solvent THF gave homocoupling product. The catalyst showed at least five times recyclability without a decrease in product yield.

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1. Introduction

The past few decades have seen rapid development in the area of Pd catalyzed cross-coupling reactions [1,2]. Especially Suzuki-Miyaura cross-coupling reaction [1,4] has been studied more widely owing to the importance of this reaction in the synthesis of many natural products, pharmaceutical intermediates and organicpolymers [5]. As compared to analogous cross-coupling reactions, the Suzuki-Miyaura reaction can be carried out under mild reaction additions. This reaction has been widely catalyzed by homogebus catalysts as these catalysts are highly active [6]. However, the high price of Pd metal and its possible contamination in the final product still overwhelm its use in large-scale applications. To avoid these problems, air-stable, recyclable heterogeneous catalysts based on suitable solid supports like carbon, biopolymer, silica, zeolites, organic polymers have been developed [7–11].

In recent years, ionic liquids (ILs) have been engrossed considerable interest in transition metal catalysis as a green, non-volatile, recoverable and recyclable reaction media for biphanic reactions, because of the ease of product and catalyst separation [12,13]. There are many reports cited in literature in which IL itself acts as a ligand in the form of 'N-Heterocyclic Carbene' (NHC) complexes [14].

http://dx.doi.org/10.1016/j.mcat.2017.08.023 3408-8231/@ 2017 Shevier R.V. All rights reserved. Nevertheless, due to the substantial amount of ILs are required for biphasic separation and its high preparation cost, many of these ILs are used in very small amounts, in the form of 'Supported Ionic Liquid Phase' (SILF).

Though the 'Supported Liquid Phase Catalysts (SLPC)' have been reported previously [15], in recent years there is an upsurge in the application of SILP catalysts in many catalytic reactions [16,17]. The concept of SILP involves a formation of thin films of ILs containing metal catalysts, on the surface of a suitable solid support. This system leads to a significant decrease in the amount of IL as well as it increases the contact area between the two phases that enhances efficiency of the catalysts. The SILP concept also allows ease of catalyst separation and recycling. This ability of SILP catalysts can permit its potential use mainly in fixed-bed reactors [18]. In recent years only few numbers of Pd-SILP catalysts based on organic polymers and silica have been reported for various crosscoupling reactions [19-26]. While only one report mentioned by Gruttadauria et al. [27] for Pd supported on multi-layered, covalently supported ionic liquid phase (mic-SILP) catalyst for the Suzuki-Miyaura cross-coupling reaction in aqueous medium.

Recently we reported applications of amine functionalized ligands [28] supported on silica [29] as well as alumina-cellulose composite [20] for phosphine-free Suzuki-Miyaura cross-coupling reaction. In this link, we proposed to design highly efficient Pd supported on amine functioned SILP based on Metrifield resin. The conceptual picture of catalyst is represented in Fig. 1. We specu-

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Review

Functionalized nitrogen ligands for palladium catalyzed cross-coupling reactions (part I)



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ABSTRACT

The Pd catalyzed cross coupling reactions of compounds containing C-X hoods (C-L C-Br, C-Cl, C-N, C-O and C-H) with a variety of nucleophiles is one of the nuclei efficient and reliable approachs for the construction of new C-C and C-heteroatom bonds. In recent years, great achievements have been made in this field, and many powerful catalytic systems based on ligand design have been developed. This comprehensive review covers recent effort made in the constructions of C-C and C-heteroatom bonds through Pd complexes based on the N ligands. We divided this topic into two parts. In present part we have focused on the applications of the ligands containing only N as a donor atom. In the next part we will cover all ligands and complexen containing N in combination with C. P. O and S as a donor atom. © 2017 Elsevier B.V. All rights reserved.

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1. Introduction

Since the early 20th century the transition metal catalyzed reactions have been indispensable to all facets of modern chemical synthesis [1]. It is difficult to imagine the reactivity and selectivity of all known homogeneous metal catalysts. But from the last few decades, advances in ligand design bridged this divide, such that today many of the C-C and C-beteroatom bond forming reactions have been well understood. Over the past 50 years a great number of contributions have emerged from a wide range research groups with vast improvements on the Pd catalyzed cross coupling reactions [2].

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tictp://dx.dui.org/10.1016/j.preparchere.20172721699 0022-3280/0-2017 Elsevier E.V. All rights reserved. Special advances have been made in the way of reaction scope including;

- The use of different substrates like aryl halides, triflates, tosylates, mesylates, diazonium salts and many more.
- (2) Direct activation of C-H bonds selectively by proper selection of functional groups containing N as a donor atom (directing group).
- (3) The ability to conduct the coupling reactions at very low metal catalyst loadings.
- (4) Reactions at comparatively low temperatures.
- (5) Use of environmentally benign solvents like water or mixture of solvents containing water.
- (6) Easily recoverable and recyclable catalysts.
- (7) The procedures that utilize "ligand-free" conditions and

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Transition metal-free Suzuki type cross-coupling reaction for the synthesis of dissymmetric ketones



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ABSTRACT

A simple, efficient and metal-free route for the synthesis of dissymmetric ketones through Suzaki type cross-coupling reaction has been established. This strategy signifies an attractive, cost-effective and operationally convenient tool for the synthesis of a wide range of dissymmetric ketones. Although convenitional routes for the synthesis of ketones have been widely used, the potential challenge with these methods is functional group tolerance. The reported metal-free method represents a reaction with moderate functional group tolerance. The procedure is operationally convenient and shows broad substrate scope with good to excellent product yields.

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In the last few decades, a massive effort has been devoted to the advancement of transition metal catalyzed cross-coupling reactions for the synthesis of many important bloactive compounds using a diverse range of electrophiles and nucleophiles.1 Such a transition metal catalyzed cross-coupling reactions have endorsed chemists to construct complex molecular frameworks containing specific functional groups covering total synthesis of natural products, active pharmaceutical ingredients as well as structurally important compounds.2 These reactions are considered as the most reliable, reproducible, and straight forward synthetic tool that enables a wide number of applications in chemical industries. Recently, different research groups circumvent the transition metal catalysts from many organic transformations,2 as most of the transition metal catalysts are expensive, require ligands and are toxic. Additionally, removal of even a trace amount of metal from the final product is quite challenging, costly and crucial, especially in the pharmaceutical active compounds.

The dissymmetric ketones are exists as a common structural motif in many natural products and pharmaceutical important compounds⁴ and have been synthesized from various routes (Fig. 1). Friedel-Crafts acylation reaction (Fig. 1, pathway 1) is one of the fundamental methods used for the synthesis of such dissymmetric ketones,¹ nevertheless this reaction have many inherent limitations. Recently, Pd catalyzed Suzuki type acylation (Fig. 1, pathway 2) of organuboranes by carboxylic acid derivatives

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Netp://dx.doi.org/10.1016/j.reftet.2017.06.040 0040-4039/0 2017 Ebevier Ltd. All rights reserved. such as acid chlorides, esters, anhydrides and dimethyl dicarbonates[®] have been reported as one of the alternatives to classical Friedel-Crafts acylation. In addition the dissymmetric ketones are also prepared by Pd catalyzed carbonylation (Fig. 1, pathway 3) of aryl halides with carbon monoxide in the presence of organometallic reagents.¹ Recently, transition-metal-catalyzed ortho C—H acylation has been performed as an efficient and direct method for synthesis of aryl ketones.⁴

In continuation of our interest in the development of environmentally benign reaction conditions for organic transformation,⁹ we report here metal-free synthesis of dissymmetric ketones through Suzuki type cross-coupling reaction. Our goal was to carry out the coupling of benzoyl chlorides with arythoronic acids by metal-free, base induced conversions, that otherwise would not be possible without Lewis acid (Fig. 1, pathway 4). By using this method we can totally bypass the transition metals as well as Lewis acids. An additional feature of this methodology is, it permits to prepare ketones which contains acid sensitive functional groups, which otherwise not conceivable by Friedel-Crafts reaction conditions.

For the development of metal-free acetylation, 4-nitrobenzoyl chloride and phenylboronic acid were used as a model reaction partners. Initially, the effect of nature and the amount of bases were studied in toluene under heating (100 °C) and the results are shown in Table 1.

Initially, when the model reaction was carried out without base, no product was detected even after extended reaction time to 6 h, indicating that role of base is vital (Table 1, entry 1). The base plays crucial role in activation of phenyl boronic acid similar to that in Pd

Accepted Manuscript

Facile Suzuki-Miyaura cross coupling using ferrocene tethered Nheterocyclic carbene-Pd complex anchored on cellulose



Dolly Kale, Gajanan Rashinkar, Arjun Kumbhar, Rajashri Salunkhe

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Real and Complex Permeability of Ni- Zn-Ti Ferrite

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Abstract

Titanium substituted nickel zinc ferrite was prepared by standard ceramic technique. The prepared ferrites were presintered at750°C and powdering of the formed product was final sintering at 1200°C. Powder x-ray diffraction study shows the formation of single phase spinel structure. The frequency variation of real part of initial permeability (μ ') and complex part of initial permeability (μ ') and complex part of initial permeability (μ ') and complex part of initial permeability (μ ') were studied by using Hioki LCR-Q meter. The frequency variation of initial permeability clearly indicates the low frequency dispersion which may be attributed to domain wall movements. The compositional variation of permeability of titanium substituted nickel zinc ferrite decreases with increase of titanium substitution.

Keywords: Real permeability, ceramic method, x-ray diffraction

1. INTRODUCTION

Ni-Zn ferrite are useful for making antenna rod, high frequency inductors, transformers, cores and read write heads for high speed digital tape or disc recording. Despite the fact that Ni – Zn ferrites are very good microwave absorbers. The magnetic properties of ferrites depend upon chemical compositions, porosity, grain size, and microstructure. Parvatheeswara et al [1] synthesized Ni-Zn-In-Ti ferrite nanoparticles using classical ceramic method. Also they have studied complex permeability and power loss measurements of Ni-Zn-In-Ti ferrites. They have showed


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Dielectric Behavior of Dysprosium Substituted Magnesium Ferrite

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Abstract

Dysprosium substituted Magnesium fornte were successfully prepared by chemical combustion method. The as synthesized powder was presintered in air at 600 °C for 1tr and finally sintered at 950 °C for 1tr. From X-ray powder diffraction pattern of MgDy_{out}Fe_{1,tr}O₄, contirmed single phase structure. Crystalline size of synthesized material was obtained from X-ray powder diffraction (311) peak, it is found to be 46.36mm. The frequency and temperature variation of dielectric constant, dielectric loss and loss tangent were determined by using instrument Hicki LCR meter. The frequency variation of dielectric constant shows normal dielectric properties of ferrites. The loss tangent with frequency shows similar properties as dielectric constant.



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Introduction

Nanocrystalline ferrites have very good electric, dielectric and magnetic properties and number of applications from radio frequencies to microwave frequencies. The dielectric constant, dielectric loss, loss tangent and resistivity of ferrites are necessary to know for high frequency electrical applications¹. The properties of electrical insulating materials are depends upon preparation method, chemical composition and type of additives². Magnesium ferrite is a soft magnetic n - type semiconducting material, have high Curie temperature, high resistivity and environmental stability; hence it is most suitable for sensing applications⁸. Magnesium femites are widely used as catalysts have many applications in adsorption sensors, electric and magnetic technologies⁴⁵.

Rare earth element substituted into spinel type structure of ferrite, which can modify electrical as well as magnetic parameters of ferrites⁶. Rare earth doped ferrite material have high resistivity

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Life Science Informatics Publication



Original Research Article

Detection of seed borne mycoflora from different categories of Chickpea (Cicer arietinum) L.

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Abstract

During present investigation Seed borne mycoflora of chickpea was studied by using blotter and agar plate methods as recommended by ISTA. Total 15 fungi were recorded from different categories of seeds. Among all categories of seeds, injured seeds of chickpea showed maximum seed mycoflora.

Key words: Chickpea, seed mycoflora, injured seeds.

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INTRODUCTION

Chickpea (*Cicer arietinum*) L. is important pulse food crop in India. It belongs to Fabaceae. It is native of Turkey. Nutritionally, it contains 17.21% proteins, 62% carbohydrates, fats. It has rich source of calcium, iron and vitamin C (Green stage) and vitamin B. Leaves contains malic acid and citric acid important for stomach ailments and important for blood purification.

India ranks first in the world in terms of the acreage cultivate with this crop (7.49 mha) and the annual yield of about 6.33 mnts (Anon.,2007). The crop is affected by many fungal and bacterial pathogens but black root rot of chickpea caused by *Fusarium solani* is very serious fungal disease in India which causes 70 to 80 percent yield loss in field (Nene and Reddy 1987).

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HISTOPATHOLOGY OF MACROPHOMINA STEM CANKER DISEASE IN PIGEONPEA (CAJANUS CAJAN L.)

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ABSTRACT

Macrophomina phaseolina, causal agent of stem canker disease has recently emerged as an agriculturally important plant pathogen. Macrophomina stem canker disease (MSD), caused by Macrophomina phaseolina is a potentially serious disease in pigeonpea that occurs when reaches physiological maturity i.e., during flowering. The fungus incites necrotic lesions on stem and girdles the plant at the base leading to premature flower drop leading to complete witing and finally death of the entire plant. The mechanisms of infection remain to be fully elucidated. The present study investigated histopathology of MSD caused by *M. phaseolina* in pigeonpea seed and seedlings using light microscopy. Pigeonpea variety 'Bahar' was used in this study. Histopathological sections of seed, stem, root, and leaves were prepared and stained with safranin and trypan blue. Histopathology of the infected plant parts showed the presence of intercellular mycelia and microsclerotia in the cortex and vascular tissues. The germ tube colonized the plant with growth of seedlings following seed coat, cotyledon, stem, root and leaves. According to the results, the pathogen can penetrate and invade the seeds within 24 h post inoculation.

Keywords: Histopathology, Macrophomina phaseolina, pigeonpea, stem canker.

INTRODUCTION

Pigeonpea (Cajanus cajan L) is an important grain legume crop of rainfed agriculture in the semi-arid tropics. Besides Indian sub-continent, it is widely grown in Eastern Africa and Central America. It is not only an important source of protein, but also plays an important role in atmospheric nitrogen fixation into soil. It is reported that a long duration pigeonpea cropping could fix up to 200 kg N /ha and the residual effect for next crop remains 40 kg N/ha.

Pigeonpea is affected by more than 100 diseases but only few cause economic losses. Recently, *Macrophomina phaseolina* (Tassi) Goid has emerged as one of the important pathogen of different agricultural crops including' pigeonpea (Kaur et al., 2012a). *M. phaseolina* is an anamorphic fungus in the ascomycete family Botryosphaeriaceae (Crous et al., 2006). The fungus has a wide geographical distribution from tropics to subtropics ranging from arid to semi-arid climates in

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Africa, Asia, Europe, and north and South America (Diourte et al., 1995; Wrather et al., 2001). It has a wide host range, infecting about 500 cultivated and wild plant species from more than 100 families around the world (Mihail & Taylor, 1995). Macrophomina is primarily soil and seed-borne fungal pathogen that incites the disease by producing microsclerotia/pycnidia (Pun et al., 1998). *Macrophomina* exhibits high morphological, pathogenic, physiological and genetic variability (Jana et al., 2005; Kaur et al., 2013). Stem canker disease has become one of the most devastating diseases of pigeonpea (*Cajanus cajan* [L.)). The disease incidence and severity of up to 70 and 55% were reported in a survey from regions of eastern Uttar Pradesh in India (Kaur et al., 2012b).

Macrophomina stem canker is a sporadic disease and causes dry root rot, stem canker, and stalk rot or charcoal rot of plant. The symptoms of the disease appear on the stem as the charcoal like appearance which starts from the base and proceeds upward towards the branches. Under conditions of high temperature and water stress, the disease symptoms are more severe (Short *et al.*, 1980). Although, disease Chougule et al, RJLBPCS 2017

Life Science Informatics Publication



Original Research Article

Isolation and identification of house dust micro-algae from sangli district Padmaja M. Chougule*, Yogesh S. Andoji¹

- 1. Department of Botany, PDVP College Tasgaon, Maharashtra, India
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Abstract

During present investigation 50 dust samples were collected from houses of those patients who suffers from nasobranchial allergy. Dust samples were collected with the help of vaccum cleaner and packed in sterilized polythene bags and cultured on Bolds basal medium (BBM) ammended with agar powder. The result showed that the members of Cyanophyceae are predominant on all micro-algae, followed by Chlorophyceae and Bacillariophyceae. *Aphanothece nidulans* were most dominant algal species over all which observedin 32 dust samples and causes several respiratory disorders to immuno depressed peoples.

Keywords- House dust samples, micro-algae, immuno depressed peoples.

Dr. Padmaja M. chougule Department of Botany, K.W.College, Sangli.416304 *Corresponding Author

INTRODUCTION

House dust is mixture of diver's components that can cause different type of allergies. Microalgae is important bio-component among that. The air borne microalgae constitute a source of respiratory hypersensitivity reaction in immuno depressed peoples (Schwimmer and schwimmer,1968). Except few researchers, very less attaintation has been paid towards house dust micro-algae. Berstein and safferman (1970) isolated viable 41 algal members from home dust. Lustgraff (1979) has studied the seasonal variation and frequency distribution of micro

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International Journal of DEVELOPMENT RESEARCH

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Full Length Research Article

ANTIFUNGAL ACTIVITY OF SOME COMMON MEDICINAL PLANT EXTRACTS AGAINST SOIL BORNE PHYTOPATHOGENIC FUNGI FUSARIUM OXYSPORUM CAUSING WILT OF TOMATO

'Yogesh S. Andoji and Padmaja M. Chougule

Department of Botany, P.D.V.P. College, Tasgaon

| ARTICLE INFO | ABSTRACT |
|---|--|
| Article History: Received 17 th December, 2016 Received in revised form 25 th January, 2017 Accepted 10 th February, 2017 Published online 31 th March, 2017 | Biopesticides are mostly used to control fungal plant diseases because of their ecofriendly nature and their cost effectiveness. The present study focused on antifungal activity of solvent based plant extracts of common medicinal plants Azadirachta indica "Tinospora cordifolia, Oscinum sunctam, Austicia adhansda , Catharanshus raseas, Aegle marmelus, Alos barbadensis, Tithonia diversifolia, Hyptis suaveoloss and Pongamia pinnata were observed against soil borne phytopathogenic fungus Fuzariam asymptotum by modified poisoned food technique. The methanol. ethic extrata because and third form |
| Key Words: Antifungal Activity, | study. The extracts of Azadirachta indica and Oscimum sanctum were most effective against Fusarium orysporum. The present investigation suggests that acetone and chloroform extracts of Azadirachta indica and methanol extract of Oscimum sanctum acts as stong biopesticides and |

fungicidal properties and may be used as botanical biopesticides.

Antifungal Activity, Biopesticides, Wilt of Tomato, Funation Oxysporum.

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INTRODUCTION

A major reason for the application of medicinal plants is their ability to control pests and pathogens in their surrounding environment. So, they could be effective source of antimicrobial agents and their identification is very important to produce ecofriendly and cost effective pesticides. Biopesticides are gaining growing interest because of their ecofriendly attributes (Dwivedi and Singh, 1998; Karnwal and Singh, 2006). Phytopathogenic fungl are the chief infectious agents which causes malfunctioning during developmental stages and also in post-harvest.Now a days, infection due to fungal pathogens has become more common incidence. Toinato (Lycopersicost esculentum Mill) is perennial herb and belongs to family Solanaceae. Tomato is the second most important vegetable crop next to potato and generally used in soups and stews. Fusarium wilt is most destructing disease of tomato (Singh et.al; 1980). The disease is seed and soil born shows yellowing and wilting symptoms. According to Sherf and Macnab, 1986 Fuzarium oxyoporum causes root rot and wilt of tomato. Fungal species of the genera Fusarium and Aspergillus are major plant pathogens world wide (Gafoor and Khan, 1976; Mirza and Kureshi, 1978).

*Corresponding author: Yogesh S. Andoji, Department of Botany, P.D.F.P. College, Tasgaon.

film

Fusarium is very common fungal pathogen which cause wilt and rot symptom in plants. Controlling Funarium wilt is very difficult because it spreads so fast and it is estimated that nearly 80% of the crop damage worldwide is causeddue to this busy fungi (Agrios, 2000). The most effective method of protecting the plants from fungal pathogens is the application of fungicides. The continuous application of any fungicide may lead to develop resistance in target pathogen and such resistance is acquired by the pathogen. There are so many fungicides available in market which are non-biodegradable and they accumulate in the soil which causes lethal effects on human and other organisms in surrounding environment through food chain. Therefore, there is need to use some ecofriendly cost effective substitutes for management of plant diseases. Natural products are very effective solution to the environmental problems caused by the synthetic fungicides and many investigators are trying to know the effective natural products to replace the synthetic pesticides (Kim et al., 2005). The use of botanical biopesticides for the control of disease in plants is accepted as an substitute source to synthetic pesticides due to their lower negative impacts on the surrounding environment. The botanical biofungicides are cheap, easily available, non toxic and biodegradable (Singh et.al., 1986; Dubey, 1991; Alam et al., 2002).

completely inhibit the growth of pathogen. This study reveals that these extracts contains amazing



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ASSESSING WATER BASED RECREATIONAL ACTIVITIES TO ECOTOURISM POTENTIALS IN DROUGHT PRONE REGION OF SANGLI DISTRICT, MAHARASHTRA

Dr. Alaka A. Patil

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Abstract:

Reservoirs demonstrate a fundamental home to biodiversity and attractive features to recreationists in many villages, towns. They prevent potentials for water dependent recreational activities like bathing, washing cloths, automobiles, traditional fishing and some or monial functions. Reservoirs are unique aquatic ecosystem. The ecosystem services provided by the lake include recreational ecotourism which is widely practised by local community. However there are challenges of degradation at various adverse levels due to pollution and mismanogement. The main objective was to examine trends of water based activities in relation to ecotourism. This paper presents discussion on observed scenarios that characterise water based recreational activities for appreciating relationship that enhance or hamper ecotourism development. Interestingly, local people who engage in activities are not aware that are actually local eco-inuriats. Yet a greater percentage of wastes are generated and disposed in the waters and these activities might not have sufficient economic gains.

Key words: Reservoirs, ecotourism, anthropogenic activities.

Introduction:

Sangli district is aituated between 16.46 to 17.1" N and 73.43 to 75.0" E latitudes. The total geographical area of the district is \$601.5 sq. km. Geographically, Sangli district is divided into two mores viz. area adjoining Krishna river basin and eastern drought prone area away from basin with low minfall and typical arid geographical set up. The overall water level is up to 6 meters down but varies according to geographical area, atrata and location of the particular village. The eastern part of the district shows low lertile soil because of natural set up where man-made reservoirs have become source of irrigation besides the well. This region includes Khanapur, Atpadi, Kavathe- Mahankal, Jath and eastern part of Tasgaon tahell. This eastern region shows acarcity of water leading to general dry climate. The present work is restricted for the study of man-made reservoirs of the drought prone eastern part of the Sangli district.

All reservoirs (major and minor) are surveyed and total aix reservoirs are chosen for the study as a representative of each tahail. They are 1) Bhambarde and 2) Lengre from Khanapur tahail, 3) Atpadi reservoir from Atpadi tahail, 4) Sidhewadi from of Tasgaon tahail, 5) Borgaon reservoir from Kavathe-Maharkail tahail and 6) Birnal reservoir from Jath tahail. From each tahail single reservoir is selected however, from Khanapur tahail two water bodies are selected. It was observed during survey that

Shambarde and Lengre are two big reservoirs of

this tahsil having water throughout the year. Initially it was observed that fruit crops like import quality grapes, sugarcane are cultivated by direct or indirect use of these water resources. Therefore, to know the details about agricultural productivity attempt is made for two water bodies from Khanapur tahsil. These minor and medium reservoirs store rain water received from adjoining areas through smaller channels. It is being utilized for drinking and irrigation purposes through scheme. These mservoirs are mainly constructed for irrigation purpose. Irrigation is an age old art as old as human utilization. The fishing activity is undertaken by the fishermen community and local inhabitants of adjoining villages have become the source of an additional income. Thus, increasing human activities over the recent past years imposing a greater stress on this ecosystem. It is well, known that almost all human activities change the quality of water reservoirs. The causative factors responsible for degradation water quality need to be evaluated as as to take proper steps before the situation becomes uncontrollable.

Material and Methods:

Six reservoirs were visited monthly for the period of two consecutive years (August 2014 to July 2016). Three sampling sites for each reservoir were selected for monthly analysis. The water samples were collected approximately 10-15 meters from border line of each wetland. Therefore, sampling sites were constant through out the samum. Water LIRBAT, Special Issue (1), Vol-V, April 2017

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Phytosociology OF DODDANALA RESERVOIR of Sangli District, Maharashtra (India)

Dr. Patil Alaka A.

Department of Botany, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Diat. Sangli. drafkagratil? (Formail.com

ABSTRACT

The wetlands are important and suitable habitats for variety of animals, birds and many aquatic plants, which form a typical food web. They play an important role in providing food to fish and other aquatic animals; provide support, shelter to algae and habitat to same animals, important in cycling of nutrients in the water body. A total number of 07 macrophytes were reported from Deditanals reservoir out of them 6 species of emergent and one

was of submerged type. The phytoplankton play an important role as of primary producers. The Chlorophyreae in dominant group represented by 16 genera and 22 species where, Cyanophytese showed 7 genera and 11 species. Badilariophytese recorded with 4 genera and 5 species. Euglenophytese, with only Baglena acus. Dinophytese

The reservoir is also secondarily being used for capture fathery, important major carps, comman carp, Chinese carp 17 species of squatic birds were reported in the vicinity of Doddanala reservair.

Attempts have been made to observe the socialogy of macrophytes, phytoplankton, fish and bird diversity to obtain the haastine data from June 2013 to May 2015. Rey Words: "Phytomeciology, writened, Doddanala reserveir, Sangli district, macrophytes,

Phytoplankton, fishes and birds.

INTRODUCTION:

Aquaric biodiversity has a lot of seathetic and economic value and is largely responsible for maintaining and supporting overall environmental health of that respective region and ecosystem. The wetlands are suitable habitats for variety of animals, birds and many aquatic plant forms, which form a typical food web and all responsible for several biological products. Patil Alaka (2014) studied biodiversity of Borgaon Wetland of Maharashtra.

Most of the area of the tahail is hard, rocky with small hills and bare plateaus of several kilometers with xeric habitat. The annual rainfall is also scanty since last many years. The average annual rainfall is 501 mm. The agriculture is either rain-fed or well water irrigated. Since last few years the numbers of the bore wells are tremendously increased for agriculture and drinking water, the under ground water table has considerably decreased. All these conditions are increased day by day and the importance of man-made renervoirs in the tahail.

Attempts are made to collect the information and update the biological data of Doddanala reservoir as untouched water body in respect to macrophytes, phytoplankton, fishes and birds which will be of use in atudying and conserving the fresh water resources of our country.

The Doddanalais small village of Jath and 145 km away from district place. In 1977-80 Irrigation Department has constructed earthen dam riveted with stones. The water is used for irrigation also for washing, batting and fishing activities. The reservoir is much influenced by human activities.

MATERIALS AND METHODS: STUDY AREA:

Southern Maharashtra includes Sangli, Satara and Kolhapur districts. Out of these three districts, Sangli district is one of the most important district as far as agricultural development is concerned. Sangli district is situated between 16.46 to 17.1+ N and 73.43 to 75.0+ E latitudes.

Geographically, Sangli district diversified into two zones viz, area adjoining Krishna river basin and eastern drought proce area away from baain with low rainfall and typical arid geographical set up. The overall water level is up to 6 to 7 meters down but varies according to geographical area, strata and location of the particular village. The eastern part of the district shows low fertile soil because of natural set up where man-made reservoirs have because source of irrigation besides the well.

Several limnological studies have been carried out in this region, Some among these are of Hujare (2005), Goel et al.(1988) and Bhosale et al.(1994). Most of the studies were carried out in water bodies of urban area. Sustainable development is only possible with proper management of wetlands.

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LITERARY TOURISM: A GLOBALLY DEVELOPING GENRE

AJIT PACHORE

Department of English, P. D. V. P. Dollege, Tengeon, Dist. Swedi (K.S.)

Australiant Tourismi implies a more purposedul poursey, it is mered for recommission, levers or bosoness purpose. These are varies in Management, Beerges, Dodagrad, Brodinal, April of trans. Howards in Advertisions, Rosens, descenaria damang the workers, pool, erobacies or advects and Detract to a Upp of curbacel business. It may plants, prime of the followed news and bots of their authors. Valit their bosons and liber grower sees. It is a more plants of the followed news and bots of their authors. Valit their bosons and liber grower sees. It is a more plants of the followed news and bots of their authors. Valit their bosons and liber grower sees. It is a more plants of the followed news and bots of their authors. Valit their bosons and liber grower sees. It is a more plants of the followed news and bots of their authors. The followed the graves are a liber grower sees. It is a more plants for more than a transfer of the followed set and their section of the state of the followed of the liber plants and there are a liber by the followed of the section of the state of the followed of the sector plants and the sector of the state of the followed of the sector of the state of the state of the followed of the followed of the sector of the sector of the followed the sector of the followed the followed of the follow

Introductions

The terms tourises and travel are sometimes used interchangestily. Tourism omplies a more purposeful journey. It is travel for recreational, leisure or business purpose. It has become a popular global leistate activity. " The word "tour" is derived from Latin Sernary" and the Greek Tornes' meaning. Is latte as niede', the movement around a central gains as taxis". This meaning changed is modern English. to represent lune's curst. A circle represents strating points, which ultimately return backs to its beginning. There also a sircle, a tour represents a journey that is a round trip, i.e. the act of leaving and then returning to the original marting pullet, and therefore one who takes such a journey can be called a muriet. In this way "Imprison is temporary, short term movement of people to destination statude the place where they normally five and work and three activities during the stay at each destination. It includes movements for all purposes". This definition of tourism is made by Tourism Secury of England in 1976, in 1981 the Intermetation Association of Scientific Report in Tourism defined tourism in terms of particular activities achoused by choice and underraises suspide the busine.

There are various types of touctane c.g. Educational. Medical, Apteultural Environmental, Adventurous, Sports, Historical, Strangement, Heritage, Zcological, Seligious and Literary est. There are essential requirement for mortises. They are time, money, mobility and mutivation

Remodeys "Literary Tourism' is another discussed among the writers, posts, critics and

dors all over the world of spransy languages spoken by them. Liberary sources is a type of output nurses. It deals with plants and events from fictuous) texts as well as the lives of their authors. It includes a fictional character, visit to a phase associated with a movel or movelist, each as their house, or slatting poer's grave. According to various achilars and critics literary searises in a contemporary kind of secular pilgrimage. These is also long distance walking makes samelated with written, each as Thomas Mandy Way. Trastus Hardy (1840-1928), 19th sectory rereduct's flottenal work is considered as into Wannes Royala'. He connectationd his native Wenners by giving a benchscope of a beautiful penimuma of planes, people, history, churters, narrownitions, and superstitions etc. Literacy nomiats are specifically interested in here places have influenced writing and or the same time have writing has created place. In order to become a literary institut we must love bunder and we should develop impaintive mindset. These are various literary guides, maps, tours to help the iourist on his or her way. There are also many moments associated with wester's birth or literary encour, and their house also.

Occusively the most hierary tourism is focustil on famous works, soors madern works. They are written to specifically promote naurhan not called tourism detion. Modern tourisms fation can include travel guides within the story showing readers now in waits the real phones in the firmenal tales.

The author like Dr. Mathharpon Paul erors a travelogue titled as its illusir-spears's England' - Dr. Paul, being a prolessor of Rightsh Restature visited England as a journey sets the literary bourist. Dr. Pasif's ensuranter with Ragland is reminder for the generations

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सांस्कृतिक व साहित्यिक पर्यटनासाठी पूर्वाण्यासाधी आवश्यकता

ात्र के सामने भगवा कियम के सामनाताक प्रादीत कार्युप्रतन विद्यार आपनी ,काराष्ट्र, भगवद drtatobagigmail.com.

来自己的行动。

वर्षटन दा धालातील नगवराण आवशास नगवना आती प्रथट रोजपार पिपिती आणि नोगवारी असिंग किया ही नईटन अवसायत्वती वैसिन्दर्य क्रेन्ड परित्र वेशाला परशीस प्रवन दिख्यो विस्तिन देशाल्यांत विभिन्न आती -यर्थ सन्द्रिया लोकाम्पर्य देशाल्यांत प्रथम प्रवेदनापुळे प्रयुत्त पेते देशालर्थत आणि आस्टरप्रदीय साथज्यक पर्यटन सावसाराषुळे असंहदराज होते

पर्वटन जरेक हेतूने कीने जाते पिताल मटकती, करमपूक जारांग्याच्या कारणासाती, त्राण्यास व्हणून, निव्वक जानंदासाती जान जनेकरिय हेतूने पर्वटन की जानंदासाती जापत प्रताजाची माहिरियक पर्वटन की पर्वटनाची जापत प्रताजाची की जारोंग.

HERENCE:

वारकृतिक अवना साहित्यिक हेठ, तेजून करावमाध्या घर्यटनासाठी खबदिउ स्थळांवा पूर्याप्रास करने प्रध्येथे जसते.

entitute uteft:

परद्धा गणांधवाणाणी देशिशांधिक आणि वर्णनात्मक वांगोधन वीग्रीचा वापर करेता आहे सांस्कृतिक पर्यटनात गळकोट पुर्द्रकोट किल्ले विविध पंतालयेक लेगी प्राथा मणावेश जातो तर गाहित्यिक पर्यटनात पुपालि गाहित्यकार्थ निवालयमान, सम्मनी परिवार त्यांथ्या साहित्यात आग्रीन प्रधानेनी करती प्राथा आग्रांव होता प्रांथ्य अभ्याक देशियांग्रिक व क्षेत्राच्यक प्रतिने काम्बा लागानी, च्यमून प्रस्तुत गांधनिकपालारी ऐतिहासिक व क्षेत्राचक वांग्रीचन प्रोयीचा वापर करण्याने वाला वार्ग.

संशोधनाचे स्थ'यः

सांस्कृतिक ध्वेटन आणि साहित्विक ध्वेटन या दोग्ही बीतनील सिगारेंचा अध्यक्ष पुसंद जातेत. पर्यात सुप्रसित्रे साइग्रेलिक तथा आसीत्वकृतीयारं सावस्तोप्त्रां संवेश्तरवरण साइग्रेलिक तथा जसलेख्या सावस्तायित साहन्द कलाइन्ती दिस्तीस संवेल्या जस्तात त्यानुवे त्याच्या साहित्वकृतीं सं संवेल्या प्रार्थापा दर्ध्व प्राप्त दांती प्रयत् सहायी साहित्यातील साव प्रात्वेव्यर दांती निर्दितंती प्रार्थियातील साव प्रात्वेव्यर दांती निर्दितंती प्रार्थियातील साव प्रात्वेव्यर दांती निर्दितंती प्रार्थियाती ही साइग्रेलिक साहस स्वपूर्ण दर्ज प्रार्थ्व प्रात्व साइग्रेलिक साहस स्वपूर्ण दर्ज या प्रथानी निर्विती येथे प्रात्वी ते जावदी जिल्हा पूर्ण दे स्वयं साइग्रुलिक दार्थिक कर्तन साहित्यक प्रारंग्व स्वयं साइग्रुलिक दार्थिक कर्तन साहित्यक प्रारंग्व स्वयं साइग्रुलिक दार्थिक कर्तन साहित्यक प्रारंग्व स्वयं साइग्रुलिक व्यक्तिक कर्तन साहित्यक प्रारंग्व कर्तन साहमूच गणको जाति सीवायात, सांस्कृतिक कर्तन साहित्यिक स्वदेश्वराथ्वा विचारेन्द्रा प्रमाधिका नित्यत्वेत्या जलावत

गारंगुतिक पर्यटन दरवर्षी हथाओ तोक करत असतातर पण विकिन्न सारंगुतिक कारणांना नेटी देवून्सी संबंधित स्वात्मकाला त्यांना कार्यास सरमाने पर्यटनाथा नियाक जागद व अर्थातीयाने समापान विकार नाही या सांप्रशास्त्रिये प्रकान करन्याआपी सांप्रृतिक व साहित्यिक प्रमाटनाली प्रायया करन्याया प्रतान सक्ष

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आगाव्या गानते सारकृतिक व भगीरेतिक वारसा असलेल्या व्यावांचा उताविक काल्युमांदेव प्रथती करीत येद देशे अल्याजे सारकृतिक क्रयवा साहित्यिक प्रयोग्य तोय

गास्त्रतिक पर्वद्रणावाचे वालिक स्वार्थ वदा गरिदे समिए, पर्व सम्माधिकवळे इत्यादी किल्ले वायवले सागरि किल्ले गुईकोट किल्ले इत्यादी, लेनी सामवर्थ जीपसाधिक व्यवक कांचून स्वान हेलेल्या की. वेत क हिंदू यर्ग अस्वदेशील पुराणकाचा समावेश होती लेग्याच्या साम्म्रुजिक प्रवेतच्या दिवास प्रस्तुत कोमनिक्याच्या हेलुक्रम्यामाती करू.

महरसंख्यातील लोगी सारकृतिक - सम्हितिसक मर्गटन

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Vidyawarta ८. कर वृक्तवेगिरीचे प्रमाण कमी होईल.

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९. जीएसटी करामुळे भारतीयांची एकसंघ बाजारपेठ अशी प्रतिमा निर्माण रोईल

१०, जीएसटी करामळे प्रादेशिक असमतोल कमी होईल.

सारीश

वस्तू व सेवा कर प्रणालीमुळे व्यवसाय क्वी होण्यास भदत होईल, तसेच हा कर ज्या राज्यात वस्तुची विकी होणार आहे. त्या राज्याला कर मिळणार असल्याने अनेक राज्यांच्या महमुला मध्ये वाढ होणार आहे. तसेच संपूर्ण देशात एकच अप्रत्यक्ष कर पध्टती राहणार आहे. या करामुळे प्राष्टकांना बहसंख्य वस्तु व सेवा स्वस्त मिळतील, सरकारता कर प्रशासन करणे सोपे होणार आहे. कारण ही कर पश्चती ऑनलाईन पश दतीने राजवली जाणार आहे त्यामुळे कर चुकवेगिरी कमी होईल. एकंदरीत प्राहक, उद्योजक व सरकार अशा सर्वाच्या दुष्टिने वस्तु व सेवा कर पहती लाभवयक उरेल.

संदर्भ -

http://www.cbec.gov.in

२. योजना मासिक, ऑगस्ट २०१७

उद्योजक मासिक, ऑगस्ट २०१७

४. स्पर्धा परीवा मासिक, जुन २०१७

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Financial Inclusive Development and Village Panchayats: A Micro Study

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September 2017 Special Issue

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Dr. Bandu Jayshing Kadam

Assistant Professor in Economics. P.D.V.P. Collage, Tasgaon, Tal: Tasgaon, Dist: Sangali

Introduction

In India, the inclusive approach is not a new concept as Indian development strategies relied on the socialistic pattern of society through economic growth with self reliance, social justice and alleviation of poverty. However, in 2007, India moved to a new strategy focusing on higher economic growth, making it more inclusive. As the economy achieved 5 percent growth rate per annum, the policy makers were anxious about the inclusive growth. As a result, the primary objective of the 11th Five Year Plan was to achieve inclusive growth with development. The Indian economy has entered into the 11" Plan period with an impressive record of economic growth at the end of the 10" Plan. A major weakness of the economy is that the growth is not sufficiently inclusive because it does not cover many groups. Gender inequality persists in India and has an adverse impact on women. The percentage of people living below the poverty line has decreased but the rate of decline in poverty was at a slower pace than the GDP growth rate. Besides, human development indicators such as literacy. education, health, maternal and infant mortality rates have shown steady improvement but with sluggish rates. The present research papers focus on role of village panchayats in the economical inclusive development special reference to Panhala Taluka of Kolhapur district.

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2. VILLAGE PANCHAYATS AND INCLUSIVE DEVELOPMENT IN PANHALA TALUKA OF KOLHAPUR DISTRICT

Dr. Bandu Jayshing Kadam¹

Abstract

In India, the inclusive approach is not a new concept as Indian development strategies relied on the socialistic pattern of society through economic growth with selfreliance, social justice and alleviation of poverty. However, in 2007, India moved to a new strategy focusing on higher economic growth, making it more inclusive. As the economy achieved 5 percent growth rate per annum, the policy makers were anxious about the inclusive growth. As a result, the primary objective of the 11th Five Year Plan was to achieve inclusive growth with development. The Indian economy has entered into the 11th Plan period with an impressive record of economic growth at the end of the 10th Plan. A major weakness of the economy is that the growth is not sufficiently inclusive because it does not cover many groups. Gender inequality persists in India and has an adverse impact on women. The percentage of people living below the poverty line has decreased but the rate of decline in poverty was at a slower pace than the GDP growth rate. Besides, human development indicators such as literacy. education, health, maternal and infant mortality rates have shown steady improvement but with sluggish rates. The present research papers focus on role of village panchayats in the economical inclusive development special reference to Panhala Taluka of Kolhapur district.

Key words: Inclusive Development, Human Development, Village Panchayat, Poverty Alleviation

I. INTRODUCTION:

In India, the inclusive approach is not a new concept as Indian development strategies relied on the socialistic pattern of society through economic growth with selfreliance, social justice and alleviation of poverty. However, in 2007, India moved to a new strategy focusing on higher economic growth, making it more inclusive. As the economy achieved 5 percent growth rate per annum, the policy makers were anxious about the inclusive growth. As a result, the primary objective of the 11th Five Year Plan was to achieve inclusive growth with development. The Indian economy has entered into the 11th Plan period with an impressive record of economic growth at the end of

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FUTURE OF CO-OPERATIVES IN A GLOBALISED ENVIRONMENT

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1. INTRODUTION

In the prevailing liberafized economic environment it is being recognized that success of co-operative movement is dependent on the attitude, mind set and dedication of co-operative leaders, members and staff engaged in them. Under this framework of globalised environment, the socio-economic conditions of co-operatives have changed significantly. This change in environment is reflected by new technology parameters; cutthroat competition and high expectations of staff for better services, etc. The private sector concentrates on the maximization of 'profits', while the co-operative sector lays emphasis on maximization of the 'weifare' of the members and are guided by seven co-operative principles and value system.

The approach paper for the 11th five Year Plan highlights the need to restructure policies to achieve a new vision based on faster, more broad based and inclusive economic growth. The approach paper aims at to keep the Indian economy on a high sustained growth rate of about 10% by the year 2012 along with a target for an annual growth rate of 4% for the agriculture sector.

2. GLOBALISATION AND ITS IMPACT

Various studies have shown that under the prevailing globalised environment, socioeconomic inequalities have increased among classes and sections of society over a period of years. A study by Asian Development Bank has estimated that rural inequalities as measured

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by Gini coefficient have increased in India. From 0.3183 in 1993 to 0.3502 in 2004. This scenario is indeed, disturbing particularly for the cooperative leadership which have all along been advocating for an equitable distribution of rising incomes and wealth among all sections of society. In the context of increasing economic and social inequalities, questions are being asked about globalization at what cost ? Here cost implies loss of employment opportunities due to mergers and acquisition of firm and companies and doption of capital intensive technology with a bias for replacement of labour by capital.

3. EVOLVING A STRATEGY BY CO-OPERATIVES

Under the prevailing scenario of corporate governance, co-operative leadership has to chalk out an innovative strategy to face the emerging challenges of globalization. At the same time they have to work out a promotional strategy for a faster, broad based and an inclusive growth rate. The broad components of such a strategy could incorporate the following elements :

 Promotion of professionalism among various tiers of an organization through appropri ate education and training programmes;

 Building up of a strong financial resource base including its capacity for raising financial resources from members and various institutions;

Implementation of information technology;

 Control on unwanted management and transaction costs;

 Evolving financial and managerial incentives for the employees in the from of promotions, compensation and career advancement;

 Expansion of the organization within the parameters of legal provisions;

Need to bring strong internal control system as also rist management.

 The co-operatives should not impose income tax on their profit. The co-operative

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CHALLENGES BEFORE CO-OPERATIVE MOVEMENT AFTER GLOBALIZATION ERA

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_REFERENCES

INTRODUCATION :-

Co-operation occupies an important place in the Indian economy. Perhaps no other country in the world is the co-operative movement as large and as diverse as it is India. There is almost no sector left untouched by the co-operative movement. The successive Fiveyear plans looked upon the co-operation movement as the balancing sector between public sector and the private sector. And the success is evident. Almost 50 percent of the total sugar production in India is contributed by sugar co-operatives and over 60 percent of the total fertilizer distribution in the country is handled by the co-operatives. The consumer cooperatives are slowly becoming the backbone of the public distribution system and the marketing co-operatives are handling agriculture. produce with an outstanding growth rate. The National Co-operative Development Corporation(NCDC), a statutory body was set up in 1963 by the Union ministry of Civil Supplies and Co-operation, to promote the co-operative movement in India. Further there is the Indian Farmers Fertilizer Co-operative LTD (IFFCO). which has been successful in setting up an effective marketing network in most of the states for selling modern farming technology instead of fertilizers alone. The operations of IFFCO are handled through its more than 30,000 member Co-operative Marketing Federation

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(NAFED) has over 5000 marketing societies. These societies operate at the local wholesale market level and handle agricultural produce. Thus the farmers have a market for their produce right at their door-step. A market which assures them reasonable returns and guaranteed payments. In India we find that the states of Maharashtra and Gujarat are Well Developed. Whereas the states of Andhra Pradesh, Rajasthan and Karnataka have shown remarkable progress in the Co-operative movement and there is a vast potential for the development of Co-operative in the remaining states. Co-operatives today are committed to securing an improvement in the quality of life of a vast majority of Indian people.

DEFINITION OF CO-OPERATIVE MOVEMENT :-Co-operative movement can be define as a "Voluntary movement of the people, carried out democratically by pooling together their resources or carrying on the given activity, with the purpose of achieving or securing certain benefits or advantage which given to people cannot get individually and with the purpose of promoting certain virtue and values such as self help, mutual help, self reliance and general goods of all."

HISTORICAL PROFILE OF CO-OPERATIVE MOVEMENT IN INDIA :-

Around the world modern co-operatives have developed for over 200 years. Co-operative institutions exist all over the world providing essential services which would otherwise be unattainable. In many Third World countries, Cooperatives such as credit unions and agricultural organizations have been very successful in helping people to provide for themselves where private and other corporate capitals do not see high proitalibility. In 90 countries of the world, over 700 million individuals are members of Cooperative institutions. Globally, Co-operatives have been able to elevate its position as a powerful economic model. In some countries they are a sizeable force within the national economy. During the British rule Nicholson a

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वस्तू व सेवा कर (GST) : भारत

प्रा. जालोंदर आनंदराव यादव, सहयोगी प्राध्यापक, . अयंशास्त्र विभाग, पद्मभूषण डॉ. वसंतराक्दादा पाटौल महाविद्यालय, तासगाव.

Withinking

१.१. प्रास्ताविक :-

भारत हा जागतिक महासता बनव्याची क्षमता आसणात देश असून त्या दिशेने देशाची वाटचाल सुरु आहे. स्वांतप्र्यांतर काळात भारत सरकारने जलद आधिक विकासासाठी पंचवार्षिक योननांचा अवलंब केल देशाच्या विकासाची गती कभो वाळविता येतेन पांचा विधार केला. त्याचवरोवर देशाच्या शेती, उद्योग व सेवा केवात आमूलाप्र बहल पडवून आणण्याचा प्रयत्न केला. त्यासाठी सरकारला जनेक फ्रांतीकारी घोरणात्मक निर्णय प्र्याये लगले. १९९१ ज्या आविक सुधारणेनंतरची एक ऐतिहासोक सुधारणा म्हणून वस्तू व सेवा कर सुधारणं विधेयकाचा उल्लेख करावा लगेल. भारत सरकारने १ जूने २०१७ पासून वस्तू य सेवा कर प्रचाली संपूर्ण देशासाठी सुरु केली. प्रस्तुत शोधनिवंघात जीएसटी मुळे भारतीय आर्थवयस्थंत होणा-या परिवर्णनाचा अभ्यास करण्याचा प्रथन करण्यात आला आहे.

१.२ संग्रीधनाची उहिष्टचे :-

 चस्तू व सेवा कर (GST) प्रणालीची संकल्पना समनावृत घेणे.

 भारतात बस्तू व सेवा कर पश्चतीचा इतिहास आणून येणे.

३. यस्तु व सेवा कराच्या वॅशिष्ट्यांचा अभ्यास करणे.

४. वस्तू व सेवा कर प्रणालीच्या गुणदोषांची घर्या करणे.
५. वस्तू व सेवा कर पच्यतीतील उणिवा दूर करण्याचे उपाय स्पष्ट करणे.

१.३ जम्पास पध्दती :-

भारत हा खंडप्राय देश आहे. देशात २९ घटक राज्ये व ९

Vidyawarta September 2017 Special Issue 0178

केंद्रशासीस प्रदेश आहेत. आता पर्यंत प्रत्येक राज्यातील कर हे वेगवेगळे होते त्यामुळे एकरच देशात एकाच वस्तूचे वेगवेगळ्या राज्यात वेगवेगळे दर होते. एकसंघ भारताच्या दृष्टीने हा तसा विचार करता विरोधांपास होता. तेका संपूर्ण देशभर एफ देश एक कर या उक्तो प्रयाणे भारत सरकारने कर सुधारणंतील एक कांतीकारी पाठल टाकून बस्तू व सेवा कर प्रणाली सुरु केली आहे. हो कर प्रध्वती धारताच्या संदर्भात काथ परिवर्तन करु शकेल तसंच त्याचे गुज व अवगुण यांचा अभ्यास करण्याच्या हेतूने हा शोध निबंध तयार करण्यात आस्त आहे. देशाच्या कर रचनेच्या इतिहासातील एक क्रांतीकारी सुधारणा च त्यातून एक संच पारताची अनुमूती हे या अभ्यासात्ते मुहीतक आहे. प्रस्तूत शोध निबंधात प्रामुख्याने दुख्यम साधन स्वम्पग्रीचा वापर केला असून अर्थशास्त्रातील पुस्तके, संदर्भ ग्रंथ, नियतकालीके च विविध वर्तमानपन्नतील लेखाचा आधार येथून तपार करण्यात आला आहे. १-४ भारतीय कर प्रवद्ती :-

सध्याच्या कल्याणकारी राज्याच्या कल्पनेत सरकारला अनेकविध कार्य पार पाठायी लागतात. त्यामुळे सरकारच्या कार्याचा व्यय दिवसेंदेवस वाहत असलेला दिसून येतो. परिषामो सरकारच्या प्राचांत्रांगां बाढ होत आहे व हा खर्च भागविण्णासाठी उत्पन्न वार्वविण्याचा पा विक्रविण्णाचा प्रयत्न करावा लागतो. कर हे सरकारच्या उत्पन्नाचे प्रमुख साधन आहे. अज्यती सरकारच्या एकुल उत्पन्नाचेकी ८०% उत्पन्न हे करापासून प्राप्त होत आहे. कर उद्यकारणी करोत असताना प्राहक वैद्योभूत मानून कर प्रणाली तथार कराणी लागते. ससेच कर रचना आदर्श्वत असाधी. त्यामध्ये समता, सोयोस्करता, निश्चितता व वितव्ययता या तत्वाचा कॉर्याकार केलेला असावा. अन्यचा कर पुकवेगोरी वाहते. झण्डाचार, काठापैसा प्रामध्ये वाढ होण्याची राज्यता असले.

भारतीय कर रचनेत प्रत्यक्ष व अप्रत्यक्ष करांचा समावेश होतो. सरकारने अप्रत्यक्ष कर सुधारणा करण्यासाठी वस्तृ व सेवा घंट विवेचक मंतृर करुन हा कर लागू करण्याल आला त्यापूची अप्रत्यक्ष करात केंद्र सरकारचे अवकारों कर, संया कर, आंतरिका अचकारी कर, आंतिरिका आणि विशेष सोया कर केंद्रोय अधिभार इ. करांचा समावेश होता हे सर्व कर रह होणार आतेत. तर राज्य सरकारचे विक्रोकर खचवा मूल्यवर्धित कर (खेट), करमणूक कर, स्थानिक स्थाज्य संस्था कर (एल.की.टी.) त्यारिज्यव प्रवेश कर, ऐपाराम कर, लोटरो-मटका, जुगावरोल कर, जाहिरातीवरील कर जाकारणी आणि विधिध अधिभार इ. करांचा समावेश होता. हे सर्व रह होयून जोएसटी हा एकमेथ प्रयांग असेल.

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Human Resource Development In Nandurbar District, Maharashtra.

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ABSTRACT: .

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Human is the main impact factor of natural resources and natural resources has need the qualitative human resource for the proper utilization and better management of natural resources and also be affected the development of economical condition of the specific country. This paper is based on secondary data collected from census of India (2011), population of Nandurbar district. The study highlighted that, the human resource development is uneven distributed in the Nandurbar District due to the uneven distribution of natural resources and also shows that, co-relation of human resource development in collaboration with natural resources,

INTRODUCTION:

Human resource is more important for the economic development as well as sustainable development. The word 'Development' also implies of 'growth' and 'change' for the betterment as soon as improvement in regional level. There are so many indicators and it is very difficult to take all the indicators of human resource development. It is found that the planning for development is generally done at the macro level. The quality of human resource is determined on technological, social, cultural and economical condition. The human resource development is presented with improving productivity with quality development an achieving aims in a dynamic economical as well as social environment. This will be also enable to get a proper human resource development plan.



STUDY AREA:-

Nandurbar district is located in the Northern part of Maharashtra state, lies between 21°00 to 22°03 degree North latitude and 73°31 to 74°32 degree Eastern longitude. The district comprises of 6 tehsils namely Nandurbar, Navapur, Akkalkuva, Shahada, Taloda and Akrani. Under the Nandurbar Zilla Parishad jurisdiction, 956 villages are covered through 6 panchayat Samities and 501 Gram Panchayats. The variation in relief ranges from the pinnacles and high plateaus of main Satpuda range having height over 3000 feet above mean sea level to the subdued basin of the Nira river in Phaltan tahasils with the average height of about 1000 feet above mean sea level. The climate of the district is hot and dry having average annual rainfall of 872 mm. AIMS AND OBJECTIVES:

The present paper has main objective to find the levels of human resource development and some objectives are fallows.

- To highlighted the human resources in terms of quality and quantity in the study region. 1)
- To find out the levels of human resource development in the study region at the tabsil level. 2) 3)
- To suggest the planning strategies for improving the level of human resource development in the study region.
- DATABASE AND METHODOLOGY:

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AGRO TOURISM: A SUSTAINABLE DEVELOPMENT FOR RURAL AREAS OF INDIA; WITH SPECIAL REFERENCE TO MAHARASHTRA

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Abstract:

The urban population having mots in villages always have had the currently to inam about sources of food, plants, minutes, new materials like wood, handscrafts, languages, culture, tradition, dresses and rural lifestyle. These changes have generated new ideas as well as approaches to insure and recreation. These ideas and approaches have powel path towards rural and ageo sourian development. Ages tourism is complimentary to traditional opticultural activities. It is an opportunitely for furnees to use the available resources on a diversified and innovative way. It creates a well own own situation to furnees to use the available resources on a diversified and innovative used is creaters a well own own own situation to farmers as well as tourists. Farmers earn better form innovative use of nonlable resources and the fouriest can only village life and nature in an affordable proces. Not only is this, the villages also benefited due to the development of ages tourism. In spite of graving ages tourism, the fact remains that the government singuport through appropriate and conductive pictures for ages tourism development is lacking and government should give priority to ages tourism business in Maharashtra through appropriate policy measures.

Key wards - Agro tourism, roral life, rural recreation.

Introduction:

Touriam is termed as an instrument for employment generation, poverty alleviation and sustainable human development. During 1999-2000, direct employment created by tourism was 15.5 million. Besides, tourism also prossures nutional integration, international understanding and supports head handicrafts and cultural activities. During 2000, the number of foreign tourists that visited India was 26.41 loc. India's share in world tour market is just 0.38 percent. With this major share, foreign exchange earned is Rs.14,475 crores. The urban population having roots in villages always have had the curimity to learn about sources of food, plants, animals, raw materials like wood, tuesticuits, longuages, culture, tradition. docuses and rural lifestyle. Agro-Tauriam which revolve's around farmers, villages and agriculture has the capacity to antialy the curionity of this segment of population.

thusy surbons population is learning neurofs nature. Because of natural environment to always sway from busy life. Hirds, animals, crops, mountains, water bodies, villages provide totally different atmosphere to urban population in which they can forget their busy urban life. Villages provide recreational opportunities to all age groups i.e. children young, middle and old age, male, female, in total to the whole family at a cheaper cost. Rural games, festivals, foot, dress and the nature provides variety of entertainment to the entire family. Agro toariam, in which unirists see and participate in traditional agricultural practices without destroying the ecosystems, the host bases. Promotion of Agro-tourism involves some more

important stakeholders namely Ministry of Agriculture and line departments at state and central governments and farmers. Promotion of Agro-Tourism needs conceptual convergence with Rural Tourism, Eco-Tourism, Health Tourism, Adventure Tourism and culinary adventures Some of the important advantages of Agro - Tourism are it brings major primary sector agriculture closer to major service sector tourism. This convergence is expected to create with-win situation for both the sectors. Tourism sector has potential to enlarge. Agriculture sector has the capacity to absorb expansion in tourism Sector.

Scope of Agro - Tourism:

Agro-Tourism has great scope in the present study for the following reasons:

1. An inexpensive gateway

2. Curiosity about the farming industry and life style

 Strong demand for wholesome family oriented recreational activities

- 4. Health consciousness of urban population and finding solace with nature friendly
- 5. Desire for peace and tranquillity
- 6. Interest in natural environment
- 7. Rural recreation

Objectives:

- To examine the importance of agro-touriam development in Maharashtra.
- To study challenges before agro tourism in Maharushtra

Methodalogy:

 The research is will be mainly carried through desk research i.e., secondary sources like maps, photographs, books, internet web sites.

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षद्भभूषण डॉ. वर्शतरावदादा पालील महाविदयालय तासमांव

आज मारतातील नजा पिढीता पाकोरीकद जीवनाची समय सापसी आहे त्याला मोकला हवास ध्यापता विकतो तो उन्हालयाच्या दिवसात जरा। सर्व वकव्यवहारावरील राभवाण चयाव म्हण्डले साहली निसर्थ पर्यटन आणि दुर्भभर्मती बासाती 1989 थ्या सुपारास महाराष्ट्र सालनाने सुरू केले ईको दुरीवय आणि साहस दुरीक्षम ही कल्पना मेल्या पंघरा वर्षात खन्या अर्थाने रुजु सापली आहे. या विश्वर्ग दर्शन अध्यत्रा किल्लो पर्यटनातुन समस्ताला विजते विचारांची सम्बदी एक अभोव्या युष्टीकोन् धाउरसीयणा, त्रवतंत्रज्ञा आणि संवेदनशीलता एक this. गताराष्ट्रातल्या मराती गाणसानं विजिधनपतीच्या नेतुलाव्याली हिंदवी स्वराज्याचा जययोष केला आणि उमा महाराष्ट्र छत्रपतीव्या पातीशी जमा सहिला, वाचे कारण प्रत्रपती शिवाजी गहाराजांच्या जन्मास्वा अगोदरमा ३५० वर्षांचा इतिहास पाहिला, वापला वर जाजडी ल्पा घटनाबद्त मनझ विरस्कारता निर्माण होते. यवनीसाताविशांने जन्माय आणि awrundt परिशिमा माठली होती. देव, धर्म आणि मानव बांधी रिश्वती अल्पांत शोधनीय झाली होती. वास्तविक ववनी सत्ता मराती माणसांच्या पराकमांवर चालल्या होत्या असे म्हटले तरी वावने होणार नाही. आगण्यावले शुरत्य दुसऱ्यासाठी खनी होव होते आगडी आमचे स्वत्व इरदून मुलायगिरी स्विकारली होती ज्या काठी हाताच्या बोटावर मोजणाऱ्या पराकगी सरदार्शना जो सन्मान निजव होता. वो बेगजी व्याभि बादशाहच्या मजीवरचा होता. बादशाहाची गैरसम्ब झाली 30 च्यांन बादशाहताती पराकगांची कारत खाल्ली त्यालाही प्रसंगानुरुप त्याच्या उत्तवारीच्या पात्याखाली माना ध्याना लागत होत्या लांन एक तर मरण यातना किंवा मूत्यूस सामोरे जम्बे लागे तेंचा ही विवती बदलावी म्हणून प्रावयतीनी हिंदवी स्वराज्य जपास्ते.

या हिंदवी स्वराज्याचा जयपोष गराराष्ट्राच्या दन्या कोन्वात सीनलो वर्षापूर्वी प्रजयतीका जय घोष करीत पुत्रला वा स्वराजाच्या मुलायार होता ढॉनरी जाणि सागरी दुर्ग जाज पहाराष्ट्रात जसलेल्या 361 हुन अधिक गढ कोट किल्ले आजही से प्रजयतीच्या प्रपत्ननिर्वाची आणि गर्द मारक्यांच्या अजीव पराक्रमांची पाव्य आपणासनोर जभी करता आहेत महाराष्ट्रधतित या विधिव दुर्वाचे, दुर्गव चौधोलिव रच्यान आणि पत्रका रचना यातुन शिवकालीन रच्यापत्य सारवाची विस्तववकीत करणारी दुरदृष्टी जाणारते या ऐतिहासिक दुर्यांची प्रमंती करणारी आजही तरुणाई त्याच्यांपासून फिवनवी स्पूर्ती प्रेश्व अचली तरुणाई त्याच्यांपासून फिवनवी स्पूर्ती प्रेश्व अचलाये दिसते आज इतिहास झालेल्या पुर्वकाजच्या या दुर्लद दुर्यांनीव एक काळी जामचा इतिहास घडविता होता त्याची साथ तेथील एक एक विथा देत पाठ्यो बाहे.

पर्यटनाताठी पेरीस करती आहे. वांगली जिल्हवभीत दुर्गय दर्शनासाती हे विहंयच दर्शन 'आग्दास भारतावर थ्रेम करण्यावर सबैव प्ररीत करेल वातील कारी किल्ले बेलांग, बुसंद जाणि गर्दीवचा बाहे दर दहा-दहा कोसावर एखादा तथी किल्ला मादनगोव सहज मादनत नाही हो किल्यांधा इतिहास मॅझेट नॉंसी आणि त्याच रनसज्यातल योगदान' हे नम्पा पिढीला कजावचे अनील आणि त्यांचे जीवन समृब्द व्हायचे असेल तर त्याने पर्यटन करुन राजा विमानप्रयाणि स्पुती स्वामी वासाती किल्ले पर्यटन जानश्यक जाज कारण्याला संपूर्ण किल्यांची घमती करता येण हास्य नावी तेवत किमान – सांधली जिल्ह्यातील किल्यांधी आपण प्रमंती करावी व वा किल्ल्यावर कर्च पोहावता येते, तो प्रदेश किनी महत्वाचा होता त्यावेळी माणसं धत्रपतीच्या हाकेंत्ररही प्राणावर बेतण्डवा संकटाना राताय धातीत करी लढत जरातील त्यांची महती कचेल जानि। आपण्डाला राष्ट्र स्वाणासाठी प्रोरसाहन विजेल या किल्ल्यांचे महत्व सांगतांना रामचंद्रपंत अमाला लिहलात, संपुर्ण राज्यांचे सार तो दुर्ग विंकल्लेच दुर्ग नसता मीकवा देश परचक मेसाव निराक्षय, प्रमाधन्त होऊन देश उप्तरत होता, देश तम्बरत झाल्यावर राज्य कोणारा माणावे या करिता पूर्वी जे.जे. राजे झाले त्यांनी कामी देशांसाठी दुर्ववायून को को देश शाश्वक करून घोताल आणि वाले परमक संबद दुर्गाबयावर परिदार कोले रिलकालीन किल्ले म्हणजे प्राणस्थाम ही भावना रार्वत्र होती म्हणूनच छत्रपतीनी किल्ले सांधतान्त

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भारतातील कृषक समाज: वाव्हाने 226

सेंद्रीय शोतीची संकल्पना व सेंद्रीय शोतीसमोरील आव्हाने

विनोदकुमार धोंडीराम कुंभार, सहाय्यक प्राध्यापक, समाजशाख विभाग, पी.डी.व्ही.पी.महाविद्यालय,तासगांव. मोबाईल: ८२७५३७७९२२, ९९७५५६४६२२

ग्रस्ताविक:--

पूर्वी भारतात सेंद्रीय शैतीसाठी पूरक परिस्थिती होती परंतु हरित कंतीनंतर भातामध्ये रासायनिक शोती करण्याकडे शोतक—यांचा कस वाढला व या हमायनिक शेतीचा मानवाच्या आरोग्यावर दुष्परिणाम होऊ लागला. मानवाची हेनप्रतिकारक क्षमता कमी होऊन त्याला अनेक रोगांना बळी पडावे लागत आहे. हे संकट टाळण्यासाठी सेंद्रीय शेती ही काळाची गरज बनली आहे. अमेरीकेमध्ये १९८० पासून सेंद्रीय शोतीवर भर दिला जातो. त्याचप्रमाणे जर्मनी, फान्स, जपान, इटली हे देशही यावरती लक्ष केंद्रीत करीत आहेत. सिक्कीम हे १०० : सेंद्रीय रोवी करणारे भारतातील पहिले राज्य आहे. सेंद्रीय शेती ही एक चळवळ होणे आवश्यक आहे. सेंद्रीय शोतीमध्ये शोतीमधील परिस्थिती सकायत्मक करण्याची क्ष्मता आहे. इंटरनॅशनल फेडरेशन ऑफ ऑर्गेविक एग्रीकल्चर मून्हमेंट ;ण्य्वद ये सेंद्रीय शेतीची संकल्पना पुढीलप्रमाणे सांगता येईल.

१. आरोग्याचे तत्व

२.पर्यावरणीय तत्व

३.निष्पश्वतेचे तत्व

४.संगोपनाचे तत्व

या चारही तत्वांचा वापर सेंद्रीय शेतीमध्ये आवश्यक आहे. द्दीष्टे-

१. सेंद्रीय शेतीची संकल्पना अभ्यासणे.

२.सेंद्रीय शेतीची गरज व महत्व अभ्यासणे.

३. सेंद्रीय शेतीसमोरील आव्हानांचा शोध घेणे.

वंशोधनपष्टती—

प्रस्तुत संशोधन लेखासाठी वर्णनात्मक संशोधन पघ्दतीचा वापर करण्यात भोल आहे. तसेच तासगाव व खानापूर तालुक्यातील सेंद्रीय शेती करणा-या ३ रोक रोतक-यांच्या मुलाखती घेण्यात आल्या आहेत. कारण सदयस्थितीत सेंद्रीय शेती हे क्र ^{हा महत्वाचा} विषय असला तरी संशोधकाला सेंद्रीय शेती करणारे खूपच कमी

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Liquid-liquid extraction of thorium(IV) with N-n-heptylaniline from acid media

Rupali R. Pawar⁴ - Vishal J. Suryavanshi⁴ - Suresh T. Salunkhe⁴ - Suresh S. Patil² - Gaupatrao N. Mulik³

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Abstract The extraction behavior of thorium(IV) from sulphuric acid medium with N-a-heptylaniline in xylene. Various parameters like reagent concentration, acid concentration, equilibration time, diverse ions and effect of diluents were studied. Thorium(IV) was selectively extracted and separated from many metal ions. The nature of the extracted species was determined. Thorium(IV) was analyzed from monazite ore and gas mantle.

Keywords Thorium(IV) - Liquid-liquid extraction -H₂SO₄ - N-n-Heptylaniline

Introduction

Thorium is a naturally occurring, radioactive metal. Nowadays thorium is used in nuclear power generation. So it is, the need of time that it should be extracted and finally in pure form. Vary many amines have been used for the extraction of thorium(IV) like Amberlite LA-1 or LA-2 [1]. N-n-octylaniline [2], mixture of N-n-octylaniline and trioctylamine [3], 2-octylaminopyridine [4] and various extractants like di-(2-ethylhexyl) 2-ethylhexyl phosphonate [5], bis(2,4,4-trimethylpentyl) phosphinic acid (Cyanex 272) [6], organo phosphoric compounds from various media [7–15], TODGA in tonic liquids have

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been successfully employed for the recovery of thorium(IV) in industry [16]. Extraction of uranium(VI) and thorium(IV) by triphenylarsine oxide from salicylate media has been carried out [17]. Liquid-liquid extraction of uranium(VI) and thorium(IV) by two open-chain crown ethers with two terminal quinolyl groups in chloroform were studied [18].

Extraction of uranium(VI), zirconium(IV) and thorium(IV) by PC-88A from perchlorate media have been carried out [19]. Extraction of thorium(IV) from nitrate solution by bis-2-(butoxyethylether) was reported [20]. The extraction studies of uranium(VI) and thorium(IV) with TBPO in tolaene from sodium salicylate medium were studied [21]. The extractive separation of thorium(IV) and praseodymium(III) with Cyanex 301 and Cyanex 302 from nitrate medium were studied [22]. The extraction behaviors of uranium(VI), thorium(IV) and lanthanides were studied using Cyanex 923 in toluene from different mineral acid media [23]. Further, high molecular weight amines are also used for the extraction and determination of a variety of other metal ions [24-26].

Previously we have reported the solvent extraction methods for the quantitative extraction of platinum group metals with amines [27–30]. In the present study extraction behavior of thorium(IV) from sulphuric acid media by N-n-heptylaniline is undertaken. Various parameters such as reagent concentration, acid concentration, effect of diluents, phase ratio, shaking period, loading capacity and diverse ions were studied. Separation of thorium(IV) from binary as well as multicomponent mixtures was achieved and also from associated elements in geological and real samples. The proposed method is relatively simple, rapid and selective used for the separation from many metal ions successfully.

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DABCO functionalized dicationic ionic liquid (DDIL): A novel green benchmark in multicomponent synthesis of heterocyclic scaffolds under sustainable reaction conditions



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Approach: GANCO honotomalized some liquids Granting Ultransianal Middleompineent mactives

ABSTRACT

A resvel DASCD functionalized dirationic ionic liquid (DDIL) has been synthesized using diazabicyclo[1.2.2]octane (DABCO). 1.3-dichloro-2-propanol and NABFa in acetonitrile. The IL was fully characterized by 8, NMR and mass spectroscopic techniques. The presence of EF₄ amon in IL was curfirmed by "P NMR and also supported by mass analysis. The TGA analysis showed that the IL is thermally stable up to 160 °C temperature. We demonstrated that the presence of the tertiary nitrogen sites and hydroxyl group in the DCH, network enhances the overall accurity of DDIL. These make them compatible for base catalyzed one put multicomponent synthesis of ortho-amine carbonitriles and 3-methyl-4-arylmethylene-isoxazol-5(4N)-ones under grinding without solvers. In addition the activity of DDIL was also itudied for synthesis of tetrahydrobenzo(b)pynam under ultrasound itradiation in water. Purthermore the DDIL was easily recoverable and recyclable many times with modest decrease in activity. © 2016 Elsevier B.Y. All rights reserved.

1. Introduction

In the annals of heterocyclic chemistry, the academic and industrial research groups have been increasingly focused on the development of multicomponent reactions (MCBr), MCRs can lead to green and robust synthetic methodologies to afford rapid synthesis of small drug-like molecules with several degrees of structural diversity [1–2]. This technique simultaneously engage three or more components in one pot, resulting in formation of complex frameworks that incorporate the ele-

Pents of all the starting materials with good synthetic efficiency [3]. Nowadays, solvent-free reactions have become paradigms of synthetic chemistry [4]. These reactions utilizes alternative energy inputs such as mechanical grinding, ultrasound and microwaves. Among these, mechanical grinding is simple and efficient method of synthesis which combines economic aspects with environmental concerns. The reactions initiated by grinding involves trainfer of very small amount of energy through friction [5]. In the mechanical grinding, solid-state reactions occur more efficiently and more selectively than in the solution phase reactions [6]. This methodology facilitates the organic reactions with high yields, requires stoichiometric amount of reactants, avoids the use of volatile organic solvents, shurt reaction time, and better energy balance with straightforward work-up. The above mentioned benefits offered by mechanical grinding have also been widely used in the field of ionic liquid (ILs) catalyzed MCRs [7].

http://dx.doi.org/10.1016/j.rvallep.2016.10.029 0167-7322/0-2016 Elsevier B.V. All rights reserved. ILs have been recognized as potential new green alternatives to conventional organic solvents for a wide range of synthetic, catalytic, and electrochemical applications [8]. The ILs are characterized by their unique properties, including non-velatility, low inflammability, tunable hydrophobicity, environmental friendly nature, easy recoverability and recyclability [9].

Moreover, it is well known that physical and chemical properties of an IL can be changed by varying the structure of constituent cations and anians. This modification of ILs can dramatically influence the outcome of various reactions [10]. During the past few years a number of dicationic and polycationic ILs, with a large variety of tunable properties, have been explored [11]. The dicationic ILs contain two bead groups, inked by a rigid or flexible spacer [12]. This kind of ILs demonstrate unique features than monocationic ILs and other traditional solvents [13]. Besides the change in the length of the spacer, and the incorporation of functional groups such as thiol, ether, hydroxyl and amino groups in the cations allow the physical properties of the dicationic ILs to be tailored for specific applications [14]. The poly(ethylene glycol)linked dicationic acidic ILs (PEG-DAI(a) [15] and poly(ethylene glycol)linked dicationic acidic ILs (PEG-DAI(a) [16] have been explored as a powerful catalysts for various transformations.

The synthesis of ILs is complicated and often suffers from halogen impurities but hydroxide based ILs now offers the simplest synthetic tool for the preparation of large number of halogen five ILs [17]. Recently we have demonstrated the application of this methodology for the synthesis of multicationic ILs and its applications for MCR under MW [18]. There are several reports for monocationic DABCO based ionic

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REVIEW

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Abstract Over the last 30–40 years, Pd-catalyzed C–C bond-forming reactions have gained immense importance for their use in synthesis of biologically and pharmaceutically important organic fragments. Heterogeneous Pd catalysts supported on porous materials, especially zeolites, have many advantages as they have high surface area with tunable acidity and basicity, hydrophobic and hydrophilic character, shape and size selectivity, as well as chemical and thermal stability. They also offer very easy recovery and reusability. This review covers the literature published on the synthesis and characterization of Pd catalysts supported on zeolites and their applications in various organic transformations.

Keywords Palladium · Heterogeneous catalysis - Supported catalysts · Zeolites - Coupling reactions

1 Introduction

In the last few decades, a new paradigm for the construction of carbon-carbon bonds [1] has enhanced considerably, which has increased the ability of synthetic organic chemists to assemble complex molecular frameworks for many important applications. The transition metal catalysts have the ability to forge carbon-carbon bonds selectively within functionalized and sensitive substrates under comparatively mild reaction conditions [2]. Such catalytic processes have opened new opportunities, particularly in total synthesis of medicinally and biologically important compounds [3]. Among these processes, the Pd-catalyzed cross-coupling reactions such as Mizoroki-Heck [4], Suzuki-Miyaura [5], Negishi [6], Stille [7],

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FULL PAPER



Cellulose-supported N-heterocyclic carbene silver complex with pendant ferrocenyl group for diaryl ether synthesis

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Dajama Radiakat, Department of Chemotry, Shiraji University, Kolkaper, 416004, MS, Jadia, Email, gar, chem@unidiraji.ac.in A cellulose-supported N-heterocyclic carbene Ag(I) complex has been synthesized by covalent grafting of ferrocenyl ionic liquid in the matrix of cellulose followed by metallation with silver oxide. The complex was employed as a heterogeneous catalyst in the synthesis of diaryl ethers. Reactions of a variety of phenols with aryl halides afford corresponding diaryl ethers in moderate to good yields. Recyclability experiments were executed successfully for five consecutive runs.

KEYWORDS

diaryl ether, ferrocene, N-heterocyclic carbene, reusability

1 | INTRODUCTION

N-Heterocyclic carbenes (NHCs) are a versatile class of ancillary ligands that have garnered tremendous attention for their ability to effect various C-C, C-N and C-O bond formations.¹¹¹ This outstanding class of ligands has high activity and selectivity with increased stability towards air and moisture. NHCs allow manipulation of the catalytic performance through adjustment of electronic and steric parameters,^[2] Compared to phosphorus-containing ligands, NHCs tend to bind more strongly with metals leading to stable metal-carbon bonds thereby avoiding the necessity for the use of excess ligand in catalytic reactions.¹³¹ NHC-metal complexes have displayed superior catalytic activities in many useful organic transformations.[4] Insight into homogeneous NHC-metal complex catalytic systems has revealed some basic problems in terms of separation and recycling. This factor coupled with their ability to induce contamination of the ligand residue in products has triggered a flourishing interest in heterogenization of homogeneous NHC-based catalytic systems,151 The built-in heterogeneous nature of NHCs allows for a robust recycling and provides excellent opportunity to prevent the contamination of the ligand thereby decreasing the environmental pollution caused by residual metals in the waste. The field of heterogeneous NHCs has witnessed impressive progress during the past few years.161 Despite tremendous strides, a major driver

of current ground-breaking research is the development of new heterogeneous NHCs with different properties and reactivities.¹¹¹

The recent quest towards green and sustainable development has spurred an extensive interest in the use of renewable bioresources in catalytic technology.171 Cellulose is the most abundant renewable and biodegradable biopolymer with an annual world production of around 500 billion metric tons. Being abundant and outside the human food chain, it represents the most attractive and economic natural feedstock as per green chemistry principles. It is a long-chain linear polymer made up of repeating units of fl-ti-glucose linked by 1,4-glycosidic bonds. It has an unusual structure in which every other glucose monomer is flipped over and packed tightly as extended long chains which imparts rigidity and high tensile strength.¹⁰¹ It is insoluble in water and most common solvents due to strong intramolecular and intermolecular hydrogen bonding between the individual chains.^[9] In addition to the aforementioned properties, its high surface area, non-toxicity, stability in common organic solvents, unlimited availability as a renewable agro-resource and excellent biodegradability make cellulose an excellent renewable biopolymeric support for synthesis of heterogeneous catalysts.^[10] The interesting properties of cellulose spurred us to investigate its feasibility in the synthesis of heterogeneous NHC-transition metal complexes with catalytic potential.

RSC Advances



PAPER

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Application of novel multi-cationic ionic liquids in microwave assisted 2-amino-4H-chromene synthesis†

Arjun Kumbhar,** Sanjay Jadhav,[®] Rajendra Shejwal,^c Gajanan Rashinkar[®] and Rajshri Salunkhe*[®]

Novel multi-cationic liquids containing a mestylene backbone with acetate and methane sulphonate anions have been synthesized. These ionic liquids were used for the synthesis of 2-amino-4H-chromenes. under microwave heating. The effects of nature and amount of ionic liquids on the yield and reaction time were thoroughly investigated. The ionic liquids showed a considerable level of reusability without a significant decrease in catalytic activity. We have successfully combined the advantages of microwave technology with ionic liquids to facilitate the rapid construction of chromene skeletons from readily obtainable and inexpensive materials via a multicomponent strategy.

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DOI: 10.1039/c6ra01062m

www.nc.org/advances

Introduction

Multi-component reactions (MCRs) play an important role in modern synthetic chemistry. As MCRs generally occur in a single pot, exhibit a high atom economy and good selectivity, they provide a powerful tool towards the synthesis of diverse and complex compounds as well as small heterocycles.' Molecules with the chromene structure constitute one of the most interesting class of compounds in organic chemistry due to their biological and pharmacological importance such as antimicrobial," antiviral," antiproliferation," antitumor" and central nervous system activities.* These compounds are also employed in cosmetics, pigments and used as potential biodegradable agrochemicals.7 Generally, 2-amino-4/P-chromenes are synthesized by heating aldehydes, malononitrile and phenols in presence of organic bases like piperiding in organic solvents* and also by several modified procedures using Triton B,* Phase Transfer Catalysts (PTCs)," y-alumina," Preyssler type heteropolyacid (H14[NaP3WarO118])," K2CO2," TiCl4," p-toluenesulfonic acid,10 nanostructured diphosphate Na2CaP2O2,14 and nanosize MgO." Due to the environmentally benign nature of electro-organic synthesis,38 Elinson et al.28 reported the electrocatalytic chain procedure for the preparation of 4H-chromenes by the combined electrolysis of salicylaidehydes and alkyl cynnoacetates in ethanol in an undivided cell. In order to avoid some of the drawbacks of reported methods, the discovery

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references in consects made extension transfer, measurement to

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† Electronic supplementary information (ENI) available: IE, ¹H SME and ¹⁶C SME data of the compounds. See DOI: 10.3079/rstra01063% of a new and efficient catalyst with high potential, short reaction time, recyclability and simple workup procedure is highly desirable.

The research in the field of ionic liquids (ILs) has grown exponentially over the last few decades due to their environmentally friendly nature, non-volatility, recyclability, thermal stability and easy workup.30 One of the most attractive features offered by IL is both the cationic and anionic components can be varied and modified so that liquid properties can be tailored for specific applications. This modification of ILs can result in unique solvent properties that can dramatically influence the outcome of various reactions. The multi-cationic ILs are superior to mono-cationic ILs as they provide more opportunities to tune their physical and chemical properties. Conventional synthesis of II, is complicated and often suffers from halogen impurities. Hydroxide based ILs now offers the simplest synthetic tool for synthesize large number of halogen free ILs. An exchange reaction of the acid with an aqueous hydroxide solution of ILs affords the desired "Task Specific Ionie Liquids ('TSILa)".

Since last few years the microwave beating becomes one of the widely used alternative technique to carry out organic transformations efficiently.³⁷ Due to the ionic character, IL absorb microwave radiations extremely well and transfer of energy is quick by ionic conduction. The transfer of energy is more efficient with increase in temperature. Hence, when ILs are coupled with MW they exhibit dramatic effect on rate enhancement due to synergistic couple.³⁸ In view of the emerging importance of the ILs as reaction media and our general interest in microwave as an energy source for chemical processes,³⁹ we decided to build up a new class of mono, bis and tris imidazolium based ILs containing 1,3,5 alleylidene 2,4,6 trimethyl benzene linkers, where the alkyl arm could be

RSC Advances





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Palladium nanoparticles supported on a titanium dioxide cellulose composite (PdNPs@TiO2-Cell) for ligand-free carbon-carbon cross coupling reactions†

Sanjay Jadhav," Ashutosh Jagdale.^b Santosh Kamble.^c Arjun Kumbhar^{*b} and Rajshri Salunkhe^{*a}

Well-dispersed non-spherical PdNPs with a diameter of 39–45 nm supported on a TiO₂-cellulose composite (PdNPs@TiO₂-Cell can be synthesized by a simple and clean route. The catalyst was well characterized by XRD. FE-SEM, EDS, and TEM techniques. The PdNPs have good dispersity on the TiO₂-Cell support. This results in excellent catalytic activities for the synthesis of triphenyls, acrylates, acetylenes and prochiral letones using low Pd loading (1 molti) at comparatively low temperature. The effects of the nature and amount of bases, nature of solvents, amount of catalyst and the reaction temperature on the activity of PdNPs@TiO₂-Cell were thoroughly investigated. The catalyst showed at least four times reusability without decrease in catalytic activity.

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Introduction

Transition metal catalysis especially palladium catalyzed cross coupling reactions of aromatic halides in the presence of various nucleophiles is strategically important in organic synthesis, it has been widely used for the synthesis of a diverse array of biphenyls, acrylates, acetylenes and prochiral ketones by C-C cross coupling reactions. These compounds have profound importance in chemical, pharmaceutical and biochemical industries.3 Additionally, such compounds are also present in many natural as well as biologically active compounds,2 and are especially interesting in applications for organic light-emitting diodes and chemiluminescence detection systems.3 These compounds have been mostly synthesized by palladium catalyzed Suzuki-Miyaura,* Mizoroki-Heck,* Heck-Matsuda,* Sonogashira-Hagihara,* and carbonylative cross-coupling reactions." Recently, this area of research has attracted great interest because of its high compatibility to a wide variety of functional groups under mild reaction conditions.

Though, most of these transformations have been extensively investigated by homogeneous palladium complexes in

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solution." The separation of metal catalysts from the reaction mixture and their reuse is highly desirable from economical and environmentally point of view.14 Additionally, the homogeneous Pd complexes also undergo deactivation due to the aggregation of Pd during the reactions. In this context, heterogeneous catalysts particularly, the PdNPs supported on suitable solid support has found immense importance for many cross coupling reactions.14 This strategy increases the catalytic activity of Pd and also reduces the amount of metal required for the reaction.43 Several oxides have been used as a support for PdNPs,12 because moderate to high dispersions was obtained on these oxides due to favorable metal-support interactions.** Out of these oxides TiO₂ based materials have found potential applications across many different areas.13 In recent years much like the noble metal nanoparticles, PdNPs supported TiO₂ and Pd supported TiO₄ core shell catalysts have seen an extensive amount of research in methanol reforming," hydrogenation," and photocatabais.10

Biopolymers such as alginate, chitosan, starch, and cellulose has been developed as a most attractive support for immobiliration of many Pd catalysts." The extensive number of -OH groups present in cellulose can facilitate the complexation of TiO₈ to the molecular matrix, and play a significant role in guiding the organization of TiO₂ among cellulose molecules. In addition to this, the use of cellulose has several key advantages, like no additional reducing agents are required." Cellulose also avoids the aggregations of PdNPs, as it acts as the protecting agent similar to other biopolymers." There is binding interaction between cellulose and the metal nanoparticles which provides a platform to PdNPs and helps to stabilize Pd as that of



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[†] Electronic supplementary information (EDE) available: "H and "C NMB data of representative compounds. See DOI: 10.3039/cfra200603



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Full Length Research Article

DIVERSITY OF DUDHEBHAVI RESERVOIR IN SANGLI DISTRICT, MAHARASHTRA (INDIA)

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Department of Botany, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist. Sangli. (M. S.)

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ARTICLE INFO

Key Words:

Biodiversaty Dudhebhavo reservoir, Song'i disovce, Macrophytes, Phytoplanksia

ABSTRACT

The wetlands are mitable habitats for variety of animals, hields and many aquatic plants, which form a typical food web. A total number of 13 manophytes were reported from Dudhabhavi reservoir out of them 8 species of emergent and 5 were of submerged type. In aquatic eccepture, the phytoplankton play an important role of primary producers. The Chlorophyceae is dominant group represented by 15 genera and 20 species where, Cyanophyceae showed 5 genera and 3 species. Bacillatiophyceae reported with 7 geners and 8 species. Eaglenophyceae, with only Englema acur. Dinophyceae recorded with 2 species of 2 genera. The reservoir is secondarily being used for reservoir capture fishery. Important major carps, common carp, Chinase carp fosh and 2 local species occurred in this marrowir. There were 20 species of squatic birds were observed in the vicinity of Dufhebhavi reservoir. Attempts have been made to observe the diversity of macrophytes, phytoplankton, fish and bird diversity to obtain the baseline data from Jane 2013 to May 2015.

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INTRODUCTION

The word bio-diversity is a biological diversity, which refers to the diversity and variation among all living organisms on the earth. Sangli diatrict is one of the most important districts as far as agricultural development in Maharashtra. Sangli district is situated between 16.46 to 17.1° N and 73.43 to 75.0° E latitudes. Geographically, Sangli district shows two zones viz. area adjoining Krishna river basin and eastern droughs prone area away from basin with low rainfall and typical arid geographical set up. The overall water level is up to 6-7 meters down but varies according to geographical area, strata and location of the particular village. The eastern part of the district shows low fertile soil because of natural set up where man-made reservoirs are source of irrigation besides the well.

Dudheblavi reservoir is major irrigation reservoir in Kavthe-Mahankal tahsil. It is about 80 km from district place. It is constructed during 1984. It is constructed during 1984 by the Irrigation Department. Purposely it is constructed for irrigation but now-a-days it is used for fishing activities and for other human activities.

*Curresponding autor: Alaka A. Padil Department of Botany, Padnublushan Dr. Vauntruodada Patil Maharidpulaya Tangaun Dist Sangli. (M. 5.)

MATERIALS AND METHODS

Study Area: The total catchment area is 51.76 sq. km. the total capacity of storage is 630.90 Mcft and dead storage is 18.63 Mcft. Length of dam including alipway is 330 meter having clean overflow type of slipway. The height of dam in 19.33 meter and is of earthen type. The submergence area is 152 hectare. The bottom of reservoir is rocky. Hence reservoir shows very less macrophytes. Reservoir was visited monthly for the period of two consecutive years (June 2013 to July 2015).

Aquatic macrophytes: During every visit, aquatic macrophytes and marginal macrophytes were studied, photographed and collected from reservoir. In laboratory they were identified by using Cooke's 'The Flora of Presidency of Bombay' (1967), Flora of Kolhapur district (Yadav and Sardesai 2002) and other relevant published literature.

Phytoplankton: The phytoplankton were collected using plankton net. It was prepared by using bolting silk No. 125. Total 100 liters of water sample was filtered and concentrate was collected in 200 ml plastic bottle. Two separate sets of concentrated samples were preserved by adding 4% formalin and 1 ml of Lugol's lodine and observed under Olympus



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FAITHFUL PORTRAYAL OF A CONTEMPORARY SOCIETY IN ARAVIND ADIGA'S THE WHITE TIGER

MUKESH SAKHARAM MAHALE

Assistant Professor P D V P College Targron, Dist Saogali.

ABSTRACT

Aravind Adiga is one of the most famous Navelists of India. He became famous with the publication of his very first nevel "The White Tiger". He has won the Man Booker Prize Award for the year 2008. It is a fictional work in which he tries to highlight the grave tones of the contemporary society. He shows disparity between the society in rural and urban parts of India and he is mainly concern with the causes that create huge gap between the societies in rural and urban parts of India. He handles the theme very cleverly. The nevel is written in epistology firm, where narrator writes a letter to Chinese Premier Wen Jlabo, who is espected to visit India. According to the nevelist corruption, traditionalism, and ago-ald social norms are responsible for the disparity in the contemporary society.

Key Words: - TWT- The White Tiger, Dark India, Light India, Black Money, Corruption, Politics, Medical Care, Human Values and Police Department, and Contemporary Society.

INTRODUCTION

Aravind Adiga's The White Tiger (2008) made its appearance on the literary arena of Indian English literature, when Indian society is transforming from age-old set up to its modern version. Its values, loyalty and social norms are changing with the passing time. The novelist tries to highlight the grave current issues of society and the progress our country making in various aspects. He tries to compare the both sides of every aspect very sarcastically, According to The Sunday Telegraph, the novel is "Blazingly Savage and Hrilliant" and yes, it is. The nevelist here tries to present the durkest reality of tuday's Indian succety. It is very hard to accept the facts put-forth by the writer due to its sense of respect for own society and country. But if we take it impartially, we might be agrocing with the writer Aravind Adiga, who presents the facts through the protagonist, Balaram Halwai alias Munna, the son of common rikshaw paller of Laxmangarh, who narrates his own experiences of his life in the novel. Topic of narration is how common rikshaw puller's son rouse to become the successful entrepreneur in Bangalore one of the metro city is south India. Through the life journey of Balram Halwai, the novelist puts the real picture of the Indian society, which is hard to digest but we cannot refuse. We still get some glimpues of all those facts today also, which are expressed by the novelist with great concern for the betterment of the society. The writer's main airs seems to be to contribute in building flawless society that could give

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मानवी हक्क आणि शिक्षणांधी उपयुक्ता

मानवी हक्क म्हणजे काय असा प्रश्न प्रथम पडलो. हक्क व प्रतिष्ठा या दृष्टीने जगातील

सर्व माणसे समान आहेत.त्यामुळेय्यक्तीचे हवक आणि प्रतिष्ठा ही स्वाभाविषकणेष त्या व्यक्तीचे

अविभाज्य घटक आहेत. आंतरराष्ट्रीय पातळीवर कागर्यांची निर्मिती करून हे मानवी हरक तयार

करण्यात आले. जे कायदेशीर हक्क आहेत. त्यांनाच मानवी हक्क असे संबोधले जाते. खोडक्यात

सर्व पानपालील प्रतिष्ठा आणि समता ही मूल्ये, मानवी हपकांच्या मूळाशी असलेल्या इतर भूलतत्यांप्रमाणे प्रत्येक संस्कृती, धर्म आणि लात्यिक परंपरेत आढळलात. अशा मूल्यांनाच मानवी

हक्त असे संबोधले जाते. संयुक्त राष्ट्रसंधात १९४५ मध्ये मानवी हक्क आयोगांवी स्थापना कनण्यात आली. ९० हिसेंबर १९४८ साली सर्व राष्ट्रे आणि मानवसमुह यांनी साध्य करण्याचे आदर्श

तत्व म्हणून मानवी हवकांच्या जागतिक चोषणाधत्रास मान्यता देण्यास आसी. हा दिवस 'आंतरराष्ट्रीय मानव अधिकार दिन' म्हणून पाळला जातो. १९६६ मध्ये संयुक्त राष्ट्राध्या आमसभेने

आर्थिक, सामाजिक व सांस्कृतिक अधिकारांची आतंरराष्ट्रीय प्रमाणका प्रमाले भारताने १९९३ मध्ये

राष्ट्रीय मानव अधिकार स्थापन करण्यात आला. मानयाधिकारांच्या जागतिक जाहिरनाम्यात अनेव महत्वाच्या अधिकारांचा समावेश आहे. यामध्ये भाषण स्थालंत्र्य, संधार, स्वालंत्र्य, व्यक्तिगर रवातंत्र्ये, समानतेचा अधिकार, धर्म स्वातंत्र्य, यांचा समावेश आहे. याशिवाय कामाचा अधिकार

विश्वांतीचा अधिकार आणि पुरसतीचा अधिकार, शिक्षणांचा अधिकार यासारख्या व्याप

अधिकारांचाही त्यात समावेश आहे. प्रत्येक व्यक्तिया समतोल विकास आणि सर्व व्यक्तींची सम

प्रतिष्ठा हा या अधिकाशंध्या मागवा उद्देश आहे. आपल्या रायांसाठी प्रतिष्ठा आणि न्याय हे

मानवी हवकाविषयक जागतिक घोषणापत्रानुसार काही कलमे महत्वाची आहेत ती पुरं

NRI Registration No. MAHENG/2012/55583

जाहिरनाम्याचे घोष वावच आहे.

धमाने :

प्रस्तावनाः

Space

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सुद्धा

ISSN: 2319-3689

Critical Space

प्रा. जी. के. पार्टील

डॉ. पारील बाबुराव मल्हारी⁵



'Dissemination of Education through Knowledge, Science and Culture'-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's PADMABHUSHAN Dr. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON Tal. Tasgaon, Dist.: Sangli. DEPARTMET OF COMMERCE

Report on

ONE DAY ONLINE WORKSHOP

UNDER LEAD COLLEGE SCHEME

on

"ENTREPRENEURSHIP SKILLS"



| Title of Programme | : | "ENTREPRENEURSHIP SKILLS" |
|------------------------------|---|----------------------------------|
| Organizing Department | : | DEPARTMENT OF COMMERCE |
| Collaboration with | : | LEAD COLLEGE SCHEME |
| Date | : | 10 th March, 2021. |
| Mode & Platform | : | Online through Zoom |
| No. of Participants | : | 205, Male 81:, Female: 124 |

About Workshop:

The whole lot you want to know about the concept of entrepreneurship. The word entrepreneur is borrowed from the French language. It is derived from 'entreprendre' meaning to 'undertake'. Thus, entrepreneur is an 'undertaker' in the literal sense of the word. Its usage in French language can be traced much before the coming out of actions generally connected with entrepreneurs today. Entrepreneurship is neither a science nor an art. It is a practice. It has a knowledge base. Knowledge in entrepreneurship is a means to an end. An entrepreneur is a person who is devoted to search something new and exploit the novel notions and visions into gainful opportunities by bearing the risk involved in the process. The entrepreneur conceives the idea of an enterprise, lives with it, and lastly establishes the enterprise. Entrepreneurship refers to the progression of activities undertaken by an entrepreneur.

The Department of Commerce and Lead College Committee have jointly Organized one day Online Workshop on *"Entrepreneurship Skills"* on Wednesday, 10th March, 2021.

Recourse person for the workshop was Hon. Dr. Uday Lokhande, Assistant Professor, Arts And Commerce College, Satara. He highlighted on the Following Entrepreneurship Skills.

- Business Management Skill
- Leadership Skill
- Communication & Listening Skill
- Customer Service Skill
- Financial Skill
- Critical Thinking Skill

He also informed the students about what to do to set up the industry. At the same time students were involved in this workshop.

Hon. Dr. Milind Hujare, The President of this workshop and Principal, Padmabhushan Dr.Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist.- Sangli, Maharashtra (India) covered review of progress and development of the department of commerce. Hon. Principal also focused on the opportunities and challenges in the field of business.

Dr. Sonawale A.G. Head of the Commerce Department and Coordinator has welcomed all dignitaries on the dice and off the dice he also introduced the resource person in brief.

Vote of thanks Expressed by Miss Kamble K.H. Member, of organizing committee.

Anchoring : By Mr. Patil G.R., organizing member of this webinar.


"Dissemination of Education through Knowledge, Science and Culture" -Shikshanmaharibi Dr. Bapuji Salunkhe

Shri Swami Vivekananda Shikshan Sanstha, Kolhapur's PADMABHUSHAN Dr. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

ONE DAY WORKSHOP

on "ENTREPRENEURSHIP SKILLS" Organized By

DEPARTMENT OF COMMERCE

UNDER LEAD COLLEGE SCHEME

SCHEDULE Wednesday, 10th March, 2021

INAUGURAL CEREMONY

(Time-10:00am onwards)

| Inaugural Speech | : | Hon. Dr. Milind Hujare |
|------------------|---|--|
| | | Principal, PDVP, Mahavidyalaya, Tasgaon |
| Introduction | : | Dr. Sonawale A.G. |
| Resource Person | : | Dr. Uday Lokhande Arts & Commerce College, Satara |
| Topic | : | Entrepreneurship Skills |
| President | : | Hon. Prin. Dr. Milind S.Hujare |
| Vote of Thanks | : | Miss. Kamble K.H. |
| Anchoring | : | Mr. Patil G. R. |

Summary of ParticiPants



Designation and Mobile No. Sr. **Full Name** Class (Student / Gender No. (Whatsapp) Teacher) Dr. SONAWALE Amol Assistant 1 **GOWARDHAN** Professor Male 9096615605 2 Female Anuja Amar chavan Student 7666939693 3 Mustkim zakir pathan Student Male 9975288090 4 Vijay mali Student 7249415806 Male 5 Sushant Tanaji Zambare Student 9172514726 Male 6 Jadhav Suhas Sambhaji Student Male 9307457132 7 Pawar monika sanjay Female 9860538315 B.com sy 8 Patil vijita Sunil. Student Female 7821998718 9 Khot Dipali Dilip Student Female 9022102919 10 Shivani Mohan Kharat Student Female 9356832028 11 Ajay Sudhakar Patil Student Male 9960867918 12 Patil Shubham Suresh B.com-2 Male 9657420737 13 Shruti Keshav Sakate Student Female 7397914263 poonam vilas jadhav B.com₂ 14 Female 9970450834 15 Pradnya Ramachandra Patil Student Female 9967126685 Sujit machhindra mohite Student Male 7020071626 16 17 Jadhav Akshta Dilip B.com 2 Female 7666066227 Prathmesh Prashant Buchade 8275809009 18 Student Male Jadhav Pallavi Ramdas Female 19 B. Com 8625824968 8459558283 20 Megharani sudam waghmode Student Female Bcom ll student 7709921245 21 Abhijeet Ashok Mane Male 22 Kakar Vaishnavi Sambhaji Student Female 9175696516 23 Shivani bapu Mali Student Female 9322308585 24 Pooja lalaso mane Student Female 9322462830 9921453845 25 Ajay Dagadu Kate Asst. prof. Male 26 Shweta Satish Nyaynirgune B.com 2(student) Female 7083022763 27 Benkar laxmi siyaram Student Female 8862088315 28 Sanjiwani santosh godbole Bcom sy Female 7620293573 B.com second 29 bhargav bhaskar joshi Male 7972423283 year Sonali Maruti Tupsoundarya Student Female 30 8262921563 Vaishnavi Prakash Patil Female 31 Student 9545194403 32 Anushka vasant kumbhar Student Female 9561871437 33 Siddhi Anil kadam B.Com₂ 8329723140 Female 34 Ranpise priyanka zunzarrao B.com2 Female 8010030065 35 Mulani Mahamad Raju B.com 2nd Male 7083707439 36 Akash Sambhaji Chendage B.com 2 Male 9075107165 37 9970325095 Ankita jotiram mane B.com Female 38 Attar tasneem Ilahi Student Female 9579062278 39 Chavan sayali anil Student Female 9373507077 40 Jadhav Pooja ananda b.com 2nd year Female 9579873644

Participants List

| 41 | Gurav swapnali shrikant | Bcom ll | Female | 9545195863 |
|----|----------------------------------|-------------------|--------|------------|
| 42 | Autade Madhuri Bharat | Student | Female | 7391800203 |
| 43 | Samiksha Ravsaheb Pawar | Student | Female | 7558210744 |
| 44 | Patil Rutuja Dilip | B. Com Part 2 | Female | 7875042528 |
| 45 | Karina jahangir maner | Sonvane sir | Female | 9579473301 |
| 46 | Sandhyarani dhanaji mane | Student | Female | 8999075017 |
| 47 | Namrata Vinayak pardeshi | Student | Female | 8605372022 |
| 48 | Phalake Pratiksha Vinod | Student | Female | 7757859160 |
| 49 | Kanase Sonali Vijay | Student | Female | 9637109318 |
| 50 | Madhura sanjay pol | B. Com1 | Female | 7387156350 |
| 51 | Sahil Santosh Sadanand | Student | Male | 9325303183 |
| 52 | Kharade prajakta Mohan | Student | Female | 8010655642 |
| 53 | Samiksha Sandip gurav | B.com 1 | Female | 8999515822 |
| 54 | Sandhyarani Ramachandra kumbhar. | Student | Female | 7498125609 |
| 55 | Gavali Pratiksha Suresh | B. Com | Female | 7378899305 |
| 56 | Madhura Nivas Gurav | Student B.com 2 | Female | 9975462104 |
| 57 | Chaitanya chandrakant shinde | B. Com 1 | Male | 9529940516 |
| 58 | Komal Ramesh Suryavanshi | Bcom (student) | Female | 7058969829 |
| 59 | Rutuja Jayant Gaikwad | B.com Ill | Female | 9273532804 |
| 60 | Laxmi shrishail navadage | Bcom 1 St year | Female | 9028332046 |
| 61 | Komal Santosh Gavali | Bcom-1 | Female | 8551093272 |
| 62 | Sayali subhash patil | Student | Female | 8329771653 |
| 63 | vaishnavi rajendra suryawanshi | student | Female | 9307531774 |
| 64 | Rutuja Anil Mali | A | Female | 7841083247 |
| 65 | Prathamesh Arvind Kamble | B.com 1st year | Male | 9561870473 |
| 66 | Mane Nikita Ganesh | Student | Female | 9325116598 |
| 67 | komal popat pawar | student | Female | 7249112804 |
| 68 | Omkar jotiba shastri | B.com 1 student | Male | 7058466535 |
| 69 | Pranav patil | Student | Male | 8055661315 |
| 70 | Karan Sanjay Navale | Student | Male | 8530509606 |
| 71 | Waghmode pratik keshav | B com 1 | Male | 9665153430 |
| 72 | Salunkhe Anita Vinayak. | Student B. Com 3 | Female | 9579765386 |
| 73 | Amol Ananda Salunkhe | Student | Male | 9022706703 |
| 74 | Anita pandurang shinde | Student | Female | 7218871717 |
| 75 | Rutika Manik Pawar | Student | Female | 9356213045 |
| 76 | Bhagyashri shivaji nikam | Sonvle sir. | Female | 7499778990 |
| 77 | Rutvik fanchu yadav | Student | Male | 7219817278 |
| 78 | Mane Radhika Subhash | B.com 3 | Female | 8767912250 |
| 79 | Pratiksha Rajendra Patil | BCom-3 | Female | 9322483581 |
| 80 | Vishal uttam katkar | Student | Male | 9960871240 |
| 81 | Hingmire Shraddha Sunil | Student | Female | 9890575165 |
| 82 | Vijay yuvraj Rendalkar | Student | Male | 9860744502 |
| 83 | Monika manik sutar | Student | Female | 7397938493 |
| 84 | Ketan Shankar Daingade | Student | Male | 8806239938 |
| 85 | Sayali mahesh petkar | Student | Female | 9860371144 |
| | | Student B.com 1st | | |
| 86 | Amruta Dnyandev Edake | year | Female | 8010454691 |

| 88Kamble Ankita BaluStudenFemale749872111489Suryavanshi Dhanshri Mohan.Studen.B.com.IIIFemale93253123590Sutar rohan SanjayStuden IMalu93253123591Mahugandha pradip moreStuden BcomIFemale788715577692Amruta Balaso patiStuden IFemale788715577693Rushikesh Suresh JamdadeStudent Male907567778894Mayuri jadhavStudent Male90756778895Dr. Tatoba kallappa BadameTeacherMale92124218396Shinde yogesh shivajiB.com IstycarMale92124218397Kharade pratiksha TukaramStudent StudentMale9212418198Sahif Salim nadafStudent, B.comMale92124218399shinde snehal pradipStudent, B.comMale92124181100HankareStudent, B.comMale92124181101Mane Keshav DipakStudent, B.comMale92124181102PRASAD JAYANT GOREStudent, B.comMale9763175121103Suyge ravsheb patilB.COMMale973152924104Harshad hannun LadhavB.comFemale97612921105Swapnil sanjay BhagatB.ComFemale972512392106Adit schin patiG.StudentFemale92270015103Harshada Hannan LadhavB.comFemale92270215104Harshada Hannan LadhavB.com | 87 | Jadhav Vishal mahadev | <u>B.com</u> | Male | 8956133400 |
|--|-----|-------------------------------|------------------|--------|------------|
| 89Suryawanshi Dhanshri Mohan.Student B.com.IIIFemale932533123590Sutar rohan SanjayStudent M.911230703291Madhugandha pradip moreycarFemale738715597692Amruta Balaso patiStudent Female766688863793Rushikesh Suresh JamdadeStudentMale907569775894Mayuri jadhavStudentFemale866959431095Dr. Tatoba kallappa BadameTeacherMale992142418397Kharade pratiksha TukaramStudentFemale853037588398Sahil Salim nadafStudent, B.comFemale7666823155100HankareStudent, B.com705871947199shinde snehal pradipStudent, B.com7666397851101Mane Keshav Dipak-1stMale9067781219102PRASAD JAYANT GORESTUDENTMale737848637103Suyog ravsheb patilB COM 3Male737848637104Harshada bandu karodeB.com 11Female8676127971105Swapnil sanjag BhagatB.comFemale8676127971106Harshada Hanmant JadhavB.comFemale932214915107Omkar Mahadev PatilStudentFemale932214915108Harshada Hanmant JadhavB.comFemale932214915109Aditi aschin patilStudentFemale932214921109Nakar Agiendra MalieStudentFemale9322179015 </td <td>88</td> <td>Kamble Ankita Balu</td> <td>Student</td> <td>Female</td> <td>7498721114</td> | 88 | Kamble Ankita Balu | Student | Female | 7498721114 |
| 90Sutar rohan SanjayStudent Rom 1 Student Rom 1 yearFemale738715507691Madhugandha pradip moreStudent StudentFemale738715507692Amruta Balaso patilStudentStudentFemale766685863793Rushikesh Suresh JamdadeStudentFemale866959431095Dr. Tatoba kallappa BadameTeacherMale99216213788396Shinde yogesh shivajiB.com 1st yearMale992142418397Kharade pratiksha TukaramStudentFemale853037588398Sahil Salim nadafStudent D.comFemale7666823155100HankareStudent D.comFemale705871947197Male Keshav Dipak-1 stMale907781219102PRASAD JAYANT GORESTUDENTMale9763155921103Suyog ravsaheb patilBCOM 3Male7378487637104Harshada bandu karodeB.com 11Female876127971105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentBcom.1811292071107Omkar Mahadev PatilStudentBcom.19775828863110Rajmae Priyanka DadasoBromaFemale932270915111Swapnali Satish KharmateStudentFemale921292371106Adity aspindra MaliStudentFemale921924381110Rajmae Priyanka DadasoBromaFemale922789718 <td>89</td> <td>Suryawanshi Dhanshri Mohan.</td> <td>StudentB.com.III</td> <td>Female</td> <td>9325331235</td> | 89 | Suryawanshi Dhanshri Mohan. | StudentB.com.III | Female | 9325331235 |
| 91Mahugandha pradip moreStudent Bcon 1Female738715597692Amruta Balaso patilStudentFemale766658583793Rushikesh Suresh JamdadeStudentFemale866959431095Dr. Tatoba kallappa BadameTeacherMale992142418396Shinde yogesh shivajiB.com 1st yearMale992142418397Kharade pratiksha TukaramStudentFemale853037588398Sahil Salim nadafStudentMale92727107299shinde snehal pradipStudent, B.comFemale7666823155100Hankarestudent, B.comFemale766637851101Mare Keshav Dipak-1stMale9067781219102PARSAD JAYANT GORESTUDENTMale737847637103Suyog ravsaheb patilB COM 3Male737847637104Harshada bandu karodeB.com 11Female8676127911105Swapnil sanjay BhagatB.Com 3Male737847637106Aditi sachin patilStudentFemale876712791107Orkar Mahadev PatilStudentFemale802072878108Harshada Hanmant JadhavB.com1Female87270723109Aditya Rajendra MaliB.com.1Female97291232109Aditya Rajendra MaliStudentFemale922036381110Rujanae Priyanka DadasoBornaiFemale922045263111Swapnali Satish Kharmate </td <td>90</td> <td>Sutar rohan Sanjay</td> <td>Student</td> <td>Male</td> <td>9112307032</td> | 90 | Sutar rohan Sanjay | Student | Male | 9112307032 |
| 91 Madhugandha pradip more year Female 7387155976 92 Amruta Balaso patil Student Female 7666858637 93 Rushikesh Suresh Jamdade Student Male 9075697758 94 Mayuri jadhav Student Female 8669594310 95 Dr. Tatoba kallappa Badame Teacher Male 9921421183 96 Shinde yogesh shivaji B.com 1st year Male 9527970072 99 shinde snehal pradip Student Karade pratiskah Tukaram Student Male 9527970072 99 shinde snehal pradip Student b.com3 Female 7666823155 100 Hankare student Male 9067781219 101 Mane Keshav Dipak - 1st Male 9067781219 102 PRASAD JAYANT GORE STUDENT Male 9763155924 103 Suyog ravsaheb patil B.Com 11 Female 8761157914 104 Harshada handu karode B.com11 Female 876127971 103 Suyog ravsaheb patil B.Com.1 Female 876127971 104 Aditi sachin patil Student Female 8771597633 105 Swapnil sanjath | | | Student Bcom 1 | | |
| 92Amruta Balaso patilStudentFemale766685863793Rushikesh Suresh JamdadeStudentMale907569775894Mayuri jadhavStudentFemale866959431095Dr. Tatoba kallappa BadameTeacherMale992142418396Shinde yogesh shivajiB.com Ist yearMale992142418397Kharade pratiksha TukaramStudentFemale8503788398Sahil Salim nadafStudentStudentMale952797007299shinde snehal pradipStudent Locom3Female7666823155100Hankare-1 ttMale9067781219101Mane Keshav Dipak-1 ttMale9067781219102PRASAD JAYANT GORESTUDENTMale9766397851103Suyog ravsaheb patilB COM 3Male7397989509104Harshada bandu karodeB.com IIFemale8676127971105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale975912392109Aditya Rajendra MaliB.comIFemale97297022709015111Swapnali Satish KharmateStudentFemale97297297072110Rajmane Priyanka DadasoBormalFemale972972372111Swapnali Satish KharmateStudentFemale972972372112Amita GavaliStudentFemale97207226381113KOLI HEMA BHAGWAN KOLI | 91 | Madhugandha pradip more | year | Female | 7387155976 |
| 93Rushikesh Suresh JamdadeStudentMale90759775894Mayuri jadhavStudentFemale866959775895Dr. Tatoba kallappa BadameTeacherMale985067703996Shinde yogesh shivajiB.com Ist yearMale992142418397Kharade pratiksha TukaramStudentFemale853037588398Sahil Salim nadafStudent D.comFemale7666823155100HankarestudentMale7058719471199shinde snehal pradipStudent b.comFemale7666823155101Mane Keshav Dipak- 1stMale9067781219102PRASAD JAYANT GORESTUDENTMale976378511103Suyog ravsaheb patilB COM 3Male7397989509104Harshada bandu karodeB.com IIFemale9763155244105Swapnil sanjay BhagatBCOM 3Male738786737106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentMale91292307108Harshada Hanman JadhavB.com-IFemale9322709015118KoLI HEMA BHAGWAN KOLIStudentFemale720572878113KOLI HEMA BHAGWAN KOLIStudentFemale755864453114Kale tejashvini dhanajiStudentFemale755064453115Aymur Nisar NadafStudentFemale742072871118Pooja Shashkant GhodakeStudent </td <td>92</td> <td>Amruta Balaso patil</td> <td>Student</td> <td>Female</td> <td>7666858637</td> | 92 | Amruta Balaso patil | Student | Female | 7666858637 |
| 94Mayuri jadhavStudentFemale866959431095Dr. Tatoba kallappa BadameTeacherMale992142418396Shinde yogesh shivajiB.com Ist yearMale992142418397Kharade pratiksha TukaramStudentFemale853037588398Sahil Salim nadafStudent b.com3Female766823155100HankareStudent b.com3Female7668719471101Mane Keshav Dipak- 1stMale976639781219102PRASAD JAYANT GORESTUDENTMale9763978511103Suyog ravsaheb patilB.com1IFemale976315524104Harshada bandu karodeB.com1IFemale976315524105Swapnil sanjay BhagatBCOM3Male7138487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentFemale9775912392108Harshada Hammant JadhavB.com.1Female9322709015111Swapnali Satish KharmateStudentFemale92217012113KOLI HEMA BHAGWAN KOLIStudentFemale922170371114kale tejashvini dhanajiStudentFemale922709015115Swapnali Bhimrav MalameB.Com 1Male758284863116Swapnali Bhimrav MalameB.Com 1Female9223703117Patil Pratiksha ManikStudentFemale935970702118Pooja Shashikant Ghodake </td <td>93</td> <td>Rushikesh Suresh Jamdade</td> <td>Student</td> <td>Male</td> <td>9075697758</td> | 93 | Rushikesh Suresh Jamdade | Student | Male | 9075697758 |
| 95Dr. Tatoba kallappa BadameTeacherMale985067703996Shinde yogesh shivajiB.com 1st yearMale992142418397Kharade pratiksha TukaramStudentFemale8503758398Sahil Salim nadafStudent b.com3Female852797007299shinde snehal pradipStudent b.com3Female7666823155100Hankarestudent, B.Com-7666823155101Mane Keshav DipakStudent, B.ComMale7387989509102PRASAD JAYANT GORESTUDENTMale976315524103Suyog ravsaheb patilB COM 3Male7387887637104Harshada bandu karodeB.com IIFemale8676127971105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentFemale9975912392108Harshada Hanmant JadhavB.com IMale735828863110Rajmane Priyanka DadasoBom3Female902270015111Swapali Satish KharmateStudentFemale7620728778112Amita GavaliStudentFemale762022873113KOLI HEMA BHAGWAN KOLIStudentFemale937043536114Kale tejashvini dhanajiStudentFemale937043536115Aynur Nisar NadafStudentFemale937043536116Swapali Bhimar Malame | 94 | Mayuri jadhav | Student | Female | 8669594310 |
| 96Shinde yogesh shivajiB.com 1st yearMale992142418397Kharade pratiksha TukaramStudentFemale853037588398Sahil Salim nadafStudent D.comFemale7666823155100HankareStudent D.comFemale7056719471179Ninde snehal pradipStudent, B.Com70587194711701Mane Kcshav Dipak-1stMale9067781219102PRASAD JAYANT GORESTUDENTMale97663978511103Suyog ravsaheb patilB COM 3Male737989509104Harshada bandu karodeB.com IIFemale9763155924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8975912392107Omkar Mahadev PatilStudentFemale9975912392108Harshada Hammant JadhavB.com.1Male7158828863110Rajmane Priyanka DadasoBom3Female9322709015111Swapati Satish KharmateStudentFemale7620728778112Amita GavaliStudentFemale7020728778113KOLI HEMA BHAGWAN KOLIStudentFemale9352700202114Kale tejashvini dhanajiStudentFemale9559970292115Aynur Nisar NadafStudentFemale75205301116Swapati Bhimrav MalameB.Com 2 nd yearFemale9359707292118Pooja Shashikant Ghodake | 95 | Dr. Tatoba kallappa Badame | Teacher | Male | 9850677039 |
| 97Kharade pratiksha TukaramStudentFemale853037588398Sahil Salim nadafStudentMale952797007299shinde snehal pradipStudent b.com3Female766823155100HankarestudentMale7058719471101Mane Keshav Dipak-1stMale9067781219102PRASAD JAYANT GORESTUDENTMale9763155924103Suyog ravsaheb patilB COM 3Male737989509104Harshada bandu karodeB.cOM 3Male7378487637105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentMale7915912392108Harshada Hammant JadhavB.com1Female992270015111Swapnali Satish KharmateStudentFemale972012878112Amita GavaliStudentFemale95192438113KOLI HEMA BHAGWAN KOLIStudentFemale951942458114Kale tejashvini dhanajiStudentFemale952070029115Aynur Nisar NadafStudentFemale9373407322116Swapnali Bhimrav MalameB.Com 1 YearMale9373407322117Patil Pratiksha ManikstudentFemale9373407322118Pooja Shashikant GhodakeStudentFemale9373407322119Chavan Mayur AnandraoB. Com 1 Year <td>96</td> <td>Shinde yogesh shivaji</td> <td>B.com 1st year</td> <td>Male</td> <td>9921424183</td> | 96 | Shinde yogesh shivaji | B.com 1st year | Male | 9921424183 |
| 98Sahil Salim nadafStudentMale952797007299shinde snehal pradipStudent b.com3Female7666823155100HankareStudent, B. Com101Mane Keshav Dipak-1 stMale9067781219102PRASAD JAYANT GORESTUDENTMale9766397851103Suyog ravsaheb patilB COM 3Male7379789509104Harshada bandu karodeB.com IIFemale9761515924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentFemale8676127971108Harshada Hanmant JadhavB.com 1Male735882863109Aditya Rajendra MaliB.com 1Male735828863110Rajmane Priyanka DadasoBom3Female90205263111Swapnali Satish KharmateStudentFemale7020728778113KOLI HEMA BHAGWAN KOLIStudentFemale922636381114Kale tejashvini dhanajiStudentFemale9350707029115Aynur Nisar NadafStudentFemale935070729116Swapnali Bhimrav MalameB.Com 1 YearMale9373407322120Patil Pooja Shashikant GhodakeStudentFemale9373407322121Patiksha ManikStudentFemale9373407322122Patil pooja bhausahebStudent | 97 | Kharade pratiksha Tukaram | Student | Female | 8530375883 |
| 99shinde snehal pradipStudent b.com3Female7666823155100HankareStudentMale7058719471101Mane Keshav Dipak- 1stMale9067781219102PRASAD JAYANT GORESTUDENTMale9766397851103Suyog ravsaheb patilB COM 3Male7397989509104Harshada bandu karodeB.com IIFemale9763155924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentFemale975912392108Harshada Hanmant JadhavB.com.IFemale9725912392109Aditya Rajendra MaliB.com.IFemale9722709015111Swapnali Satish KharmateStudentFemale702052263112Amita GavaliStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale970043536114Kale tejashvini dhanajiStudentFemale970043536115Aynur Nisar NadafStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373417478120Patil Pratiksha ManikStudentFemale9373417478121Sushash Staikend GhodakeStudentFemale9373417478122Sakshi anil ShindeStudentFemale9373417478123Rushkesh Tanaji PatilB. com 1 | 98 | Sahil Salim nadaf | Student | Male | 9527970072 |
| 100HankarestudentMale7088719471101Mane Keshav DipakStudent, B. Com-102PRASAD JAYANT GORESTUDENTMale97631219103Suyog ravsaheb patilB COM 3Male7397989509104Harshada bandu karodeB.com IIFemale9763155924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentMale97192392108Harshada Hanmant JadhavB.com.1Female9975912392109Aditya Rajendra MaliB.com.1Male775828863110Rajmane Priyanka DadasoBoom3Female922709015111Swapnali Satish KharmateStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale922636381115Aynur Nisar NadafStudentFemale937043356116Swapnali Bhimrav MalameB.Com 2 nd year937043356117Patil Pratiksha Manik, studentFemale9373417478128Pooja Shashikant GhodakeStudentFemale9373417478129Patil pooja bhashabStudentFemale9373417478121Sushas Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9373417478123Rushikesh Tanaji PatilB.com 1 yearFemale <t< td=""><td>99</td><td>shinde snehal pradip</td><td>Student b.com3</td><td>Female</td><td>7666823155</td></t<> | 99 | shinde snehal pradip | Student b.com3 | Female | 7666823155 |
| NumberStudent, B. ComMale9067781219101Mane Keshav Dipak-11stMale9067781219102PRASAD JAYANT GORESTUDENTMale73789500103Suyog ravsaheb patilB COM 3Male73797989509104Harshada bandu karodeB.Com 1IFemale9763155924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentMale9112923071108Harshada Hanmant JadhavB.com.1Female9975912392109Aditya Rajendra MaliB.com.1Female932270915110Rajmane Priyanka DadasoBomalFemale73227805111Swapnali Satish KharmateStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale932246381114Kale tejashvini dhanajiStudentFemale932043536115Aynur Nisar NadafB.Com 2 Male7420979418116Swapnali Bhimrav MalameB.Com 1 YearMale9373407322117Patil Pratiksha ManikStudentFemale9373407322118Pooja Shashikant GhodakeStudentFemale9373407322119Chavan Mayur AnandraoB.Com 1 YearMale9373407322120Patil pooja bhashafa GiakwadStudentFemale9373407322121Sushkash GaikwadStudent <t< td=""><td>100</td><td>Hankare</td><td>student</td><td>Male</td><td>7058719471</td></t<> | 100 | Hankare | student | Male | 7058719471 |
| 101Mane Keshav Dipak1stMale9067781219102PRASAD JAYANT GORESTUDENTMale9766397851103Suyog ravsaheb patilB COM 3Male7397989509104Harshada bandu karodeB.com IIFemale9763155924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentMale9112923071108Harshada Hanmant JadhavB.com1Female9975912392109Aditya Rajendra MaliB.com.1Male7758828863110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7020052263112Amita GavaliStudentFemale9651942458113KOLI HEMA BHAGWAN KOLIStudentFemale952194238114Kale tejashvini dhanajiStudentFemale975007237115Aynur Nisar NadafStudentFemale9370043536116Swapnali Bhimrav MalameB.Com 1 dyear758864453117Patil Pratiksha Manik, studentFemale93734707322120Patil Pratiksha ManikStudentFemale9730707291131Royan Mayur AnandraoB.Com 1 YearMale93734707322142Sakshi anil ShindeStudentFemale973073501123Rushikesh Tanaji PatilB.com 3< | | | Student, B. Com | | |
| 102PRASAD JAYANT GORESTUDENTMale9766397851103Suyog ravsaheb patilB COM 3Male7397989509104Harshada bandu karodeB.com IIFemale9763155924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale876127971107Omkar Mahadev PatilStudentMale9715912392109Aditya Rajendra MaliB.com.1Female9975912392109Aditya Rajendra MaliB.com.1Male7758828863110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7020052263112Amita GavaliStudentFemale9769124325113KOLI HEMA BHAGWAN KOLIStudentFemale9022636381114Kale tejashvini dhanajiStudentFemale972043536115Aynur Nisar NadafB.Com 2 nd year9370443536116Swapnali Bhimrav MalameB.Com 1 year9373407322120Patil Pratiksha Manik, studentFemale97334707322121Sushnikant GhodakeStudentFemale9730359480122Sakshi anil ShindeStudentFemale97334707322123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale97334707322125Jound Priti DilipStudentFem | 101 | Mane Keshav Dipak | - 1st | Male | 9067781219 |
| 103Suyog ravsaheb patilB COM 3Male7397989509104Harshada bandu karodeB.com IIFemale9763155924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentFemale9975912392108Harshada Hanmant JadhavB.com.1Female9975912392109Adity a Rajendra MaliB.com.1Male775882863110Rajmane Priyanka DadasoBormaFemale9322709015111Swapnali Satish KharmateStudentFemale720052263112Amita GavaliStudentFemale920236381113KOLI HEMA BHAGWAN KOLIStudentFemale9022636381114Kale tejashvini dhanajiStudentFemale9370043536117Patil Pratiksha ManikB.Com 3Female9370043536118Pooja Shashikant GhodakeStudentFemale9373407322120Patil pooja bhausahebStudentFemale9373417478122Sakshi anil ShindeStudentFemale973159301121Sushma Subhash GaikwadStudentFemale9731359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati | 102 | PRASAD JAYANT GORE | STUDENT | Male | 9766397851 |
| 104Harshada bandu karodeB.com IIFemale9763155924105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentMale9112923071108Harshada Hanmant JadhavB.com.1Female9975912392109Aditya Rajendra MaliB.com.1Male7758828863110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale9022636381114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale9370043536116Swapnali Bhimrav MalameB.Com 2 nd year93707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale973043530121Sushma Subhash GaikwadStudentFemale97304354122Sakshi anil ShindeStudentFemale9730475301123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale973043548125Dound Priti DilipStudentFemale973043548126sushikesh Tanaji PatilB.com 3Male8329122599127Pranali Raghunath Sury | 103 | Suyog ravsaheb patil | B COM 3 | Male | 7397989509 |
| 105Swapnil sanjay BhagatBCOM 3Male7378487637106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentMale9112923071108Harshada Hanmant JadhavB.com1Female9975912392109Aditya Rajendra MaliB.com.1Male7758828863110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7620728778112Amita GavaliStudentFemale976912458113KOLI HEMA BHAGWAN KOLIStudentFemale9022636381114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale9370043536116Swapnali Bhimrav MalameB.Com 2 nd year7420979418118Pooja Shashikant GhodakeStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale9730359480121Sushma Subhash GaikwadStudentFemale9730359480122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 1 yearFemale9011478904124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale902125091124Sundade Swati S | 104 | Harshada bandu karode | B.com II | Female | 9763155924 |
| 106Aditi sachin patilStudentFemale8676127971107Omkar Mahadev PatilStudentMale9112923071108Harshada Hanmant JadhavB.com.1Female9975912392109Aditya Rajendra MaliB.com.IMale7758828863110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7020052263112Amita GavaliStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale9022636381114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale9370043536116Swapnali Bhimrav MalameB.Com 2 nd year7588664453117Patil Pratiksha Manik, studentFemale93707029118Pooja Shashikant GhodakeStudentFemale9373407322120Patil pooja bhausahebStudentFemale9373407322121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale931417478123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale92115094126snehal ramesh kumbharbcom 1 yearFemale92115094127Pranali Raghunath Surya | 105 | Swapnil sanjay Bhagat | BCOM 3 | Male | 7378487637 |
| 107Omkar Mahadev PatilStudentMale9112923071108Harshada Hanmant JadhavB.com1Female9975912392109Aditya Rajendra MaliB.com IMale7758828663110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7020052263112Amita GavaliStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale9022636381114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale9370043536116Swapnali Bhimrav MalameB.Com 2 nd year9370043536117Patil Pratiksha ManikStudentFemale9370029118Pooja Shashikant GhodakeStudentFemale937407322120Patil pooja bhausahebStudentFemale973417322121Sushma Subhash GaikwadStudentFemale973417478122Sakshi anil ShindeStudentFemale9731417478123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundae Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale902115004126snehal ramesh kumbharbcom 1 yearFemale902115004127Pranali Raghunath SuryawanshiStudentFemale902115004128Gurav Aary Arvin | 106 | Aditi sachin patil | Student | Female | 8676127971 |
| 108Harshada Hanmant JadhavB.com1Female9975912392109Aditya Rajendra MaliB.com.1Male7758828863110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7020052263112Amita GavaliStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale902636381114Kale tejashvini dhanajiStudentFemale902636381115Aynur Nisar NadafStudentFemale9370043536116Swapnali Bhimrav MalameB.Com 2 nd year7420979418117Patil Pratiksha Manik, studentFemale937407322118Pooja Shashikant GhodakeStudentFemale9373407322120Patil pooja bhausahebStudentFemale9373407322121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale930359480123Rushikesh Tanaji PatilB.com 1 yearFemale9011478904124Soundade Swati SubhashStudentFemale921809797125Dound Priti DilipStudentFemale90215094126snehal ramesh kumbharbcom 1 yearFemale902150094127Pranali Raghunath SuryawanshiStudentFemale902150094128Gurav Aary ArvindStudentFemale902150094 <trr<td>129Bedage</trr<td> | 107 | Omkar Mahadev Patil | Student | Male | 9112923071 |
| 109Aditya Rajendra MaliB. com IMale7758828863110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7020052263112Amita GavaliStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale9022636381114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale9370043536116Swapnali Bhimrav MalameB. Com 2 nd year7420979418117Patil Pratiksha Manik, studentFemale7420979418118Pooja Shashikant GhodakeStudentFemale9373407322120Patil pooja bhausahebStudentFemale9373407322121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB. Com 1 yearMale8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale9021150094126snehal ramesh kumbharbcom 1 yearFemale9021150094127Pranali Raghunath SuryawanshiStudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale952260496130Snehal Vijay shindeStudentFemale906038962131 | 108 | Harshada Hanmant Jadhav | B.com1 | Female | 9975912392 |
| 110Rajmane Priyanka DadasoBom3Female9322709015111Swapnali Satish KharmateStudentFemale7020052263112Amita GavaliStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale9022636381114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale7558664453116Swapnali Bhimrav MalameB.Com3Female9370043536117Patil Pratiksha ManikB.Com2 nd year7420979418118Pooja Shashikant GhodakeStudentFemale7420979418119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale9757075301121Sushma Subhash GaikwadStudentFemale9730359480123Rushikesh Tanaji PatilB.com1 YearMale8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale9021150094126snehal ramesh kumbharbcom 1 yearFemale902150094127Pranali Raghunath SuryawanshiStudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9052260496130Snehal Vijay shindeStudentFemale9052260496131Arpita Shrimandhar Jayappa.StudentFemale9022782711 </td <td>109</td> <td>Aditya Rajendra Mali</td> <td>B.com I</td> <td>Male</td> <td>7758828863</td> | 109 | Aditya Rajendra Mali | B.com I | Male | 7758828863 |
| 111Swapnali Satish KharmateStudentFemale7020052263112Amita GavaliStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale9561942458114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale902536381116Swapnali Bhimrav MalameB.Com 2 nd year9370043536117Patil Pratiksha ManikB.Com 2 nd year7420979418118Pooja Shashikant GhodakeStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale9373407322121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9373417478123Rushikesh Tanaji PatilB.Com 1 YearMale8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale9011478904126snehal ramesh kumbharbcom 1 yearFemale9021150094127Pranali Raghunath SuryawanshiStudentFemale902150094128Gurav Aary ArvindStudentFemale9052260496130Snehal Vijay shindeBcom 3 yearFemale9052260496131Arpita Shrimandhar Jayappa.StudentFemale9022782711 | 110 | Rajmane Priyanka Dadaso | Bom3 | Female | 9322709015 |
| 112Amita GavaliStudentFemale7620728778113KOLI HEMA BHAGWAN KOLIStudentFemale9561942458114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale7558664453116Swapnali Bhimrav MalameB.Com 2 nd year970043536117Patil Pratiksha ManikB.Com 2 nd year7420979418118Pooja Shashikant GhodakeStudentFemale7420979418119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale9373417478121Sushma Subhash GaikwadStudentFemale9730359480122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale9011478904126snehal ramesh kumbharbcom 1 yearFemale902150094127Pranali Raghunath SurgawanshiStudentFemale902150094128Gurav Aary ArvindStudentFemale9552260496130Snehal Vijay shindeBcom 3 yearFemale9052260496131Arpita Shrimandhar Jayappa.StudentFemale902150094 | 111 | Swapnali Satish Kharmate | Student | Female | 7020052263 |
| 113KOLI HEMA BHAGWAN KOLIStudentFemale9561942458114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale7558664453116Swapnali Bhimrav MalameB.Com 3Female9370043536117Patil Pratiksha Manik.studentFemale7420979418118Pooja Shashikant GhodakeStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale9373407322121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale9021150094126snehal ramesh kumbharbcom 1 yearFemale9021150094128Gurav Aary ArvindStudentFemale9021150094129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 112 | Amita Gavali | Student | Female | 7620728778 |
| 114Kale tejashvini dhanajiStudentFemale9022636381115Aynur Nisar NadafStudentFemale7558664453116Swapnali Bhimrav MalameB.Com 3Female9370043536117Patil Pratiksha ManikB. Com 2 nd year7420979418118Pooja Shashikant GhodakeStudentFemale7420979418119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale757075301121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 1 yearFemale9730359480124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale847719545126snehal ramesh kumbharbcom 1 yearFemale9021150094127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindBcom 3 yearFemale9021150094129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Arpita Shrimandhar Jayappa.StudentFemale902038962 | 113 | KOLI HEMA BHAGWAN KOLI | Student | Female | 9561942458 |
| 115Aynur Nisar NadafStudentFemale7558664453116Swapnali Bhimrav MalameB.Com 3Female9370043536117Patil Pratiksha ManikB. Com 2 nd yearFemale7420979418118Pooja Shashikant GhodakeStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale7757075301121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale9021150094127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 114 | Kale tejashvini dhanaji | Student | Female | 9022636381 |
| 116Swapnali Bhimrav MalameB. Com 3Female9370043536117Patil Pratiksha ManikB. Com 2 nd year , studentFemale7420979418118Pooja Shashikant GhodakeStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale7757075301121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale921150094126snehal ramesh kumbharbcom 1 yearFemale9021150094128Gurav Aary ArvindStudentFemale9021150094129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 115 | Aynur Nisar Nadaf | Student | Female | 7558664453 |
| International 117B. Com 2 nd year , studentFemale7420979418118Pooja Shashikant GhodakeStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale7757075301121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale9021150094127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindStudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 116 | Swapnali Bhimrav Malame | B.Com 3 | Female | 9370043536 |
| 117Patil Pratiksha Manik, studentFemale7420979418118Pooja Shashikant GhodakeStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale7757075301121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale9021150094127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindStudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9052260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | | | B. Com 2 nd year | | |
| 118Pooja Shashikant GhodakeStudentFemale9359707029119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale7757075301121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale9021150094127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindStudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9052260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 117 | Patil Pratiksha Manik | , student | Female | 7420979418 |
| 119Chavan Mayur AnandraoB. Com 1 YearMale9373407322120Patil pooja bhausahebStudentFemale7757075301121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale9021150094127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 118 | Pooja Shashikant Ghodake | Student | Female | 9359707029 |
| 120Patil pooja bhausahebStudentFemale7757075301121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale7218039779127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 119 | Chavan Mayur Anandrao | B. Com 1 Year | Male | 9373407322 |
| 121Sushma Subhash GaikwadStudentFemale9373417478122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale7218039779127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 120 | Patil pooja bhausaheb | Student | Female | 7757075301 |
| 122Sakshi anil ShindeStudentFemale9730359480123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale7218039779127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 121 | Sushma Subhash Gaikwad | Student | Female | 9373417478 |
| 123Rushikesh Tanaji PatilB.com 3Male8329122599124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale7218039779127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 122 | Sakshi anil Shinde | Student | Female | 9730359480 |
| 124Soundade Swati SubhashStudentFemale9011478904125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale7218039779127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 123 | Rushikesh Tanaji Patil | B.com 3 | Male | 8329122599 |
| 125Dound Priti DilipStudentFemale8847719545126snehal ramesh kumbharbcom 1 yearFemale7218039779127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 124 | Soundade Swati Subhash | Student | Female | 9011478904 |
| 126snehal ramesh kumbharbcom 1 yearFemale7218039779127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 125 | Dound Priti Dilip | Student | Female | 8847719545 |
| 127Pranali Raghunath SuryawanshiStudentFemale9021150094128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 126 | snehal ramesh kumbhar | bcom 1 year | Female | 7218039779 |
| 128Gurav Aary ArvindstudentMale9096772322129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 127 | Pranali Raghunath Suryawanshi | Student | Female | 9021150094 |
| 129Bedage pratiksha RamchandraBcom 3 yearFemale9552260496130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 128 | Gurav Aary Arvind | student | Male | 9096772322 |
| 130Snehal Vijay shindeStudentFemale9096038962131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 129 | Bedage pratiksha Ramchandra | Bcom 3 year | Female | 9552260496 |
| 131Arpita Shrimandhar Jayappa.StudentFemale9322782711 | 130 | Snehal Vijay shinde | Student | Female | 9096038962 |
| | 131 | Arpita Shrimandhar Jayappa. | Student | Female | 9322782711 |

| 132 | Patil Akashi Sanjay | Student | Female | 8421661253 |
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| 133 | Aviraj Vilas Shinde | Student | Male | 9970179534 |
| 134 | Pawar monika Tanaji | Student | Female | 9356771976 |
| 135 | Vaishnavi Arjun kadam | Student | Female | 9370870333 |
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| 137 | vaibhagu suresh hingmire | student | Female | 7385231929 |
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| 147 | Suraj Hari patil | Sonvale | Male | 8080912441 |
| 148 | mohddin Musa Shaikh | BCOM 1 | Male | 9730760283 |
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| 156 | suraj ashok patil | student | Male | 9422589673 |
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| 160 | Shivani Bharat Mane | B. Com I | Female | 9325210490 |
| 161 | Sagar blasaheb Wagh | Student | Male | 7385122803 |
| 162 | Amit Dattatray Nikam | B. Com III | Male | 9826198763 |
| 163 | Mane Pranali manohar | В | Female | 7058244868 |
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| 171 | Arilat Detil | Protessor | Male | 000038984/ |
| 1/1 | Aniket Patil | B.com 3 year | Male | 8766903736 |
| 172 | Cnavan pooja bapurao | B com 2 | Female | 8/00439239 |
| 173 | Rohan Saniay Robade | D.COIII 3 Sonavane Sir | Male | 7798606636 |
| 174 | Arati Ariun Nyavnirgune | Student | Female | 8591051229 |
| 175 | Iaotan sanika hanmant | Student | Female | 7262929660 |
| 115 | subrup sum a numum | Student | i emaie | 1202727000 |

| 176 | Nitin sambhaji nimbalkar | Student | Male | 9373721907 |
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| | č | B.com 1 year (| | |
| 177 | Sakshi Kashinath Kumbhar | Sonavle Sir) | Female | 7559470485 |
| 178 | Pratiksha shashikant gaikwad | Student | Female | 9022482707 |
| | | Student B.COM | | |
| 179 | Omkar ankush chavan | 3 | Male | 7219881264 |
| 180 | Akanksha Kuber Patil | Student | Female | 7972907942 |
| 181 | Akash shankar chavan | B. Com 1st | Male | 7499001033 |
| 182 | Shital dattatray khot | Student | Female | 9168441190 |
| 183 | Rushikesh Somnath hingmire | Student | Male | 9359898401 |
| 184 | Sandip Bhagavan Salunkhe | Student | Male | 7507302706 |
| 185 | Aditi dilip pawar | Student | Female | 9309919901 |
| 186 | Ashapak Ramjan Mhetar | Student | Male | 7972634001 |
| 187 | Miss. Rutuja Salunkhe | Student | Female | 9766966441 |
| 188 | Patil shivani Rajendra | SY B. Com | Female | 7058778413 |
| 189 | Dr Dattatray Balaso Thorbole | Teacher | Male | 8698586898 |
| 190 | Sandhya dhanaji shinde | Bcom III | Female | 9503346567 |
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| | | Assistant | | |
| 199 | Prakash Ranganath Khade | Professor | Male | 9423877742 |
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| 201 | Patil prashant rajendra | Student | Male | 7666871094 |
| 202 | Dhotre swapnali shankar | Student | Female | 8275254099 |
| 203 | Suwase Rohini Sunil | B.Com 1 | Female | 9096891678 |
| 204 | Jadhav Shital Shashikant | Student | Female | 8530280911 |
| | | Assistant | | |
| 205 | Sakhare Dattatray Yashwant | Professor | Male | 8605093120 |

* Participants list collected through Google Form





Resource Person Speech by Hon. Dr. Uday Lokhande







Presidential Speech by Hon. Principal Dr. Milind Hujare



Introduction Speech by Dr. Sonawale A.G.



Expressed Vote of thanks by Miss. Kamble K.H.



Anchoring by Patil G.R.



Actively participated by Prof. Khade P.R. (Chairman, Lead College Committee)

Participants



Actively Participation : Prof. Khade P.R., Mr. Patil S.M., & All the Faculty members & Students of commerce faculty in our college or other colleges.



Certificate



Dr. Amol Sonawale HOD Department of Commerce







'Dissemination of Education through Knowledge, Science and Culture'-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

PADMABHUSHAN Dr. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

Tal. Tasgaon, Dist.: Sangli.

DEPARTMET OF COMMERCE



ONE DAY WORKSHOP ON RESEARCH

METHODOLOGY



| Title of Programme | ONE DAY WORKSHO ON |
|-----------------------|---------------------------------|
| | RESEARCH METHODOLOGY |
| Organizing Department | DEPARTMENT OF COMMERCE |
| Collaboration with | - |
| Date | 24 th JANUARY, 2020. |
| Venue | ROOM NO. 28 |
| No. of Participants | 44, Male: 13, Female: 31 |

A One Day Workshop On Research Methodology was organized by Department of commerce for post graduate students.

Research: Whether you love it or hate it, you need to do it. Finding out the facts about your assignments, your job, or your life will allow you to make better decisions and gain more knowledge. In fact, the more research you do, the more you can do with your life.

Learning basic research skills is something that is lost in many educational systems. While students are often told how to find information, the Internet has become the place most people go first in order to find the facts they need.

Though the Internet is a valuable tool, it is not the only research skill a person needs in order to find the facts. Using basic research methods can help you not only find the information you need, but also find information that you can trust.

"ज्ञान विज्ञान आणि मुसंस्कार पांसाठी शिवणप्रसार" - विक्षणमहर्षी डॉ.वापूजी साळुंखे Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Department of Commerce

दिनांक १८.0१.२०२०

प्रति, मा . प्राचार्य, पी . डी . व्ही . पी . महाविद्यालय, तासगांव

> विषय : 'Research Methodology & Report Writing' एक दिवसीय कार्यशाळाा घेण्यास परवानगी मिळणेवावत.......

महोदय,

वरील विषयानुसार एम कॉम भाग १ व २ साठी 'Research Methodology & Report Writing' या विषयाची दि २४ .०१.२०२० रोजी एक दिवसीय कार्यशाळा घेण्यास परवानगी परवानगी मिळावी ही विनंती.

कळावे,

Horman

आपला विश्वास.

nan

(डॉ.सोनवले.ए.जी.) HEAD Department of Commerce P.D.V.P.College,Tasgaon./ "গ্লন বিশ্লন আজি দুননকাৰ থানাঠা নিজগদেশন" - নিজগদলমী হাঁ - বাদুসী নাজুন্দ্ৰ Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Department of Commerce

Date: 18.01.2020

Notice

All the students of M. Com. I & II year are hereby informed that a one day workshop on "Research Methodology and Report Writing" is going to be organized on 23rd January 2020. Register you name through college website (*pdvpmtasgaon.edu.in*) before 23rd January 2020.

(Dr. Sonawale A.G.) HEAD Department of Commerce P.D.V.P.College,Tasgaon.

tare through delegations and an interface of a station when a second course he complete complete entropy the average in an a पद्मभूषण डॉ॰ वसंतरावदादा पाठील महाविद्यालय 11-11-111 (Dr. Windt, Tre - Vic. 142 W 110 - 023VC- 240 fermoff familie, oftennye viern . -the stan polypin tascippmail com therefor a www.polypinitasgaono édui kr 400 'd1'" 22 101.00 धवाणमहार्थी हाँ, वाचूनी सार्खुखे मा. चंद्रवर्मत (कृक) पार्टीत कर्णाक के क प्रावार्थ अभयकुमार राष्ट्रंसे पावार्था हो. शुभांगी गवतडे हाँ, शितिंग्द एस 201 -.... जायक क. : पी.डी.फी.पी.एम.टी./1451 Rein: 2 0/01/2020 To, Dr. Patil Kailas Sunil Head, Department of Economics, Vivekanand College, Kolhapur Invitation as a Resource Person for the One day Workshop...... Subject : Respected Sir, We are very glad to inform you that Department of Commerce is going to organize one day workshop on "Research Methodology and Report Writing" to be held on Thursday 23rd January 2020 at 10:30 am. You are requested to accept the invitation as a Resource Person for this workshop. So kindly accept the invitation. Thanking You, Yours sincerely, (Da-19) Hindi Sa Hujare) Padmabhushen Dr. Yasantraodada Pat-Mahavidyalaya, Tasgaon, (Sangil) 4

"Dissemination of Education for Knowledge, Science and Culture" -Shikaluanmaharshi Dr. BapujiSalunkhe Shri Swami VivekanandShikabanSanstha, Kolhapur Sanchlit

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya,

Tasgaon, Dist- Sangli, Pin-416312

DEPARTMENT OF COMMERCE

Organized ONE DAY WORKSHOP

On

"RESEARCH METHODOLOGY AND PROJECT WRITING"

Date: 23rd January 2020

| | 1 | First Session (Time-11:00 to 01:00) | | |
|-----------------|-----|---|--|--|
| Introduction | ; | Prof. G. R. Patil | | |
| Resource Person | 1 | Dr. Kailas Sunil Patil | | |
| | | Vivekanand College, Kolhapur | | |
| Subject | 1 | "Introduction to Research Methodology" | | |
| President | : | Dr. Milind Hujare | | |
| | | Principal, PDVP Mahavidyalaya, Tasgaon | | |
| | W | orking Lunch (01:00 to 02:00) | | |
| | S | econd Session (Time-02:00 to 04:00) | | |
| Resource Person | : | Dr. Kailas Sunil Patil | | |
| | | Vivekanand College, Kolhapur | | |
| Subject | 1 | "Project Writing " | | |
| President | 1 | Prof. K.S. Patil | | |
| | | Vice Principal, PDVP Mahavidyalaya, Tasgaon | | |
| | See | cond Session III (Time-04:00 to 05:00) | | |
| | | Discussion and Valedictory | | |
| Chief Guest | | Dr. Kailas Sunil Patil | | |
| President | | Prin. Dr. Milind Hujare | | |
| Vote of Thanks | | Prof. Kamble K.H | | |
| Anchor | | Prof. Shinde V.P | | |
| | | | | |

| Dissemination of Education t | through Knowledge, | Science and Culture | -Shikshanmaharshi Dr. | . Bapuji Salunkhe |
|------------------------------|---|---------------------|-----------------------|-------------------|
| | a second s | | 1.1 44 | |

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist-Sangli

Commerce Department

| Research Method | dology and Report \ | Writing DL 23 | .01.2020 | |
|---------------------|---------------------|---------------|----------------|--|
| | | | | |
| Final | Melsia | Condat | Distinguisting | |

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Commerce Department

Research Methodology and Report Writing Dt. 23.01.2020

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Commerce Department

Research Methodology and Report Writing Dt. 23.01.2020

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| 2 | Shruti | Gaikwad | Snehagaikwad77244@gmail.com | 7841941065 | Female | Student | M Com II | Contumed. |

| mination of Education | a through Knowledge, Science and Culture"-Shikshanmaharshi Dr. Bapuji Salunkh |
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admabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tangaon Dist-Sang

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| 44 | Ranjeet | Kumbhar | kumbharranjeet55@gmail.com | 9766647205 | Male | Asst.Professor | | |



Dr. Kailas Patil while guiding the students about Research Methodology



Students participating in the workshop

Dr. A. G. Sonawale Head, Department of Commerce



Internal quality assurance cell (IOAC), of Padmabhushan Dr. Vasantraodada Patil College. Tasgaon and Shri Vijaysinha Yadav college, Peth Vadgaon organized National webinar on "Basics of IPR: Patenting in Academic Research" on 17th March 2021 at 11.00 am. In this programme Prin. Dr. Vijaya Chavan, has given preface of the program. Dr. C. B. Mane Coordinator, IQAC introduced resource person of the webinar. Princ. Dr. Milind Hujare has addressed the presidential talk and Dr. Rajaram Atigre has expressed vote of thanks.

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WEBINAR REPORT NATIONAL WEBINAR ON

"BASICS OF IPR: PATENTING IN ACADEMIC RESEARCH"

Organized By

Internal Quality Assurance Cell (IQAC)

- 1. PADMABHUSHAN DR, VASANTARAODADA PETIL MAHAVIDHYALAYA, TASGAON (SANGLI), MS, INDIA
- 2. VIJAYSINHA YADAV COLLEGE, PETH VADGAON (KOLHAPUR), MS, INDIA

RESOURCE PERSON

Dr. Mrudula Bele, Associate Professor, NDMVP's College of Pharmacy, Nashik

PLATFORM OF WEBINAR



Google Meet

Organizers

Prin. Dr. Milind Hujare Padmabhushan dr, vasantaraodada petil mahavidhyalaya, tasgaon

Prin. Dr. Vijaya Chavan

VIJAYSINHA YADÁV COLLEGE, PETH VADGAON

PARTICIPATION OF STUDENTS

| No. of respondents Registered | No. of total respondents Participated | Out of State | Level |
|-------------------------------------|---|--------------|----------|
| 306 | 101 | 26 | National |

Abstract of Webinar

Dr, Mrudula Bele, Chief Guest in her address, insisted the participants for filing of patents of their academic research and innovations to protect their intellectual work. She expressed that, this workshop will enlighten the participants to go for filing of patents, industrial design and copy rights of their research work and innovations. "Basics of Intellectual Property Rights, Emerging Trends in IPR Legislation in Industry and scope of IPR academic research.

In webinar, students, academician, researchers and doctors from different institutions participated. Experts from different patent facilitations centers and IP analysists gave talk on IPR and litigation issues.



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| • Perface & We | ekonar : | Prin. Dr. Vijaya C | hirton |
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| + Resource Por | mes Address : | Dr. Mrudala Bele, | |
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| Welcome Speech | Introductory Speech | Chief Guest's Speech | Presidential Speec |
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| By Prin. Dr. Vijaya Chavan | By Dr. Chandrakant Mane | By Dr. Mrudula Bele | By Prin. Dr. Milind Hujare |



Prin. Dr. Millind S. Hujare Principal Patrathustan Dr. Visartroctata Patl Mahavdyalaya, Tasgaon (Sangl). "Dissemination of Education for Knowledge, Science and Culture" -Shikshanmaharashi Dr. BapujiSalunkhe Shri Swami VivekanandShikshanSanstha Kolhapur PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON, SANGLI-416213, MAHARSHTRA

Report on

One Day Workshop on Intellectual Property and Patenting System

| Event: | One Day Workshop on Intellectual Property and Patenting System in India. |
|---------------------------|---|
| Organizing Department | IQAC |
| Date | 24 th January 2020 |
| Venue | Room No29 |
| Total Participants | 118 |

• Schedule of the Workshop

| One Day Workshop on Intellectual Property and Patenting System in India. | | |
|--|---|--|
| Date: January 24, 2020 | | |
| | Time: 11.30 am | |
| Welcome and Introduction | Prof. (Dr.) Suresh S. Patil, | |
| | IQAC Co-ordinator | |
| President: | Dr. Milind S. Hujare, | |
| | Principal, PDVP College Tasgaon | |
| Resource person: | Mr. Sagar Pol | |
| | Assistant Controller of Patents & Designs | |
| | Patent Office, Mumbai | |
| | Department for Promotion of Industry & | |
| | internal Trade | |

| | Government of India |
|-----------------|------------------------|
| Vote of thanks: | Dr. Jeevan S. Ghodake, |
| | Organizing Secretary |

Intellectual Property Rights (IPRs) are a set of exclusive rights protected by law which are accorded to creators or persons over their creations for a certain time period. An IPR holder can realize value from its intellectual assets through utilizing it internally for its own processes or share it externally through provision of goods and services to customers. The latter can be achieved through legal mechanisms such as licensing or assignment.

Intoday's globally competitive environment, intellectual property has placed itselfon a pedestal in the context of economic growth and is becoming increasingly important. Intellectual Property (IP) is the fuel that powers the engine of

prosperity,fosteringinventionandinnovation.Theincreasingsignificanceofinta ngibleassetsin the global economy is forcing business organizations to actively manage their IP as a key driver for building and sustaining their competitive advantage and achieving superiorperformance.

IPRs are now being used not only as a tool to protect creativity and generate revenue but also to build strategic alliances for socio-economic and technological

growth.Accordingly,inordertofostertheprotectionofinnovationsandcreativity, the Intellectual Property Office under the Ministry of Commerce and Industry is dedicated to mobilize the use of such technological advancement for the economic development of thecountry.

The generation of IP largely takes place at the State level through small,

medium and big industries, academic institutions and individuals. Most States have not yet evolved their IP strategies and ecosystems interms of effective facilitating services for all sectors including MSMEs and start-ups, creating awareness, conducting training programs, systems for utilization of IPR etc. States needs to maximize the benefits from their intellectual property by stimulating higher levels of innovation through a judicious system of rewards, ensuring timely and effective legal protection for IP and leveraging strategic alliances for enhancing the value of the intellectual property created inthe State.

Taking into consideration of importance of IPR, Internal Quality Assurance Cell of college organizedone day workshop on Intellectual Property and Patenting System in India for to aware students and faculty members about IPR on 24th January 2020.

The workshop was intended to spread the awareness of intellectual property rights among the students and faculty. Eminent resource person in the field of IPR were invited to enlighten on the subject.

INAUGURATION

Mr. Sagar Pol, (Assistant-----)inauguratedworkshop. The president of the seminar was our College Principal Hon.Dr. MilindHujare. Prof. Dr. S. S. Patil welcomed and introduced the Chief Guest. Mr. Sagar Pol expressed about various types of Intellectual Property and Patenting System. The president Principal Hon. Dr. MilindHujare in his presidential speech said about all rounded development of College. He focused the vision and expected progress in future. Finally, Dr. JivanGhodake expressed vote of thanks.



Welcome of Chief Guest Mr. Sagar B. Pol



Keynote address by Chief Guest Mr. Sagar B. Pol





FIRST SESSION

The Chief Guest and Speaker of the first session Mr. Sagar Pol(Assistant ----), he expressed the concepts of Intellectual Property, Patents, Copyrights and Trademarks with real time examples and case studies of Hush Puppies, Kearns v/s Ford Motors (Windshield wipers) etc. The president of this session was Prof. Dr. S. S. Patil told popularly used for public utility and technology share. The requirements and procedure for obtaining the Patent, Novelty and Technological inventions and eligibility to obtain the same was briefed in the session. Mr. SachinShinde expressed vote of thanks.



Introduction of Chief Guest by Prof . Suresh S. Patil



Presidential address by Prin. Milind S. Hujare

SECOND SESSION

Second Secession was discussionabout intellectual Property, Patents. How application of patens, acts of patens, about Copyrights Law Administration and Enforcement in India, Copyrights Protective Work, who can obtain Copyrights , the Bundle of Rights associated with Copyrights and the term of Protection of Copyrights in different fields were discussed issue in this second secession.

VALEDICTORY FUNCTION



Participant students and faculty







Dissemination of Education through Knowledge, Science and Culture'-Shikshanmaharshi Dr. Bapuji Salankhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

PADMABHUSHAN Dr. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

Tal.: Tasgaon, Dist.: Sangli.

One day workshop on

Intellectual Property and Patenting System in India

Organized By

INTERNAL QUALITY ASSURANCE CELL (IQAC)

CERTIFICATE

Dr. Jeevan S. Ghodake Organizing Secretary

Prof. (Dr.) Suresh S. Patil **IQAC** Coordinator

Dr. Mind S. Hujare Principal
Prof. Dr. S.S.Patil introduced guests. Mr. Sagar Pol was the Chief Guest of Valedictory Function. Our College Principal Hon. Dr. MilindHujare was president this function. The Chief Guest informed and instructed the challenges and difficulties before Indian Economy after globalization. Principal Dr. MilindHujare explained need and utility of national seminars for the development. Mr. A. Jagdale expressed vote of thanks.

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Dr. Jeevan S. Ghodake Organizing Secretary

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Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist- Sangli INTERNAL QUALITY ASSURANCE CELL

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| Momin | patil | phalake | Jadhav | Varude | Mane | Thakur | dabhade | nalavade | Vedpathak | Ghali | Shinde | ATTAR | Salunkhe | Medhe | Shinde | last_name |
| A/P vita, tal. Khanapur, dist. | A/P Nagaon Kavathe | A\P : Ashta, Tal: Walwa, Dist: : Sangli | Plot No.77,A ward, Hari Mandir | A/p Kundal,Tal-Palus,Dist- Sangli | A/P Turachi | 213 South Shivagi Nagar, Sangli | Ap Tadvale Tal:shirala dist:sangli | waiphale tasgaon | At/Post-Hivare, Tal-Kahanapur, Dist-Sangli | A/P Ichalkaranji TalHatkangle. DistKolhapur | Shinde Galli, Tasgaon | 7th Iane,Gandhi chowk,Jaysingpur | A P Arawade | A/P-Parite, Tal-Karveer Dist- Kolhapur | Shinde Galli, Tasgaon | Address |
| mswaleha29@gmail | minalpatil483@gma il.com | prachiphalke2@gm ail.com | priyankajadhav2269 8@gmail.com | shwetavarude2018 @gmail.com | shankarmane.dt@g mail.com | tpayl1917@gmail.co m | shrutika55dabhade @gmail.com | djnalavade@gmail.c om | , skvedpathak08@gm ail.com | , radhikaghali682@g mail.com | pragativs1997@gma il.com | ayeshaattar2495@g mail.com | @gmail.com | aishwaryamedhe5@ gmail.com | pragativs1997@gma il.com | Email |
| 7218023969 | 8530801183 | 9730858534 | 7768022068 | 8983387616 | 7620218737 | 9156766114 | 8275437256 | 8975227886 | 9730653415 | 7972997172 | 8055048962 | 7709488997 | 9730975614 | 7744972980 | 8055048962 | Mobile |
| PDVP college | P.D.V.P.College Tasgaon | PDVP college | PDVP College,Tasgaon | P.D.V.P College,tasgaon | P.D.V.P.college,Tas gaon | P.D.V.P. Tasgoan | PDVP college | pdvp tasgaon | P.D.V.P. College, Tasgaon | pdvp college tasgon | PDVP College, Tasgaon | P.D.V.P. COLLEGE ,TASGOAN | P.D.V.P.college,Tas gaon | PDVP College, Tasgaon | PDVP College, Tasgaon | College_Name |
| 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | Date |
| Female | Female | Female | Female | Female | Male | Female | Female | Male | Female | Female | Female | Female | Female | Female | Female | Gender |
| Student | student | student | Student | Student | student | Student | student | teacher | Student | 1 | 1 | 1 | student | Student | | Designatio |

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Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist-Sangli INTERNAL QUALITY ASSURANCE CELL

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| 13 865 Sad 14 866 Dh 15 867 Ad | 13 865 Sac 14 866 Dh | 13 865 Sad | | 12 852 Dr. | 11 841 Sat | 10 764 Ta | 9 750 SU | 8 696 Ra | 7 691 Pra | 6 524 Ru | 5 472 Dr. | 4 470 Jet | 3 395 sh | 2 329 Sa | 1 325 As | No ND | |
|--------------------------------------|-----------------------------|---|---------------------------------------|----------------------------------|----------------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------------|---|--|-----------------------------------|---|-------------------------------|---|--------------|---------------------|
| | wait | anaji | chinkumar | Vinodkumar | tyajit | toba | NIL | hul | ajwal | shikesh | Alka | evan | ridhar | gar | hutosh | First_Name | |
| | shinde | Jadhav | Shinde | Kumbhar | Bhosale | Badame | GAVIT | Koli | Kumbher | Patil | Inamdr | Ghodake | thoravat | Shinde | Jagdale | List_name | 1 |
| A/D Inhalkaranii Tal -Hatkando | A/P vadiyeraibag | A/P Kavthe Piran, Tal: Miraj, Dist: Sangli Pin Code:416417 | At. Post. Balagavade, Tal. Tasgaon | PDVP College, Tasgaon | A/P kavathe mahankal ,sangli | Tasgaon | P. D. V. P. COLLEGE | A/T post tasagaon | A/t post Tasgaon | At post Khujgaon tal tasgaon dist sangli | 79, Rajasaheb Bunglow, Rajnagar, Sangli | PDVP College, Tasgaon | At post waghapur tal tasgaon dist sangli state maharashtra | PDVP College, Tasgaon | C/O RAVINDRA MADHUKAR GURAV, FLAT NO. 4, | Address | One day Workshop o |
| radhikaghali682@g | adishinde5592@gm ail.com | dhanajijadhav757@ gmail.com | sachinshinde888@g mail.com | vinodkumarkumbha r9@gmail.com | Bhosalesatyajit999 @gmail.com | drtatoba@gmail.co m | sunilgavit111@gmai l.com | Rahulkoli1385@gm ail.com | Prajwalkumbhar420 01@gmail.com | rushikeshp584@gm ail.com | dralkapatil1@gmail. com | jeevan.ghodake@re diffmail.com | shridharthoravat654 @gmail.com | sagarshinde1193@g mail.com | aajagdale007@gmai L.com | Email | on Intellectual Pro |
| CENTOGRAD | 8275176464 | 9096630757 | 9730559905 | 9975564622 | 8530545507 | 9850677039 | 9404585979 | 9172257364 | 9960506171 | 9075645242 | 9420679006 | 9860122466 | 9975374700 | 9503235822 | 8888036120 | Mobile | perty and P |
| pdvp college | pdvp tasgaon | PDVP College Tasgaon | PDVP College Tasgaon | P.D.V.P.College, Tasgaon | PDVP college tasgaon | P.D.V.P.College,Tas gaon | P. D. V. P. Mahavidyalaya | PDVP college | PDVP college | PDVP COLLAGE TASGAON | PDVP college Tasgaon | PDVP College, Tasgaon | Pdvp college tasgaon | P.D.V.P. College, Tasgaon. | PDVP College | College_Name | etenting System |
| 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/21/2020 | 1/19/2020 | 1/18/2020 | 1/18/2020 | 1/17/2020 | 1/17/2020 | 1/16/2020 | 1/16/2020 | 1/16/2020 | 1/16/2020 | 1/15/2020 | 1/15/2020 | Date | in India, D |
| Female | Male | Male | Male | Male | Male | Male | Male | Male | Male | Male | Female | Male | Male | Male | Male | Gender | t. 24/0 |
| chiden | tasgaon | Assistant Professor | Assistant Professor | Assistant Professor and | | Assistant Pro | Assistant professor | | | | Ass. Prof. | Assistant pro | rulglar | Assistant Professor | Asst Professo | Designatio | 1/2020 |

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INTERNAL QUALITY ASSURANCE CELL

| 169 | 165 | 167 | 991 | 165 | 191 | 163 | 162 | 191 | 160 | 651 | 231 | Sr. No. |
|-----------------------------|-----------------------------|--------------------------|-------------------------------|--------------------------------|---|-----------------------------|----------------|------------------------------|-------------------------------------|---|-------------------------------|--------------|
| 1172 | 1171 | 1170 | 1169 | 1168 | 1165 | 1164 | 1163 | 1162 | 1155 | 1154 | 1150 | ē |
| Snehali | Snehali | Swati | Ashwini | Vaishali | Sagar | Komal | Mayuri | SUNIL | Ranjeet | Darshana | Dattatrayy | First_Name |
| Mali | Mali | Jadhav | Patil | Patil | Salunkhe | Mali | Vasudev | GAVIT | Kumbhar | Divate | Sakhare | Last_name |
| Tasgaon | | PDVP College, Tasgaon | P.D.V.P.College tasgaon | | At post Dhalewadi Tal Kavathe Mahankal | At post tasgaon | At post tsgaon | Tasgaon | Tasgaon | A/P-Mayani Tal-Khatav Dist- Satara | TASGAON | Address |
| malisnehali66@gma il.com | malisnahali66@gma il.com | sdj31@yahoo.co.in | patilashwini791@g mail.com | vaishalipatil494@g mail.com | Sagarsalunkhe9697 @gmail.com | komalmali9299@g mail.com | @gmail.com | sunilgavit111@gmai L.com | kumbharranjeet55 @gmail.com | Darshanadivate777 @gmail.com | dattatrayys2018@g mail.com | Email |
| 8788909868 | 8788909868 | 9371491200 | 7387915705 | 9518388838 | 8329275182 | 7843074935 | 7447553059 | 9404585979 | 9766647205 | 8975967163 | 8605093120 | Mobile |
| P.d.v.p.college | PDVP College Tasgaon | PDVP College, Tasgaon | P.D.V.P.College Tasgaon | PDVP College Tasgaon | Pdvp College tasgaon | Pdvp tasgaon | Pdvp tasgaon | P. D. V. P. Mahavidyalaya | P.D.V.P Mahavidyalaya Tasgaon | Pdm. Dr vasantraodada pati mahavidyalay, tasgaon | PDVPCOLLEGE | College_Name |
| 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | Date |
| Female | Female | Female | Female | Female | Male | Female | Female | Male | Male | Female | Male | Gender |
| Assist | Assist | Assist Profes | Assista Profes | Assist | Stude | Stude | Stude | Assist | Asst.Pro | Stude | PROFES | Designa |

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| 157 | 951 | 15 | 154 | 153 | 152 | 151 | 150 | 143 | 148 | 147 | 140 | 145 | Sr. |
|----------------------------------|--|-------------------------------|-------------------------------|------------------------------|-------------------------|--------------------------------|------------------------------|---|--|---|-------------------------------|-----------------|--------------|
| 1149 | 1148 | 1147 | 1146 | 1145 | 1143 | 1142 | 1139 | 1138 | 1137 | 1136 | 1135 | 1129 | 5 × |
| Rajaram | Nisha | Dattatrayy | Dattatrayy | Sujata | Megha | Swati | Vipul | Vijay | Dattatray | Amit | Gajanan | Mayuri | First_Name |
| Manker | Kudale | Sakhare | Sakhare | Mali | Patil | Ghatage | Mohite | Kate | Thorbole | Mali | Pawar | Vasudev | Last_name |
| Tasgaon | At.po.Bhavaningar tal.walwa dist.Sangli | PDVP,College, Tasgaon | PDVP,College, Tasgaon | Pdvp college Tasgaon | | Pdvp,college tasagaon | A/p Mohite vadgaon | Ap post Lotewadi 413306 At post Lotewadi, tal - sangola, dist - solapur | P D V P College Tasgaon dist sangli | Dattanagar, Miraj | Tasgaon | At post tasgaon | Address |
| rajarammanker@re diffmail.com | nishakudae395@gm ail.com | dattatrayys2018@g mail.com | dattatrayys2018@g mail.com | sujatamali.133@gm ail.com | mupatil30@gmail.c om | GHATAGESWATI229 2@GMAIL.COM | vipulmohitek11@g mail.com | Katev9797@gmail.c om | dbthorbole@gmail.c om | amitgeo008@gmail. com | gajananpawar121@ gmail.com | @gmail.com | Email |
| 9096505286 | 9021914548 | 8605093120 | 8605093120 | 8806069770 | 8830046904 | 9503695021 | 9766048870 | 7620628679 | 8698586898 | 8208447808 | 9823231814 | 7447553059 | Mobile |
| PDVPCOLLEGE, TAS GAON | Pdvp | PDVPCOLLEGE | PDVPCOLLEGE | pdvp college Tasgaon | PDVPcollegeTasgao n | PDVP college,tasgaon | PDVp college | PDVP college tasgoan | P d v p college tasgaon dist Sangli | Padmabhushan Dr Vasantraodada Patil Mahavidyalaya Tasgaon | PDVP College Tasgaon | Pdvp tasgaon | College_Name |
| 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/24/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | Date |
| Male | Female | Male | Male | Female | Female | Female | Male | Male | Male | Male | Male | Female | Gender |
| Assiso | Maste | PROFES | PROFES | Assist | Assista | Assist | | | Assist | Assist Profes | Assi.Prof | Stude | Designa |

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| 144 | 143 | 142 | 141 | 140 | 139 | 138 | 137 | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 | Sr. |
|-----------------------------|-------------------------------|---|--|------------------------------|--|------------------------------|--|-----------------------------|---|---------------------------|-----------------------------|---|--------------------------------------|--------------------------------------|--|--------------|
| 1125 | 1120 | 1119 | 1118 | 1117 | 1116 | 1115 | 1114 | 1113 | 1110 | 1109 | 1102 | 1101 | 1100 | 1099 | 1098 | ō |
| Komal | Priyanka | Sanyogeeta | Pravin | SUNIL | Ankita | Kisan | Rupesh | Ajay | Parvati | BANDU | Arjun | Shashikant | Audumbar | Sunil | Subhash | First_Name |
| Mali | mali | Desai | Sawale | GAVIT | Yadav | Patil | Patil | Tarange | Mali | KADAM | Kumbhar | Sale | Kodag | Kavatagi | Rankhambe | Last_name |
| At nost taseaon | At post tasgaon dist.sangli | A/P vihe, Tal-Patan, Dist- Satara, Pin No-415114 | Ap Anjani Tal Tasgoan Dist Sangli Maharashtra | Tasgaon | A/P - Ramanandnagar Tal- Palus, Dist-Sangli | Tasgaon, Dist -Sangli | Department of Chemistry PDVP college, Tasgoan | Tasgaon | A/P Kokale Tal.:Kavathe Mahankal Dist.:Sangli. | PDVP COLLEGE TASGAON | P D V P College, Tasgaon | At/P:Nigadhi kh Tal:Jath Dist:Sangli | At/p:Avandhi Tah:Jath Dist:Sangli | At/p:Umarani Tal:Jath Dist:Sangli | Padmabhushan Dr Vasantraodada Patil | Address |
| Komalmali9299@g mail.com | Priyankamali301@g mail.com | sanyogeetadesai050 8@gmail.com | sawalepravin92@g mail.com | sunilgavit111@gmai l.com | ankitayadav2107@g mail.com | kisanpatil1953@gm ail.com | patilrupesh984@gm ail.com | ajaytarange01@gm ail.com | parvatimali896@gm all.com | bjkadam1132@gma il.com | arjun2win@yahoo.c o.in | Shashisale3399@g mail.com | kodagaudumbar3@ gmail.com | sunilkavatagi58@g mail.com | subhashrankhambe @gmail.com | Email |
| 7843074935 | 8483987620 | 7620608879 | 9511767440 | 9404585979 | 7447523515 | 9890703623 | 7875851751 | 9766448645 | 7066972943 | 9970535723 | 9960543180 | 9657683399 | 9168324292 | 8600363302 | 8999940128 | Mobile |
| Pdvp college tasgaon | Pdvp college tasgaon | PDVP College Tasgaon | Pdvp college tasgoan | P. D. V. P. Mahavidyalaya | P. D. V. P. College, tasgaon | P.D.V.P.College, Tasgaon | PDVP college | Pdvp college Tasgaon | PDVP College,Tasgaon | PDVP COLLEGE TASGAON | P D V P College, Tasgaon | PDVP college Tasgaon | PDVP college Tasgaon | PDVP college Tasgaon | PDVP College Tasgaon | College_Name |
| 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | Date |
| Female | Female | Female | Male | Male | Female | Male | Male | Male | Female | Male | Male | Male | Male | Male | Male | Gender |
| Stude | Stude | Stude | Sawa | Assist | Asst. P | Assoc Profes | Resea | Tead | Stude | Assist Profes | Asso. Pro | | | | Labora Assista | Designa |

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| 128 | 127 | 126 | 125 | 124 | 123 | 122 | 121 | 120 | 119 | 118 | 117 | (E) | 115 | E | 113 | No. |
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| 1096 | 1094 | 1093 | 1090 | 1089 | 1088 | 1086 | 1082 | 1080 | 1079 | 1078 | 1077 | 1075 | 1073 | 1072 | 1062 | īD |
| Pratiksha | Pratiksha | Kavita | Nazneen | Mithila | Pradnya | Umesh | Kirti | haji | Shailaja | Parashuram | Chaitali | Pushpa | Jalindar A. | Sujata | Samruddhi | First_Name |
| Bhandare | Bhandare | Kumbhar | Mushrif | Sadakale | Koli | Shivpuje | Kolap | Nadaf | Kusarkar | Tell | Gavali | Kashid | Yadav | Patil | Mane | Last_name |
| P.D.V.P. Mahavidyalaya Tasgaon | P.D.V.P. Mahavidyalaya Tasgaon | PDVP collage Tasgaon | Mujawar galli guruwar peth miraj | Tasgaon | A.P.Achakanahalli, Taluka - Jath , District -Sangli | A/P- Hatnur, Tal- Tasgaon, Dist Sangli Pin- 416314 | Dept. of History, PDVP College, Tasgaon, DIST SANGLI | Dept. of History, PDVP College, Tasgaon, DIST SANGLI | Old satara road, landghole mala, Tasgaon | Dept. Of Zoology, P. D. V. P. College, Tasgson. | Tasgaon | A/p_sangli | Shanti Anand Nivas vidya nagar savali road Miraj | At post Borgaon Taluka Tasgaon District Sangli | A/P dafalapure | Address |
| Pratikshabhandare @email.com | Pratikshabhandare @gmail.com | Kavikumbhar93@ga mil.com | nazneenmulla786.n m@gmail.com | mcsadakale1995@g mail.com | pradnya8597pk@g mail.com | - shivpujeumesh@gm ail.com | hdnadaf80@gmail.c om | hdnadaf80@gmail.c om | Kusarkarshailaja199 5@gmail.com | drpbteli15@gmail.c om | chaitaligavali7@gm ail.com | pushpakashid25@g mail.com | Jalindaryadav1966 @gmail.com | sujatapatil86005265 93@gmail.com | manesamruddhi51 @gmail.com | Email |
| 8624888288 | 8624888288 | 8698035268 | 9970307405 | 9370187186 | 7218206212 | 9511989888 | 9767952132 | 9767952132 | 7058572535 | 9822866577 | 7030370550 | 8485851532 | 9422692698 | 8600526593 | 8669860288 | Mobile |
| P.D.V.P.Mahavidyal aya Tasgaon | P.D.V.P.Mahavidyal aya Tasgaon | PDVP collage Tasgaon | Pdvp Tasgaon | P. D. V. P. College, Tasgaon | PDVP college Tasgaov | P.D.V.P. College, Tasgaon | PDVP College | PDVP College | Pdvp college, Tasgaon | P. D. V. P. Colleges, Tasgaon | P.d.v.p.tasgaon | Pdvp college tasgaon | Pdvp college | PD V P College Tasgaon | Pdvp college tasgaon | College_Name |
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| Female | Female | Female | Female | Female | Female | Male | Female | Male | Female | Male | Female | Female | Male | Female | Female | Gender |
| Assist profess | Assist profess | Assitant professor | | Assistant Professor | Student | Student | Asst Prof. | Asst Prof. | Assistant professor | Assistant Professor | Assistant professor | Assistant Professor | Aaso. | Master of science | Msc | Designatio |

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INTERNAL QUALITY ASSURANCE CELL

| (HIZ | 111 | (1) | 601 | 108 | 107 | 106 | 205 | 104 | 103 | 102 | Tor | 100 | 66 | 3 | (9) | SF. |
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| 1061 | 1055 | 1054 | 1050 | 1047 | 1045 | 1044 | 1043 | 1040 | 1039 | 1036 | 1034 | 1033 | 1032 | 1031 | 1030 | ō |
| Poonam | arjun | Priyanka | Rameshwari | Snehal | Utkarsha | Pranali | Sanjay | Sneha | Snehal | Rohini | Ajit | Ganesh | Vijay | Sangram | Prasad | First_Name |
| Dubal | wagh | Mali | Patil | Patil | Patil | Karande | Phadatare | Patil | Patil | Patil | Jadhav | Awasare | Sankpal | Pawar | Datar | Last_name |
| A/p-soni tal miraj ,dist-sangli | 165/3c, plot no 6,mangai colony,no 1,shahu | At.post tasgaon | At post Borgaon Taluka Tasgaon District Sangli | Ap tasgaon dis sangli | Ap bedag tal Miraj dis sangli | AP miraj tal Miraj dist sangli | At/ P: watambare Tah: sangola Dist: solapur | At post Sangli Taluka Miraj District Sangli | At Post Belanki , Tal-Miraj, Dist Sangli | At post Bedag Taluka Miraj District Sangli | At Post sultangade tal khanpur Districts Sangli | Pundi road vita naka tasgaon. | At post sagaon Tal shirala dist sangali | At post sonkire Tal kadegaon dist sangli | Sant Dnyaneshwar Nagar Budhgaon Tal. Miraj Dist. | Address |
| poonamdubal220@ | arjunwagh2011@g mail.com | Priyankamali301@g mail.com | rameshwarit755@g amil.com | smpatil2203@gamil. com | utkarshapatil96@g mail.com | karandepranali55@ gmail.com | sanjayphadatare7@ gmail.com | patilsneha2607@g mail.com | -snehalpatil010298@ gmail.com | rohiniutkarsha99@g mail.com | @gmail.com | ganeshawasare21@ gmail.com | vijaysankpal12298@ gmail.com | sangrampawar61@ gmail.com | Prasaddatar19@gm ail.com | Email |
| 7709181172 | 8329309410 | 8483987620 | 8600857617 | 7387927671 | 7028549741 | 9607768939 | 8669390974 | 7776085606 | 7558395930 | 7498774416 | 7775920115 | 9422386515 | 7218630049 | 7038215481 | 9561514874 | Mobile |
| Pdvp college | Pdvp college tasgaon | Pdvp college | PD V P College Tasgaon | Pdvp clg tasgaon | Pdvp clg tasgaon | Pdvp college tasgaon | PDVP college Tasgaon | PD V P College Tasgaon | Pdvp clg Tasgaon | PD V P College Tasgaon | PDVP dg Tasgaon | PDVP Tasgaon | PDVP COLLEGE TASGAON | Pdvp college tasgaon | PDVP Tasgaon | College_Name |
| 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | 1/23/2020 | Date |
| Female | Male | Female | Female | Female | Female | Female | Male | Female | Female | Female | Male | Male | Male | Male | Male | Gender |
| Master of | Assistant Professor | Master of science | Master of science | Master of science | Master of science | Master of science | Studeu | Master of science | Student | Master of science | Student | Stude | shudu | studeu | studen | Designat |

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| St | | | | One day Workshop | on Intellectual Pro | perty and Po | etenting System | in India, D | t. 24/01 | /2020 |
|------|------|------------|------------|---|---------------------------------------|--------------|----------------------------|-------------|----------|-------|
| No. | 5 | First_Name | Last_name | Address | Email | Mobile | College_Name | Date | Gender | Pe |
| | 86 | 3 ATISH | PAWAR | A/p - Sangola , Tal - Sangola Dist - Solapur | atishspawar1997@g mall.com | 7219456124 | Pdvp college , Tasgaon | 1/22/2020 | Male | Stude |
| 82 | 98 | 5 Vaibhav | Sutar | A/p - Aanjani , Tal - Tasgaon, Dist- Sangli | Vaibhavsu200@gma II.com | 9890135036 | Pdvp college tasgaon | 1/22/2020 | Male | Stud |
| 83 | 99 | 1 Devendra | Shinde | Tasgaon Dist sangali | devendrashinde201 7@gmail.com | 9503581050 | PDVP college tasgaon | 1/22/2020 | Male | Lectu |
| 84 | 66 | 2 Yogesh | Gejage | At/Post-Ajnale Tal-Sangola Dis- Solapur | yogeshgejage11@g mail.com | 9960901848 | P.D.V.P.college Tasgaon | 1/22/2020 | Male | Stud |
| 85 | 1000 | Ranjeet | Patil | A/p : rajapur dist : tasgaon | ranjeetpatil95cool@ gmail.com | 9975885186 | PDVP College tasgaon | 1/22/2020 | Male | Stud |
| 86 | 100 | 1 Pooja | Chougule | AP manerajuri tal tasgaon dist sangli | vilas.chougule5251 @gmail.com | 8625953981 | Pdvp college tasgaon | 1/22/2020 | Female | Mas |
| 87 | 100 | Rushikesh | Kshirsagar | At post kavhe | rushikeshkshirsagar 1811@gmail.com | 7350488518 | PDVP COLLEGE TASGAON | 1/22/2020 | Male | st |
| 88 | 100) | Soheb | Jamadar | A/P Herwad Tal - shirol Dist - Kolhapur | sohebjamadar68@g mail.com | 9370570164 | Pdvp college tasgoan | 1/22/2020 | Male | 5 |
| 89 | 1009 | Omkar | mahajan | Ap kavlapur | omkarmahajan43@ gmail.com | 8830898332 | pdvp,tasgaon | 1/22/2020 | Male | Tasg |
| 9 | 1016 | Abhishek | Deshmukh | A/p khujgaon , Tal- Tasgaon , Dist- Sangli | abhishekdeshmukh 687@gmail.com | 7387530557 | Pdvp College Tasgaon | 1/22/2020 | Male | Khuj |
| 92 | 1017 | Sayali | Lavate | Kolhapur | sayalilavate95@gm ail.com | 9359254725 | PDVP college | 1/22/2020 | Female | Worl |
| 92 | 1020 | Revati | Lohar | Kolhapur | revtilohar@gmall.co m | 9511938550 | PDVP | 1/22/2020 | Female | Worl |
| (93) | 1023 | Priti | Shingate | Gondavale | Pritishingate@gmail .com | 8080641230 | PDVP Tasgaon | 1/22/2020 | Female | Work |
| 94 | 1024 | Surekha | Shembade | Ajanale | surekhashembade2 47@gmail.com | 9146725300 | PDVP Tasgaon | 1/22/2020 | Female | Wort |
| 95 | 1028 | Aditya | Bhasme | A/P Chinchani Tal.Tasgaon Dist.Sangli | adityabhasme1998 @gmail.com | 7515653584 | P.D.V.P. Tasgaon | 1/23/2020 | Male | Chen |
| 8 | 1029 | Hrishikesh | Pandeji | Gaonbhag Budhgaon | rushikeshpandeji97 66@email.com | 9763757790 | PDVP Tasgaon | 1/23/2020 | Male | 2 |

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| 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com Sidzadbuke13@gma il.com kiranskarajgar@gma il.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com Sidzadbuke13@gma il.com kiranskarajgar@gma il.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com Sidzadbuke13@gma il.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com Shendageashwini25 | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com Sidzadbuke13@gma Il.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com Sidzadbuke13@gma il.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com Shendageashwini25 @gmail.com Sidzadbuke13@gma il.com kiranskarajgar@gma il.com | 898386@gmail.com 6nikitapatil@gmail.c om 6nikitapatil@gmail.c om sawantsampada195 @gmail.com kavitakoshti771@g mail.com Shendageashwini25 @gmail.com Sidzadbuke13@gma il.com kiranskarajgar@gma il.com kiranskarajgar@gma il.com |
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| Mane | Padalkar | Mane | Khilari | Waghamode | Mulla | shinde | kamble | Malwade | Gurav | Dhale | Patil | Patil | Jadhav | Patil | Patil | Last_name |
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| aishwaryamane283 @gmail.com | anjanapadalkar0199 7@gmail.com | omkarmane1503@g mail.com | Poonamkhilari78@g mail.com | lwaghamode2@gm ail.com | Sumaiyyamulla020 @gmail.com | shinderohan341@g mail.com | komalkamble848@g mail.com | shubhammalwade2 015@gmail.com | Samruddhigurav167 O@gmail.com | abhishekdhale196@ gmail.com | psanyuja@gmail.co m | 6nikitapatil@gmail.c om | niveditajadhav96@g mail.com | shreyapatil705@gm ail.com | surajpati1687@gm ail.com | Email |
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Webinar Report





Principal Dr. Milind Hujare Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist. Sangli

Dr. Ajay Ambhore Program Convener

Dr. Alka Inamdar Coordinator, IQAC

Monday, 20th Sept. 2021

Intellectual Property

One Day Online National Webinar on

Intellectual property Right & Patent Filing







"ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार" - शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshanan Sansths Kolhapur

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON DIST – SANGLI

(Affiliated to Shivaji University, Kolhapur)

Research and Innovation Committee

One Day Online National Webinar on

INTELLECTUAL PROPERTY RIGHTS AND PATENT FILING



"Dissemination of Education through Knowledge, Science and Caluere" -Shikshanmaharshi Dr. Bapuji Sabakh Shri Swami Vivekanand Shikshan Sanstha Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya Tasgaon, Sangli (MS), India-416312 (Affiliated to Shivaji University Kolhapur)

RESEARCH AND INNOVATION COMMITTEE IN ASSOCIATION WITH INTERNAL QUALITY ASSURANCE CELL (IQAC) PRESENTS

National Webinar on "Intellectual Property Rights and Patent Filing"



Resource Person Dr. M. M. Betkar Principal, Shri Kumarswami Mahavidyalaya, Ausa, Latur

PATRONS

Hon. Prin. Abhaykumar Salunkhe

🗆 Hon. Prin. Shubhangi Gawade

Hon. Prin. Dr. R. V. Shejwal Joint Secretary (Administration)

Hon. Prin. S. M. Gawali

Joint Secretary (Finance)

Shri Swami Vivekanand Shikshan Sanstha Kolhapur



Date & Time 20th Sept. 2021 11:30 am onwards



Register Here

Registration link: https://bit.ly/IPRRegistrationLink

WhatsApp Group: https://bit.ly/IPRWhatsAppGroup

With Regards,

Dr. Milind S. Hujare, Principal

Dr. Alka P. Inamdr, IQAC Coordinator

Dr. Ajay N. Ambhore Chairman, Research & Innovations (9850625682)



Chairman

Secretary

Organizing Committee Dr. Pawan B. Teli (9822866577) Dr. Sachinkumar K. Shinde (9730559905) Dr. Haji D. Nadaf (9767952132)



Intellectual Property Rights and Patent Filing

| > Event | Intellectual Property Right and Patent Filing |
|-------------|---|
| > Date | 20 st Sept. 2021 |
| > Organizer | Research and Innovation Committee |
| ≻ Mode | Online |

PARTICPANTS

| Participant | Male | Female | Total |
|-------------|------|--------|-------|
| Students | 92 | 84 | 176 |
| Faculty | 104 | 103 | 207 |
| Total | 196 | 187 | 383 |







Intellactual Property Rights and Patent Filing

A one day National webinar titled 'Intellectual Property Rights and patent Filing' was organized by Research and Innovation Committee with IQAC on Monday, 20th Sept. 2021. The webinar was commenced at 11:30 o'clock.

Intellectual Property Right plays a key role in gaining advantages position to uphold economic growth of our nation. India enjoys a large asset of R&D personnel and infrastructural facilities. Scientists and policy makers need more information, orientation and facilities for protecting the products of intellectual skill of Indian Scientists. Hence this workshop was organized to aware about the IPR college faculty and students.

Content of the webinar

Following are the topics which were covered in this webinar

- Intellectual Property Rights (IPRs) An Introduction with need of its protection
- Copyright and Trademark Management in India.
- Ethical Issues related to IPR
- Compulsory licensing and Bolar Exemption in India
- Procedure of Patent filing, Commercialization of patents
- Patent System in India and National Biodiversity Biotechnological inventions
- Tools for Patent Searching Panel Discussion on Life Science Inventions

Intellectual property right (IPR) is the rights granted to the creators of intellectual property and include trademarks, copyrights, patent, industrial design rights and some jurisdictions and trade secrets. Rather than protecting possessions, intellectual property law protects exclusive rights to use or reproduce the intellectual property (IP). Copyrights protect expression while patents protect inventions and neither protects ideas.



Participant

More than 380 participants are participate from all over the India like Rajasthan, Punjab, Andhra Pradesh, Karnataka, Chhattisgarh, Tamil Nadu, Gujarat, Jharkhand, Madhya Pradesh and Goa. For this workshop, we invite **Dr. M. M. Betkar** as a resource person. Whereas, as a president of this webinar, our college principal, **Dr. Milind Hujare** sir gave his valuable time from his busy schedule.

Dr. M. M. Betkar is a principal of Shri Kumarswami Mahavidyalaya, Ausa, Dist. Latur. He provides all the necessary information about IPR in very easy and effective manner. In his presentation, he explains about the meaning of IPR, its importance's, its types with the simple examples. He also explains about patentable and non-patentable innovations. Also he informs us about how to file a patent. Thus by using more than 80 animated slides, Dr. Betkar delivered an effective and simple presentation which was enjoyed by our participant.

In the presidential speech Principal, Dr. Milind Hujare sir said that in the coming years the country will be known for its scientific creations in different fields ranging from agriculture to space research. At that time Protection for their intellectual property will be an encouragement to budding scientists to come out with more innovations and inventions, he said.

Welcome and Introduction of this webinar was addressed by Dr. Ajay Ambhore, Convener of Research and Innovation Committee. Whereas vote of thanks delivered by Dr. P. B. Teli. Dr. S. K. Shinde as a member committee played an important role for successful organization of this national webinar



Photo Gallery





Principal Dr. Milind Hujare Precedential Speech



Dr. M. M. Betkar Resource Person



Dr. Ajay Ambhore Organizing Secretory



Dr. S.K. Shinde Organizing Committee Member Dr. P.B. Teli Vote of Thanks



Participant attending the online session



Photo Gallery





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Convener Research and Innovation Committee

Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli),



"ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार"

- शिक्षणमहर्षी डॉ. बापूजी साळुंखे



Shri Swami Vivekanand Shikshan Sansths Kolhapur

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON. DIST – SANGLI

(Affiliated to Shivaji University, Kolhapur)

Research and Innovation Committee

Organize

Intellectual Property Awareness Quiz-2021

To celebrate



In association with Internal Quality Assurance Cell



Intellectual Property Awareness Quiz-2021

| > Event | Intellectual Property Awareness Auiz-2021 |
|-------------|---|
| > Date | 29st April 2021 |
| > Organizer | College Research and Innovation Committee |
| > Mode | Online through Google form |

PARTICPANTS

| Douticipont | Male | Female | Total |
|-------------|------|--------|-------|
| Participant | 56 | 60 | 116 |



World Intellectual Property Day 2021:

It is also known as **World IP Day.** Due to coronavirus pandemic, it is necessary to be safe therefore, WIPO is not organizing any physical events, and encourages the community of World IP Day to celebrate via virtual channels. The day is celebrated to make people know how intellectual property (IP) rights encourage innovation and creativity. This year World IP Day puts innovation and supports the efforts to create a green future. It is a need to care for our earth our home.

It was established by the World Intellectual Property Office (**WIPO**). It promotes the role of IP in stimulating innovation and creativity. In fact, World Intellectual Property Day provides an opportunity for IP offices, inventors and enterprises whether big or small to discuss and connect each other about the emerging various innovations that will help in shaping the world and also improves the living of people.

On the occasion of this, our college Research and Innovation Committee decided to celebrate world IPR day for the awareness about IPR in society. From that view, we designed a quiz regarding the information about IPR. Our principal Dr. Milind Hujare permits regarding the same and supports us. College IQAC coordinator Dr. Alka Inamdar madam suggest all the necessary directions for this celebration. Finally, we design the quiz, provide the link to the teachers and students. Near about 116 participants solve the quiz within two days. We thank all the participants for celebrating world IPR day with us.



A Forwarded

Quiz 2021 - On Occasion of World Intellectual Property Day

"ज्ञान, विज्ञान आणि सुसंसकार यासाठी शिक्षणप्रसार" - शि... docs.google.com

https://forms.gle/ArQ97C3pw1GUKHLh6

"ज्ञान, विज्ञान आणि सुसंसकार यासाठी शिक्षणप्रसार" - शिक्षणमहर्षी डॉ. बापूजी साळुंखे Shri Swami Vivekanand Shikshan Santha's, Kolhapur Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon Dist. Sangli All respected dignitaries, Colleagues, Friends and my dear students, to create awareness about intellectual property rights in society, College Research and Innovation Committee in association with college IQAC, organize a Quiz-2021 on IPR to celebrate the World Intellectual Property Day.

Kindly fill the google form and answer the questions. you will receive certificate in your email after successfully submission of this form.

Thanking You....

(Only 100 certificates are distributer per day) 10:34 am 🗸

Quiz Result

| 1 Timestamp | Email | Score | Name | Name of Institution | Designation | City | State |
|-------------|---|-------|----------------------------------|-----------------------------|-------------|----------------|-------------|
| 2 | 4/30/2021 10:20:35 ambhoreajay@gmail.co | om | 38 / 40 Dr. Ajay N. Ambhore | PDVP, College Tasgaon (| Faculty | Miraj | Maharashtra |
| 3 | 4/30/2021 11:15:43 dralkapatil1@gmail.com | n | 34 / 40 Dr. Alka Inamdr | PDVP College Tasgaon | Faculty | Tasgaon | Maharashtra |
| 4 | 4/30/2021 11:32:15 ppriya.patil@rediffmail. | COL | 30 / 40 Dr. Priya Digambar Patil | Vivekanand College, Kolh | Faculty | Kolhapur | Maharashtra |
| 5 | 4/30/2021 11:32:40 bharatbhogale702@gm | ail. | 22 / 40 Bharat chandrakant Bhog | New English school & jr. | Other | Pandharpur | Maharashtra |
| 6 | 4/30/2021 11:34:46 mupatil30@gmail.com | | 30 / 40 Dr Megha Uday Patil | Padmabhushan Dr. Vasa | Faculty | Tasgaon | Maharashtra |
| 7 | 4/30/2021 11:34:46 mupatil30@gmail.com | | 30 / 40 Dr Megha Uday Patil | Padmabhushan Dr. Vasa | Faculty | Tasgaon | Maharashtra |
| 8 | 4/30/2021 11:38:32 bjkadam1132@gmail.c | orr | 26 / 40 Dr.Bandu Jayshing Kadar | r P D V P College Tasgaon | Faculty | Kolhapur | Maharashtra |
| 9 | 4/30/2021 11:40:52 rp3192898@gmail.com | | 8 / 40 patil Rutuja Shivaji | pdvp collage Tasgaon | Student | Tasgaon | Maharashtra |
| 10 | 4/30/2021 11:44:21 arjunwagh2011@gmail. | .co | 34 / 40 Dr | Dr.Arjun Shivaji Wagh | Faculty | Satara | Maharashtra |
| 11 | 4/30/2021 11:46:34 prakum2001@yahoo.co | o.ir | 12 / 40 Dr.B.S.Ravikumar | AVK College for women,H | Faculty | Hassan | Kamataka |
| 12 | 4/30/2021 11:48:05 ies.nes.shobhana@gm | ail. | 40 / 40 Shobhana Nandu Pawar | IES New English School I | Faculty | Mumbai | Maharashtra |
| 13 | 4/30/2021 11:49:08 arjunwagh2011@gmail. | CO | 36 / 40 Dr. Arjun Shivaji Wagh | PDVP Mahavidyalaya Tas | Faculty | Satara | Maharashtra |
| 14 | 4/30/2021 11:56:31 rajeshroman@gmail.co | m | 20 / 40 Rajesh Wamanrao Roma | r P D V P college , Tasgao | Faculty | Tasgaon | Maharashtra |
| 15 | 4/30/2021 11:59:35 jj3174491@gmail.com | | 38 / 40 Jadhav Jyoti Ajinkya | P.D.V.P. college,Tasgao | Student | Tasgao | Maharashtra |
| 16 | 4/30/2021 12:02:20 prabhakarpatilmath@ya | ahc | 28 / 40 Prabhakar Vinayak Patil | Padmabhushan Dr Vasan | Faculty | Tasgaon | Maharashtra |
| 17 | 4/30/2021 12:03:17 ruksanamujawar0307@ |)gn | 28 / 40 Mujawar Ruksana Gousp | Shivaji university kolhapur | Student | Kythe Mahankal | Maharashtra |
| 18 | 4/30/2021 12:04:27 archanarajmane1396@ | ign | 8 / 40 Archana sanjay rajmane | Pdvp tasgaon | Faculty | Sangli | Maharashtra |
| 19 | 4/30/2021 12:09:44 hvp27399@gmail.com | | 12 / 40 Himali Patil | BVDU MEDICAL COLLEC | Student | Islampur | Maharashtra |
| 20 | 4/30/2021 12:11:46 vp28643@gmail.com | | 40 / 40 Vijay Patil | PDVP college tasgoan | Faculty | Islampur | Maharashtra |
| 21 | 4/30/2021 12:16:00 mvp9924@gmail.com | | 40 / 40 Dr.Megha Vijav Patil | Malati Vasantdada Patil | KFaculty | Islampur | Maharashtra |
| 22 | 4/30/2021 12:35:25 ashwinmali6062@gma | il.c | 22 / 40 Mali Ashwini Ramchand | rap.d.v.p.college Tasgaon | Student | Tasgaon | maharashtra |
| 23 | 4/30/2021 12:45:58 pratibham7912@gamil | .00 | 20 / 40 Pratibha manik mane | P. D. V. P. College tasg | a Student | Tasgaon | Maharashtra |
| 24 | 4/30/2021 12:55:08 pratikshabhandare@gr | mai | 26 / 40 Dr.Pratiksha Bhandare | P.D.V.P. Mahavidyalaya | Faculty | Sangli | Maharashtra |
| 25 | 4/30/2021 13:20:31 manjeet.kukreja@yaho | 0.0 | 12 / 40 Dr Manjeet kour Arora | Kasturbagram Rural inst | it Other | Indore | MP |
| 26 | 4/30/2021 13:22:17 manohar2210@gmail.c | noc | 28 / 40 Dr Manohar V Lokhande | Sathaye College Mumba | ai Faculty | Mumbai | Maharashtra |
| 27 | 4/30/2021 13:24:29 swati kadam205@gma | ail.c | 28 / 40 SWATI ASHOK KADAN | Dr Ambedkar college of | la Other | Mumbai | Maharashtra |
| 28 | 4/30/2021 13:34:11 akarshprabhakar@gma | ail.c | 18 / 40 Akarsh Prabhakar Pallik | u Akarsh Prabhakar Pallik | u Student | Mumbai | Maharashtra |
| 29 | 4/30/2021 13:35:57 rahulupadhyay14581@ |)gm | 18 / 40 Rahul Upadhyay | Sathaye college | Student | Mumbai | Maharashtra |
| 30 | 4/30/2021 13:36:12 swati.kadam205@gma | ail.c | 32 / 40 SWATI ASHOK KADAN | Dr Ambedkar college of | la Other | Mumbai | Maharashtra |
| 31 | 4/30/2021 13:37:23 shreyasnirgude50@gm | nail. | 10 / 40 Nirgude Shreyas Digaml | baPDVP COLLEGE TASG | A Student | Tasgaon | Maharashtra |
| 32 | 4/30/2021 13:37:30 prakashakshay31@gm | nail. | 18 / 40 Jadhav prakash shrinivas | PDVP College Tasgaon | Student | Tasgaon | Maharashtra |
| 33 | 4/30/2021 13:38:11 shubhamrk7310@gma | il.c | 22 / 40 Rankhambe Shubham P | r:P.D.V.P. TASGAON | Student | Tasgaon | Maharashtra |
| 34 | 4/30/2021 13:38:30 priyagadade3592@gm | ail.r | 24 / 40 Gadade Priyanka Namd | evPDVP college Tasgaon | Student | Tasgaon | Maharashtra |
| 35 | 4/30/2021 13:38:31 amol.avadan@gmail.co | om | 6 / 40 AVADAN AMOL RAMCI | H PDVP COLLEGE TASG | A Student | Tasgaon | Maharashtra |
| 36 | 4/30/2021 13:39:31 landagesuraj7099@gm | nail. | 30 / 40 Landage Suraj Vitthal | P. D. V. P COLLEGE, T | A Student | Tasgaon | Maharashtra |
| 37 | 4/30/2021 13:41:11 advabjain@gmail.com | | 38 / 40 Adv A B Jain | Ashok Balchand Jain | Student | Mumbai | Maharashtra |
| 38 | 4/30/2021 13:53:33 subhashsingh7452@g | mai | 8 / 40 Subhash Singh | Kamkus College of law | Student | New Delhi | Maharashtra |
| 39 | 4/30/2021 14:00:25 shahajijpatil70@gmail. | COF | 24 / 40 Dr shahaji jaganntha pat | il Padmabhushan doctor v | a: Faculty | Tàsgaon | Maharashtra |
| 1000 | | | | | | | |

| 41 | 4/30/2021 14:08:43 dipali982000@gmail.com | 36 / 40 Patil dipali Ramchandra | Shivaji University Kolhapu | Student | Tasgaon | Maharashtra |
|----|--|-----------------------------------|--|-----------|-----------------|-------------|
| 42 | 4/30/2021 14:13:15 vishantlokhandemv@gmai | 24 / 40 Vishant Lokhande | Sathaye college | Student | Mumbai | Maharashtra |
| 43 | 4/30/2021 14:13:50 lokhandemayuri44@gmail | 40 / 40 Mayuri Lokhande | Atharva college of enginee | Student | Mumbai | Maharashtra |
| 44 | 4/30/2021 14:32:54 supriyakhatal99@gmail.ci | 36 / 40 Supriya bapuso khatal | Shivaji university kolhapur | r Student | Kolhapur | Maharashtra |
| 45 | 4/30/2021 14:32:57 anekarsmita@gmail.com | 36 / 40 Dr. Anekar Smita Dilip | S.G.M.College, Karad | Faculty | Karad | Maharashtra |
| 46 | 4/30/2021 14:36:39 maneankita782@gmail.cc | 26 / 40 Mane Ankita adhikrao | Pdvp college Tasgoan | Student | Visapur Tasgoan | Maharashtra |
| 47 | 4/30/2021 14:37:46 ankitamahajan0105@gma | 38 / 40 Mahajan Ankita Sanjay | Shivaji University Kolhapu | Student | Kolhapur | Maharashtra |
| 48 | 4/30/2021 14:40:20 2015 milindpatil@gmail.cr | 22 / 40 Mr. Milind Ganapati Patil | . Padmabhushan Dr. Vasi | Other | Tasgaon. | Maharashtra |
| 49 | 4/30/2021 15:04:28 drmahadiksc@rediffmail.c | 12 / 40 Dr. Shama Mahadik | R. P. College, Osmanaba | Faculty | Osmanabad | Maharashtra |
| 50 | 4/30/2021 15:32:39 tushars.pcp@gmai.com | 16 / 40 Tushar shendage | P.D.Vp | Student | Tasgaon | Maharashtra |
| 51 | 4/30/2021 15:54:28 sujayvasekar100@gmail.c | 30 / 40 Vasekar Sujay Balasahel | D.Y.PATIL ACS , PINPRI | Student | Pune | Maharashtra |
| 52 | 4/30/2021 16:09:18 mygaikwad76@gmail.com | 10 / 40 MILIND VITHALRAO GAI | Dr D Y Patil ACS College | Student | Pune | Maharastra |
| 53 | 4/30/2021 16:24:12 bhamaremilind39@gmail. | 22 / 40 Milind Ravsaheb bhanare | Dr D. Y. Patil ACS colleg | Student | Pune | Maharastra |
| 54 | 4/30/2021 16:28:54 poojaumrani974@gmail.ci | 12 / 40 Umrani Pooja Pradhan | Pdvp clg tasgaon | Student | Tasgaon | Maharashtra |
| 55 | 4/30/2021 16:32:47 sonujamadar276@gmail.c | 20 / 40 Shukrana vhanwad | Pdvp | Student | Tasgaon | Maharashtra |
| 56 | 4/30/2021 16:39:17 unicornsweet2000@gmail | 6 / 40 Manali Rambhau Puyad | Dr. D. Y. Patil Arts, Comr | r Student | Pune | Maharashtra |
| 57 | 4/30/2021 16:54:50 sppanchal2020@gmail.co | 14 / 40 Shubham Pandit Panchal | Dr. D. Y. Patil ACS Colleg | Student | Pune | Maharashtra |
| 58 | 4/30/2021 17:14:38 kajalshinde1599@gmail.c | 8 / 40 Shinde Kajal Dadaso | Pdvp college Tasgaon | Student | Tasgaon | Maharashtra |
| 59 | 4/30/2021 17:39:42 pchavan7194@gmail.com | 16 / 40 Chavan Prathamesh pano | Padmabhushan Dr. Vasar | Student | Tasgaon | Maharashtra |
| 60 | 4/30/2021 18:14:33 sujatapatil22732273@gm | 26 / 40 Patil sujata dilip | P.d.v.p college tasgaon | Student | Tasgaon | Maharashtra |
| 61 | 4/30/2021 18:28:17 arjunwagh2011@gmail.co | 22 / 40 Dr.Arjun Shivaji Wagh | PDVP Mahavidyalaya Ta | i Student | Tasgaon | Maharashtra |
| 62 | 4/30/2021 18:46:42 ypebooks@gmail.com | 28 / 40 Yogesh Pradip Patil | Dr D Y Patil ACS College | Student | Pune | Maharastra |
| 63 | 4/30/2021 18:53:51 vaibhavmajre62@gmail.co | 32 / 40 Vaibhav prakash majre | Dr dy patil acs college pir | r Student | Pune | Maharastra |
| 64 | 4/30/2021 18:55:49 gadekarbhimashankar66@ | 12 / 40 Gadekar Bhimashankar T | Dr.D Y Patil college pimp | Student | Pune | Maharastra |
| 65 | 4/30/2021 18:59:40 pchavan7194@gmail.com | 24 / 40 Chavan Prathamesh pano | l Padmabhushan Dr vasant | t Student | Tasgaon | Maharastra |
| 66 | 4/30/2021 19:03:13 ankitaapatil99@gmail.con | 16 / 40 Ankita Anil Patil | D. Y. Patil ACS College, | Student | Pune | Maharastra |
| 67 | 4/30/2021 19:09:19 kk66946563@gmail.com | 32 / 40 Khilari kiran Dhondiram | PDVP college tasgaon | Student | Tasgaon | Maharastra |
| 68 | 4/30/2021 19:14:55 pranitj00@gmail.com | 14 / 40 Jadhav Pranit shahaji | Pdvp College tasgaon | Student | Tasgaon | Maharastra |
| 69 | 4/30/2021 19:17:13 komalpatil6168@gmail.co | 18 / 40 Patil komal Shashikant | Pdvp college Tasgaon | Student | Tasgaon | Maharastra |
| 70 | 4/30/2021 19:20:42 kamble7131@gmail.com | 26 / 40 Sandip Vijay Kamble | Gramin science vocationa | a Student | Nanded | Maharastra |
| 71 | 4/30/2021 19:24:36 harshada25112@gmail.cc | 20 / 40 Jadhav Harshada Mahade | a PDVP college , Tasgaon | Student | Tasgaon | Maharastra |
| 72 | 4/30/2021 19:27:48 skgavadenogra@gmail.co | 22 / 40 Dr. Sandip Kisan Gavade | Dattajirao Kadam Arts, S | Faculty | lcahlkaranji | Maharastra |
| 73 | 4/30/2021 19:31:21 shafqat02@gmail.com | 34 / 40 Dr SHAFQAT ALAUDDIN | SHIBLI NATIONAL COLLI | EFaculty | Tasgaon | Maharastra |
| 74 | 4/30/2021 19:35:30 snioasis@yahoo.com | 18 / 40 Prof. Shabbir Nurmahmm | : Miraj Mahavidyalaya Mira | Faculty | Tasgaon | Maharastra |
| 75 | 4/30/2021 19:46:12 pp272689@gmail.com | 20 / 40 Patil Pranali Ankush | Pdvp college, Tasgaon | Student | Tasgaon | Maharastra |
| 76 | 4/30/2021 19:37:14 ashkatkar2599@gmail.co | 26 / 40 Katkar Ashwini Vishwasr | PDVP COLLEGE TASGA | Student | Tasgaon | Maharastra |
| 77 | 4/30/2021 19:37:31 koreaishwarya000@gmail | 38 / 40 Kore Aishwarya Bhagvan | P.D.V.P.C. Tasgaon | Student | Tasgaon | Maharastra |
| 78 | 4/30/2021 19:37:56 vishalind1001@gmail.com | 20 / 40 Patil Vishal Ankush | Padmabhushan Dr. Vasa | Student | Tasgaon | Maharastra |
| | | | and the second sec | | - Summer | |
| 79 | 4/30/2021 19:38:19 dnyaneshvarihingmire@gr | 24 / 40 Dnyaneshvari Jitendra Hir | 1 Padmabhushan Dr vasant | t Student | Tasgaon | Maharastra |

| 81 | 4/30/2021 19:50:19 sachinshinde888@gmail.(| 26 / 40 Dr. Sachinkumar Kisan S PDVP College Tas | sgaon Faculty | Tasgaon | Maharastra |
|-----|--|---|--------------------|----------|------------------|
| 82 | 4/30/2021 19:51:14 babarsarika522@gmail.cc | 18 / 40 Sarika Ganpati Babar P.D.V.P.COLLAG | E Student | Tasgaon | Maharastra |
| 83 | 4/30/2021 19:51:30 mddhanu254@gmail.com | 28 / 40 Dhanshree Dattatray Mair Pdvp collage tasga | aon Student | Tasgaon | Maharastra |
| 84 | 4/30/2021 19:52:03 nikpawar594@gmail.com | 20 / 40 Pawar Nikhil Nandkumar PDVP Collage Tas | sgaon Student | Tasgaon | Maharastra |
| 85 | 4/30/2021 19:52:25 mohitepranali749@gmail (| 6 / 40 Mohite Pranali Adhikrao PDVP clg Tasgaor | n Student | Tasgaon | Maharastra |
| 86 | 4/30/2021 19:52:42 rajkanyajadhav324@gmai | 14 / 40 Rajkanya Mohan Jadhav PDVP College Tas | sgaon Student | Tasgaon | Maharastra |
| 87 | 4/30/2021 19:53:12 sumitshinde09961@gmail | 10 / 40 Sumit Ravasaheb Shinde PDVP college tas | gaon Student | Dahiwadi | Maharastra |
| 88 | 4/30/2021 19:53:35 thorwataniket69@gmail.ci | 18 / 40 Thorwat Aniket sanjay P.d.v.p collage tas | gaon Student | Vayfale | Maharastra |
| 89 | 4/30/2021 19:53:48 moreanjali219@gmail.con | 22 / 40 Anjali Ramesh More P.D.V.P tasgavon | Student | Sangli | Maharastra |
| 90 | 4/30/2021 19:54:15 manisha17kharade@gma | 10 / 40 Manisha sanjay kharade 🛛 pdvp college tasga | on Student | Miraj | Maharastra |
| 91 | 4/30/2021 19:54:29 omonkar18@gmail.com | 8 / 40 Mali onkar narayan P.d.vp college tas | goan Student | Tasgaon | Maharastra |
| 92 | 4/30/2021 19:55:02 nvasudha2018@gmail.cor | 16 / 40 Nalawade Vasudha Balaw Padmbhushan Dr. | Vasant Student | Tasgaon | Maharastra |
| 93 | 4/30/2021 19:55:22 khataljyoti3@gmail.com | 14 / 40 Jyoti kundlik khatal PDVP collage ta | asgaon Student | Sangli | Maharastra |
| 94 | 4/30/2021 19:55:45 nikpawar594@gmail.com | 20 / 40 Pawar Nikhil Nandkumar PDVP collage Tas | gaon Student | Tasgaon | Maharastra |
| 95 | 4/30/2021 19:54:52 shubhamvinayakpatil932@ | 26 / 40 Patil Shubham Vinayak PDVP college Tas | gon Student | Tasgaon | Maharastra |
| 96 | 4/30/2021 19:55:20 shwetavikaskamble@gma | 12 / 40 Shweta vikas kamble P.d.v.p college | Student | Tasgaon | Maharastra |
| 97 | 4/30/2021 19:55:50 komalsalunkhe764@gmai | 10 / 40 Komal Sunil Salunkhe Padmabhushan Dr | r. Vasar Student | Tasgaon | Maharastra |
| 98 | 4/30/2021 19:56:11 shahistamulani45@gmail. | 28 / 40 Shahista Mahebub Mulan P.D.V.P Collage a | ravade. Student | Tasgaon | Maharastra |
| 99 | 4/30/2021 19:56:42 rutwikpatil2122@gmail.co | 6 / 40 PATIL RUTWIK TANAJI P.D.V.P College T | asgaon Student | Tasgaom | Maharastra |
| 100 | 4/30/2021 19:57:20 mayurpatil250499@gmail. | 16 / 40 Mayur Ramesh Patil Dr. D. Y. Patil ACS | S Colle(Student | Pune | Maharastra |
| 101 | 4/30/2021 19:57:33 shubhampalkar2091998@ | 12 / 40 Shubham shashikant pal Dr. D. Y. Patil co | llege of a Student | Pune | Maharastra |
| 102 | 4/30/2021 19:58:27 avinashgurav8292@gmail. | 6 / 40 Gurav Avinash Bajrang Shivaji University | Kolhapu Student, | Kolhapur | Maharastra |
| 103 | 4/30/2021 20:03:47 koresaurabh27@gmail.co | 24 / 40 Saurabh Subhash kore Dr bapuji salunkh | ne mahav Student | Miraj | Maharastra |
| 104 | 4/30/2021 20:12:23 kajalmagdum0@gmail.coi | 14 / 40 Kajal chidanand maqdum Miraj Mahavidyala | aya miraj Student | Miraj | Maharastra |
| 105 | 4/30/2021 20:13:16 koresaurabh27@gmail.co | 36 / 40 Saurabh Subhash kore Dr bapuji salunkh | ne mahav Student | Miraj | Maharastra |
| 106 | 4/30/2021 20:21:02 sonalimaqdum13@gmail. | 28 / 40 Sonali Anil Maqdum Miraj Mahvidavala | a Miraj Student | Miraj | Maharastra |
| 107 | 4/30/2021 20:26:40 paroii143@gmail.com | 40 / 40 Paroji Kumar Basapoa Mirai mahavidvala | ava.Mirai Student | Mirai | Maharastra |
| 108 | 4/30/2021 20:31:42 paroii143@gmail.com | 36 / 40 Paroji kumar Basappa Miraj mahavidvala | ava .mira Student | Miraj | Maharastra |
| 109 | 4/30/2021 20:37:40 wkamble70@omail.com | 30 / 40 Dr. Vilas Vikram Kamble Dahiwadi Collece | Dahiwa(Faculty | Dahiwadi | Maharastra |
| 110 | 4/30/2021 20:45:35 diwaakshav2411@omail. | 4 / 40 Diwa Akshav Patil Mirai mahavidvala | ava mirai Student | Mirai | Maharastra |
| 111 | 4/30/2021 20:48:32 firoigeology@amail.com | 30 / 40 Dr. Firoj Yasin Shaikh Miraj Mahavidvala | aya Miraj Faculty | Miraj | Maharastra |
| 112 | 4/30/2021 21:26:15 nikitamaqdum18@qmail.c | 20 / 40 NIKITA SAMBHAJI MAGEMIRAJ MAHAVID | HAYAL' Student | Miraj | Maharastra |
| 113 | 4/30/2021 21:26:37 prakashm461998@qmail. | 24 / 40 Mali Prakash Ashok Yashvant shikash | han savst Student | Sangli | Maharastra |
| 114 | 5/1/2021 10:26:50 shankarmane.dt@gmail.c | 34 / 40 Shankar Bhagwan Mane P. D. V. P. Collei | ge, Tasg Faculty | Tasgaon | Maharastra |
| 115 | 5/1/2021 14:39:24 jafsana@gmail.com | 34 / 40 Prof. Mrs. Afsana Shabbir Willingdon Colleg | e Sangli Faculty | Sangli | Maharastra |
| 116 | 5/1/2021 16:45:03 2015. milindpatil@gmail.cc | 20 / 40 Mr. Milind Ganapati Patil Padmabhushan D | Dr. Vasal Other | Tasgaon | Maharastra |
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Quiz Certificate





Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).









"Dissemination of Education through Knowledge, Science and Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha Kolhapur's

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON, DIST- SANGLI 416 312 (Maharashtra) Phone No: (02346-250665)

(Affiliated to Shivaji University, Kolhapur)

Report on

33 KOTI TREE PLANTATION PROGRAMME

Organized By









8th JULY 2019

| Event: | 33-KOTI TREE PLANTATION PROGRAMME -2019 |
|-----------------------|--|
| Organizing Department | National Service Scheme (N.S.S.) |
| Date | 8 th JULY 2019 |
| Venue | College Campus |
| Total Participants | 304 |
| Male | 163 |
| Female | 141 |

NOTICE

'जान, विज्ञान जाति मुसेन्वार पांसाडी जिल्लाप्रसार -जिल्लमहर्षी थी.पापुजी सालुये भी स्वामी विवेगानंद शिक्षण संस्था, कोल्हापूर संचलित पद्मभूषण डॉ.वसंतरावदादा पाटील महाविद्यालय तानगाव, जि- सांगली राष्ट्रीय सेवा योजना २०१९-२०२०

३३ कोटी वृक्ष लागवड अभियान

• स्चना

fa.4/19/2022

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महाविद्यालयातील सिनिअर विभागातील प्राध्यापक व प्रशासकीय कर्मचारी यांना 🦷 स्चित करण्यात येते की,सोमवार दि.८/७/२०१९ रोजी आपल्या महाविद्यालयाच्या परिसरात सकाळी १०वा.विभागीय सहसंचालक,उच्च शिक्षण,यांच्या आदेशानुसार राष्ट्रीय सेवा योजनेच्यावतीने ३३ कोटी वृक्षलागवड अभियान अंतर्गत वृक्षारोपणाचा उपक्रम आयोजित केला आहे.

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a Dr. P.B. Teli- T.
"झन, विहाल जणि गुमेरबार गोगठी निजणप्रणार" - निजणपर्यां तो सपुत्री माळुवे वी स्वामी विवेकानंद क्षित्रण संस्था, कोल्हापूर संचलित पद्मभूषण डॉ.वसंतरावदादा पाटील महाविद्यालय तागगाव, जि- गांगली

राष्ट्रीय सेवा योजना २०१९-२०२०

३३ कोटी वृक्ष लागवड अभियान

सूचना

R.4/19/2029

महाविद्यालयातील सिनिअर विभागातील प्राध्यापक व प्रशासकीय कर्मचारी यांना सूचित करण्यात येते की,सोमवार दि.८/७/२०१९ रोजी आपल्या महाविद्यालयाच्या परिसरात सकाळी १०वा.विभागीय सहसंचालक,उच्च शिक्षण,यांच्या आदेशानुसार राष्ट्रीय सेवा योजनेच्यावतीने ३३ कोटी वृक्षलागवड अभियान अंतर्गत वृक्षारोपणाचा उपक्रम आयोजित केला आहे.

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Hon. Prin. (Dr.) Milind Hujare With Faculties & N.S.S. Students Are Involved

In The Tree Plantation Programme



Tree Plantation By Hon. Principal (Dr.) Milind S. Hujare



Hon. Principal (Dr.) Milind S. Hujare With College Staff



Hon. Principal (Dr.) Milind S. Hujare



N.S.S. Programme Officer Dr. Amol Sonwale with Principal & College staff



N.S.S. Programme Officer Dr. T. K. Badame with Principal & College staff



N.S.S. Programme Officer Dr. P. B. Teli with N. S. S. Students & College staff



Plantation BY Dr. Maya Patil, Dr. S. D. Jadhav, Dr. Megha Patil & Dr. Alka Inamadr



Dr. Alka Patil With N.S.S. Students & Programme Officer



Vijay Jadhav HOD-Political Department



A.S. Pachore (HOD-English Dept.)



Prof. (Dr.) N. A. Kulkarni HOD-Department of Botany



Dr. S. A. Khabade HOD-Department of Zoology



Tree Plantation by College Teaching staff with N. S. S. Students

On the occasion of **33-Koti Tree Plantation Programme** Dr. T. K. Badame narrated the tree plantation Programme in detail and Hon. Principal (Dr.) Milind Hujare sir highlighted the importance of tree plantation, economic importance of tree, conservation of biodiversity etc.

Tree plantation is one of the best activities for making the Campus Greener, Livelier and Healthier. Planted trees help our biodiversity, ensure the supply of Oxygen for the next generations and provide us with various resources. Without trees, the existence of human life as well as other species on earth is impossible. So we should plant more and more trees.

Our Motto is "College Campus Goes Green". On the occasion of 33 – Koti Tree Plantation Programme, about 50 plants are planted in the college campus by Hon. Principal (Dr.) Milind Hujare sir, teaching and non teaching staff. Also N.S.S. students are actively involved in the plantation of tree in college campus. The 40 plants includes different varieties such as Tamarind (Chinch), Azadiracta indica (Neem), Ficus (banyan tree), Gulmohar, Jamun, Wild Cherry plant, Ashoka tree, Ramphal, Peepal tree and Arjun trees are planted in the college campus area. Today our college goes to green campus. Our college campus consists of varies of plants includes flowering and non flowering plants, herbs, shrubs and trees etc.

About more than 1000 plants are currently present in the college campus. Most of these plants grow under less water content. Every year our college engage plantation of varieties of plants.

Today's percentage of forest area is reduced due to urbanization, deforestation, highway development, Dam construction etc. Due to this above cause plantation is

required. Trees greatly contribute to their environment by providing oxygen, supporting wildlife, improving air quality, conserving water, preserving soil and climate amelioration.

This programme successfully organized by N. S. S. Programme Officer **Dr. T. K. Badame, Dr. Amol Sonawale and Dr. P. B. Teli**. For this programme college teaching, non teaching and N.S.S. students are present. Finally Anna Bagal expressed vote of thanks.

List of Participants in Tree Plantation Programme

'जान, विज्ञान आणि सुसंस्कार योगाठी थि -तिसंचमहर्षी तॉ.बापूजी सरसंधे भी स्वामी विवेकानंद शिक्षण संस्था, कोल्हापूर संचलित पद्मभूषण डॉ.वसंतरावदादा पाटील महाविद्यालय तामगाव, जि- मांगणी राष्ट्रीय सेवा योजना २०१९-२०२० ३३ कोटी वृक्ष लागवड अभियान उपस्थिती पत्रक सोमवार,दि.८/७/२०१९ मा.विभागीय सहसंचालक,उच्च शिक्षण,कोल्हापुर यांच्या आदेशानुसार महाविद्यालय परिसरात राष्ट्रीय सेवा योजनेच्या वतीने सोमवार,दि.८/७/२०१९सकाळी१० वा. घेण्यात आलेल्या३३कोटी वृक्षलागवड अभियान अंतर्गत वृक्षारोपणाच्या उपक्रमास खालील प्राध्यापक,प्रशासकीय कर्मचारी व विद्यार्थी उपस्थित होते.या उपक्रमास प्रमुख पाहणे मा.प्राचार्य डॉ.मिलिंद हजरे होते,तर अध्यक्षस्थानी उपप्राचार्य के.एस.पाटीलहोते. सदरउपक्रमाचे संयोजन एन.एस.एस.कार्यक्रम अधिकारी प्रा.डॉ.टी.के. बदामे. डॉ.पी.बी.तेली तसेच रा.से.यो. सदस्यांनी केले. अग्रजात नाव सही १. उरे मिलींद इन 2. TI SI (10 TI demanoit UTRANKE 3. पा. ज. व्ही. की स्वतंत्रत- प्राक्रमागर 8. ज. रवाँडे. (व्य. के यसो 5] पा. पार्टाल ए. के. - 41 82/14 g 6) Dr. A.S. Kumbha. 7) pr. Therbole D.B s) or work A.S

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"Dissemination of Education for Knowledge, Science, and Culture" -Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

DEPARTMENT OF ZOOLOGY

WORKSHOP

"Vermicomposting Bitotechnology"

2018-2019

| Name of the activity- | Report of "One day workshop on "Vermicomposting Bitotechnology" |
|------------------------|---|
| Date | 27 th / 12/2018 |
| Number of participants | 81 |
| VENUE | Room No. 6 |



जावक क. : पी.डी.प्ही.पी.एम.टी./1477 18-19

Reis: 26/12/18

To, Dr. S. S. Patil Department of Zoology, A. C. S. College, Palus, Dist.-Sangli.

Subject: Regarding Chief Guest

Respected Sir

Department of Zoology of our college has organized a one day workshop on "Vermicomposting Biotechnology" on Thursday, 27th December 2018.

We therefore request you to kindly accept our invitation as "Chief Guest" and oblige.

Thanking you,

(Dr. R. R. Kumbhar) Principal, Padmabhushan Dr. Vatantradada Pat? Mahavidualem Tase net: (Sosefit)



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ତ୍ର ଚତ୍ର To,

Prof. (Dr.) S. S. Patil Krishna Mahavidyalaya, Rethre (B), Tal – Karad, Dist.-Satara.

Subject: Regarding Resource person Respected Sir,

Department of Zoology of our college has organized a one day workshop on "Vermicomposting Biotechnology" on Thursday, 27th December 2018.

We therefore request you to kindly accept our invitation as "Resource Person" and oblige.

" Thanking you,

(Dr. R. R. Kumbhar) Principal, Padmebhushov Dr. Vasantraodada Patr Mahavidvalaya Tasgron: (Sangli)

日前日: 2617/2018



"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार" - विक्षणमहर्षी वॉ. बापूनी साकुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhaput's

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA

TASGAON, Dist. Sangli, Pin- 416 312 @ - STD : 02346-250665, 250575 FAX : 250575



Affiliated to Shivaji University, Kolhapur

E-mail : san.pdvpm.tas@gmail.com Website : www.pdvpmtasgaon.edu.in

NAAC Resconditted "B" (276) *Established Year: June 1952 *P. B. No. : 14 * Jr. College No. : J22-10-001 *Sr. College Code No. : SPACH Jr.: C-8

| Shikshanmaharshi | Hon, Chandrakant (Dada) Patil | Prin, Abhaykumar Salunkhe | Prin. Mrs. Shubhangi Gawade | Dr. R. R. Kumbhar |
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| Dr. Bapuji Salunkho | PRESIDENT BLCm. Measure of Revenue Public Works | CHAIRMAN | SECRETARY | PRINCIPAL |
| FOUNDER | Govt. of Mahanashtra | | | |

Ref.No. : PDVPMT /

A Students Initiative, Skill Development Programme Lead College Activity

One Day Workshop for Students and Parents On

VERMICOMPOSTING BIOTECHNOLOGY

27th December, 2018

Organized by

DEPARTMENT OF ZOOLOGY

P.D.V.P. Mahavidyalaya, Tasgaon, Dist-Sangli Phone No. 02346-250665

E-mail: san.pdvpm.tas@gmail.com

Objectives of the workshop:

Today's India is focusing mainly on skill development. Main objectives of the workshop are:

- 1) Study of different species of earthworms
- 2) Study of earthworm biology
- 3) Small scale vermiculture technique
- 4) Large scale commercial verniculture farming
- 5) Applications of vermin composting/vermiculture
- 6) Economic importance of earthworms and vermicomposting technology

Eligible Participants:

Undergraduate Postgraduate Students, Researchers and Layman Parents.

Poster & Model Competition for Students:

Posters and models should be related to the theme. Posters and models should not exceed 3ft =2.5ft size.

Presentation time: 5 min.

* Address for Correspondence:

Sursandhya09@rediffmail.com rmganeshwade@gmail.com drpbteli15@gmail.com Contact No. 9822596895, 9766924683, 9822866577

Co-ordinator RANNADE

(Dr.R.M. Ganeshwade)

Shitula Convener

(Dr. S.A. Khabade)

(Dr.R.R. Kumbhar) Principal Padmabhushan (k. Vacantroodada Patil Mahandyslaya, Tasgaon, (Sangk) (0.5.)

"Dissemination of Education through Knowledge, Science and Culture" Shikshanmaharshi Dr. Bapaji Salankhe

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Shri Swami VivekanandShikshanSanstha's, Kolhapur

Padmbhushan Dr. Vasantraodada Patil Mahavidyala, Tasgaon, Dist- Sangli. Department of Zoology

Date : 24/12/2018

Notice

All B.Sc. B group students hereby informed that we are going to organize " One day workshop on "Vermicomposting Biotechnology" Department of zoology in 27th December 2018 .It is compulsory to all students to participate in this activity.

Head of Department

HEAD DEPARTMENT OF ZOOLOGY, PADMAEHIJSHAN DR. VASANTHAD DADA (ATTA MARAVIDYS) AVA TASGAON DIST, SANDU

"One Day Workshop On Vermicomposting Biotechnology"

Department of Zoology,

Padmbhushan Dr. Vasantraodada Mahavidyalaya, Tasgaon, Sangli.

Programme Schedule

Day & Date : Thursday, 27th December 2018

Registration

: 10.00 - 11.00 am,

Inaugural Function and Key Note Address

: 11.00 - 12.30 pm

CHIEF GUEST

Dr. S. S. Patil

A. C. S. College, Palus

PRESIDENT

Dr. R. R. Kumbhar

Principal P.D.V.P. Mahavidyalaya, Tasgaon.

First Session (12.30-1.30pm)

Prof.(Dr.) S. S. Patil Department of Zoology, Krishna Mahavidyalays, Rethre, Tal – Karad (Satara)

Topic : Biotechnology based new Vermiwash model

c Seperandeserve establistical establistic LUNCH BREAK (1.30 - 2.30PM)

Second Session (2.30-3.30pm)

Prof.(Dr.) S. S. Patil

Department of Zoology.

Krishna Mahavidyalaya, Rethre,

Tal - Karad (Satara)

Topic : Biotechnology based new Vermicomposting Model

Campus visit/Poster session: 3.30 - 4.30pm

VALEDICTORY FUNCTION

4.30-5.00pm

Chief Guest: Prof. (Dr.) N. A. Kulkarni

Department of Botany

P. D. V. P. Mahavidyalaya, Tasgaon

President: Dr. V. Y. Pawar

Department of Statistics

P. D. V. P. Mahavidyalaya, Tasgaon

Contact Numbers:

Dr. S. A. Khabade (HOD) - 9822596895 Dr. R. M. Ganeshwade - 9766924683 Dr. P. B. Tell - 9822866577 Our Country faces soil and water pollution due to agricultural inorganic fertilizers, Fungiside and pesticides. Indiscriminate use of these chemicals causes many effects on living organism. Keeping in view above fact scientist manufactured so any organic fertilizers, fungisides and pesticides which are harmful and non-polluted.

Keeping in view above fact one day workshop on "Vermicomposting Biotechnology" was organized by Department of Zoology, P.D.V.P Mahavidyalaya, Tasgaon.

One day Workshop on "Vermicomposting Biotechnology" was held on 27.12.2018. The 52 students of B.Sc. III Zoology and Botany subject were present in this workshop. The 12 students and staff from Balwant College, Vita were also present in this workshop. There are about 05 non teaching staff was present in the workshop. Thus there was 70 registrations for the workshop.

For this workshop Dr.R.R Kumbhar (Principal) of our college was a president Dr.S.S. Patil (Head of Zoology Department), A.C.S. College Palus was chief guest and Prof S. S. Patil Head of Zoology Department Krishna Mahavidyalaya Rethare Budruk was a resource person. He delivered two lectures namely-1. Biotechnology based new vermiwash model 2.Biotechnology Based new Vermicomposting model. During afternoon session "Poster Presentation Session was completed and 3 number are drawn. During afternoon session Dr N. A. kulakarni Prof and Head of Botany Department P.D.V.P Mahavidyalaya Tasgaon. Dr. Suryawanshi V.D. Prof and Head, Chemistry Department P.D.V.P Mahavidyalaya Tasgaon, were worked heartly for the workshop completion by Dr Teli P.B., Department of Zoology of our college.

Outcome of the Workshop

Due to This workshop new model of vermiwash and Vermicompost were known to the participants and students. These models were very fruitful for vermiwash and Vermicompost production and easily made by anybody, it was also new to the participants. Making these models will be a new business which gives more production of vermiwash and Vermicompost.



One Day workshop- vermicompositing Biotechnology- Chief Guest Dr.S.S. Patil



One Day workshop- vermicompositing Biotechnology- Participents Teachers and Students.

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"Dissemination of Education through Knowledge, Science and Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha Kolhapur's

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON, DIST- SANGLI 416 312 (Maharashtra) Phone No: (02346 - 250665)

(Affiliated to Shivaji University, Kolhapur)

Report On

"HANDS ON TRAINING ON APICULTURE"

Organized By



Internal Quality Assurance Cell



27th October 2021



NOTICE



| Event: | "Hands On Training On Apiculture" |
|-----------------------|--|
| Organizing Department | Department of Zoology & IQAC |
| Date | 27 th October 2021 |
| Venue | College Auditorium |
| Total Participants | 99 (Teaching Staff & Students) |
| Male | 56 |
| Female | 43 |



All Dignitaries & Participants are Welcomed By Dr. Shahaji Patil (Staff Secretary)



Apiculture Trainer Mr. Dayawan Patil Introduced By Dr. P. B. Teli







Mr. Dayawan Patil Falicitated By Prin. Dr. Milind Hujare





Hon. Prin. (Dr.) Milind Hujare Falicitated By Prof. S. A. Khabade

All Participants (Faculty & Students)



Mr. Dayawan Patil Delivered Speech on Apiculture & Hands on Training



Presidential Speech On Apiculture By Hon. Principal (Dr.) Milind Hujare





Indoor Demonstration to Faculties & Students By Dayawan Patil



Votes of Thanks Expressed By Prof. (Dr.) S. A. Khabade



Mr.Dayawan Patil Giving Information On Bee Hive







Hands On Training On Apiculture In Field By Dayawan Patil With Prin. (Dr.) Milind Hujare





Honey Comb With Prin. (Dr.) Milind Hujare & Dayawan Patil



Honey Comb With Dr. P. B. Teli, Prin. (Dr.) Milind Hujare, Vice Prin. Dr. S. A. Khade, Anna Bagal & Dr. K. N. Patil

Department of Zoology, P. D. V. P. Mahavidyalaya, Tasgaon and IQAC organised **"Hands On Training On Apiculture"**. Dr. Shahaji Patil welcomed all the Dignitaries, traching Staff, Farmers & Students. The Hands On Training Trainer Mr. Dayawan Patil (Madhu-Amrut Honey Bee Conservation & Research Centre Kaneri, Tal Karveer, Dist Kolhapur) introduced by Training Coordinator Dr. P. B. Teli. Mr. Dayawan Patil felicitated by Prin. (Dr.) Milind S. Hujare, Hon. Prin. (Dr.) Milind Hujare falicitated By Prof. (Dr.) S. A. Khabade (Head, Department of Zoology).

On the occassion of Hands on training on apiculture Mr. Dayawan Patil said that Honey Bees are God Gift to Nature & Farmers. Honey bees are most important insects in the nature, if they reduce their number, no life on earth surface because they are involved in the transfer of pollen grains from one pant to other, it helps for formation fruits & seed or grains. They are required for human being daily. He also explained the economic importance of Honey bees, their types, Uses honey, wax etc. as well as structure of Bee Hive apparatus. Each Bee Hive consists of 15000 to 25000 bees (bees includes Female Queen, Male Drones, worker bees) it contains brood chamber, honey chamber etc. In India, Apiculture Idustries **Apis cerana indica** bee is used for production of Honey & wax. Apis cerana is less agressive and produce large amount of honey, it also acclimatise in natural contition of India. In India total 11 to 15000 tons honey will be obtained by Apiculture Industry per year. But requirement is more than 15000 ton of honey. Apiculture is allied businees, it gives more money to farmers along with agriculture.

On Presidential speech, Prin. Milind Hujare explained the detail information of pollination and their benefits. He also give assurance to farmers we are preparing framework of Apiculture, how to train to farmers and production honey.

Lastly vote of thanks expressed by Dr. S. A. Khabade (Professor & Head, Department of Zoology), Vice Prin. Dr. S. K. Khade (Science Wing), Vice Prin. J. A. Yadav, Prof. (Dr.) N. A. Kulkarni (Head, Botany Department), NAAC Coordinator Dr. Alka Inamdar, Staff Secretary Dr. Shahaji Patil, Dr. P. S. Bhandare, Miss. Punam Patil, Mr. V. M. Jadhav, Miss. S. P. Kusarkar, Miss. Chaitali Gavali & B. Sc Students are present. The programme was end on 2.00 pm.

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List of Participants

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| 21 | Patil A.R. | mate | Teacher | ADMIN |
| 22 | Mr. Samay V. Mali | Male | POW P. C. THEMAN | -fort |
| 23 | Mr. Valundkar F.B | mile | To college techne | Die |
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| 82 | Shogyashti Anil Ratil | Female | P. P. Y.P Tasgoon | Ohadil |
| 83 | Joshi Shreya Ganesh | Female | P.D.N.P. Tasquon | S.G. Joshi |
| 84 | Patil Rutuja DalaBo | female | PDN P Tasgan | R-D. Patt |
| 85 | Patil Rajani Ram | Female | P.D.V. P.Tasepon | Realit |
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| 100 | MARK MARKE | | | U |

News From Differents NEWS Paper

तरूण भारत मधमाशी निसर्गाला समृद्ध करते : पाटील

वसंतरावदादा पाटील महाविद्यालयात मधुमक्षिका पालन विषयावर कार्यशाळा

प्रतिनिधी तासनाथ

मधमाश्री नष्ट काली तर सुष्टी संप्रष्टात पेईल, मचमाजी वाचगणे ही कालानी गरज आहे. मधमाशी निसगीला समुख करते, जसे प्रतिपादन मधु जगुत हनी की कॉन्हार्वरान औड रिसर्थ सेंटरचे दयावान पाटील यांनी केले

वेगील पद्मभूषण इतिसलरावदादा पारील भहापिदालय येथे प्राणीभाषम व आधवयाण्सी विमागाच्या वतीने आयोजित बेलेल्या मध्यमंत्रिका थानम विषयावरील एक दिवसीय कार्यशालेल पार्टील बोलत होते. कार्यक्रमाच्या अण्यसंस्थानी महाहिदालयाचे प्राप्तार्थ ज्ञा. भिलिद ज़जरे होते.

पारीत पुढे म्हणाले, मचमाश्रीभाग पालनातून शेतीरी उत्पन्न पाडवणे शक्य आहे. मचमाशी मकरंड गीवता करताना धरागीभवन पश्चम ंग्रागले आपन्धाना निसर्ग बाबविण्याची चलवत लयार वरावी वागेश ज्ञेलक यांमध्ये



तासगाव : येथील यी ही थी, यहाविद्यालयात मध्यमंत्रिका पालन कार्यशावद्यसंगी प्रात्यक्षिक करताना थाटील, प्राचार्य हॉ, मिलिर हुजरे व इतर जिलक.

मयमाना पालनासंदर्भात आगवला निर्माण होऊ लागली आहे.

जंगले जमी झाल्यामुळे आण्या मयमाशा शतराकों संस्कृ लागल्या दाखाविले. आहेत, मधमाओं तिथ्या निवासापासून जयत जयत दोन चिलोमीटर पर्यंत हजरे यांनी मधमाशा परागीमवनाचे प्रधम करते तिला चुम्पीलभी असे महले जाते.

मधमाश्रीचे फायरे संसान 0.84 सर्वानी मचमाजीला यात्रविण्याच्या राजपतील सहभागी माने, असे आधाहन त्यांनी केले. लावादीयेटीमध्ये मयमाशांचे पालन हरते करायचे हे प्रात्यसिकासह अण्यसम्प्रानायसन् प्रा श्रीमितिद

वाम करों करतात हे समजून सांगितने. तासगाथं तालुक्यातील जेतकायांपर्यंत आपणती श्वटकड वेजन. STREEC असल्पाच सागितने. कार्यक्रमाचे प्रारमाविक

SETENDER. 南 12 तेनी पांनी केले तर आभार आणीआस्य विभागालम्ब आ. एस.ए. खायरे यांनी मानले. सूत्रसंचालन प्रा आण्णासांहेब बागल यांनी के में

कार्यक्रमाला मेंड समन्त्रपढ ही. असका धनामदार, उपप्राचार्य हो एसके साहे प्रावेग वाया सर्व विमानाचे विमान प्रमुख उपस्थित होते.

मधमाशी निसर्गाला समृद्ध करणारे माध्यम

दयावान पाटील : वसंतरावदादा महाविद्यालयामध्ये कार्यशाळा

a लोकमत न्यूज नेटवक तासगाव : मधमाशी नष्ट झाली तर ति संप्रदात येईल मधमाशी F 100 वाचविणे ही काळाची गरज आहे. मधमाशी निसगोला समृद्ध करते, असे iÈ. प्रतिपादन मध् अमृत हनी बी ाची कॉन्द्रावेशन औड रिसचं सेंटरचे होत दयावान पारील यांनी केले. केने

तासगाव येथील पद्मभूषण हो. गंतन वसंतरावदादा पारील महाविद्यालयात प्राणीशास्त्र व आयक्यएसी विभागाच्या वतीने आयोजित केलेल्या मध्मक्षिका पालन या विषयावरील एकदिवसीय कार्यशाळेत ते बोलत होते. हजरे अध्यक्षस्थानी होते.

दयावान पार्टील म्हणाले की, मधमाशीच्या पालनातून शेतीचे उत्पन्न वादविणे शक्य आहे मधमाश्याचे सर्वानी फायदे लक्षात घेऊन

मधमाशीला वाचविषयाच्या चळवळीत सहभागी वहावे.

समन्वयक डॉ. पी. बी. तेली यांनी प्रास्ताविक केले. प्रा. आण्णासाहेब महाविद्यालयाचे प्राचार्य डॉ. मिलिंद बागल यांनी सुत्रसंचालन केले. प्राणीशास्त्र विभागप्रमुख प्रा. एस. ए. खाबडे यांनी आभार मानले. यावेळी डॉ. अलका इनामदार, उपप्राचार्य डॉ. एस. के, खाहे, प्रा. जे. ए. यादव, आवी उपस्थित होते.

मधमाशी निसर्गाला समृद्ध करते : दयावान पाटील वसंतरावदादा पाटील महाविद्यालयात मधुमक्षिका पालन या विषयावर एक दिवसीय कार्यशाळा

प्रतिध्वनी : वृत्तसेवा

🗋 तासगाव : मधमाशी मट झाली तर राष्ट्री संपुष्टात येईल मध्याशी बाचवणे ही काळाची गरज आहे . मधमाशी निसर्गाला समुद्ध करते असे उद्रार मधू अमृत हुनी बी कॉण्डावेशन और रिसर्च सेंटरचे शी.दयावान पारीन यांनी 44440 पार्टील डॉ.यसंतरायदादा महाविद्यालय वासगाव येथे प्राणीशाला व आवक्यएसी विभाषाच्या बलीने आयोजित केलेल्या मधुपदिका पालन या विषयावशील एक दिवसीय कार्यशाळेल बोलताना काढले .कार्यक्रमाच्या अध्यक्षरथानी महाविद्यालयाचे प्राचार्य डॉ. मिलिंद हजरे होते.

पारील म्हणाले पत्ने मधमाशीच्या पालनातून शेतीचे बाढवणे REPORT 810-02

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आहे.मधमाशी मकरंद गोळा करताना परागीभवन घडवून आणले आपल्याला नि वर्ग हादविण्याची चलवल तवार करावी लागेल. शेतकन्यांमध्ये मधमाशा पालना संदर्भात जागुकता निर्माण होका लागली आहे. जंगले कमी झाल्यामुले आग्या मधमाशा शहराकडे सरक् लागल्या आहेत, मधमाशी तिच्या निवासापासून जवळ जवळ दोन

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वाचविण्याच्या

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किलोमीटर पर्यंत प्रवास करते चळवळीत

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घेऊन सर्वांनी मधमाशीला त्तहभागी व्हावे असे आवाहन रयांनी केले. लाकडीपेटी मध्ये मधमाशांचे पालन करो करायचे हे प्रारयसिकासह दाखपिले.

बोलताना प्राथार्य डॉ.मिलिद

तिला 'कृषीलध्मी' असे म्हटले जाते.मधमाशांचे फायदे लक्षात

আশাদ विभाग प्रमुख प्रा. एस.ए.सावडे यांनी मानले. सुत्रसंचालन प्रा. आण्णासाहेब बागल यांनी केले.कार्यक्रमाला समन्वयक इमामदाप, उपप्राचार्य हॉ. एस.के.खाडे, व प्रा.जे.ए. वादव सर्व विभागाचे विभाग प्रमुख . प्राध्यापक , प्रशासकीय सेवक व विद्यार्थी नोड्या संख्येने उपस्थित होते.

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हजरे यांनी मधमाशा परागीभवनाचे काम कसे

वां गितले. ताचगाव

वाल, क्यातील

शेलकप्यांपर्यंत आपण ही

चळवळ चेऊन जाणार

वार्यक्रमाचे प्रास्ताविक

तेली यांनी केले तर

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समजून

सांगितले.

त्रॉ पी.बी.

प्राणीशास्त्र

इॉ.अलका

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वारतात है

असल्याचे

गगा-व सक

PRATIDWANI NEWS PAPER

मधमाशी निसर्गाला समुध्द करते : दयावान पाटील

मधमाशीला वाचविण्याच्या चळवळीत सहभागी व्हावे असे आवाहन त्यांनी केले. लाकडीपेटी मध्ये मधमाणांचे पालन कसे करायचे हे प्रात्यशिकासह दाखविले.

अध्यक्षस्थानावरून बोलताना प्राचार्य डॉ.मिलिंद हजरे यांनी मधमाशा परागोभवनाचे काम कसे करतात हे समजून सांगितले. तासगाव तालक्यातील शैतकऱ्यांपर्यंत आपण ही चळवळ घेऊन जाणार असल्याचे सांगितले, कार्यक्रमाचे प्रास्ताविक समन्वयक डॉ.पी.बी.तेली यांनी

केले तर आभार प्राणीशास्त्र विभाग प्रमुख प्रा. एस.ए.खाबडे यांनी मानले. सुत्रसंचालन प्रा. आण्णासाहेब बागल यांनी केले.कार्यक्रमाला नॅक समन्वयक हॉ.अलका इनामदार,उपप्राचार्य हॉ. एस.के.खाडे, व प्रा.वे.ए. पादव ,सर्व विधागाचे विभाग प्रमुख , प्राध्यापक , प्रशासकीय सेवक व विद्यार्थी मोठ्या संख्येने उपस्थित होते.



तालगढण्या ही. कतंतदारा पारील महाविद्यालयात आयोजित मधुमक्षिका पालन विषयावरील

मधमाशा पालना संदर्भात जागुकता निर्माण होऊ लागली आहे. जंगले कमी झाल्यामुळे आग्या मधमाशा शहराकडे सरक त्यगल्या आहेत.मधमाशी तिच्या निवासापासून जवळ जवळ दोन किलोमीटर पर्यंत प्रवास करते तिला 'कुपोलधर्मी' असे महटले जते.मचमाशांचे फायदे लक्षात घेऊन सर्वांनी

जनप्रवास । प्रतिनिधी इस्लामपूर : मधमाशी नष्ट झाली तर

सष्टी संप्रधात येईल मधमाशी वाचवणे ही काळाची गरज आहे . मधमाशी निसमांत्य समुद्ध करते असे उद्गर मधु अमृत हनी बी कॉन्झवेंशन अँड रिसर्च सेंटरचे श्री.दयावान पाटील यांनी पद्मभूषण डॉ.वसंतरावदादा पार्टील महाविद्यालय तासगाव येथे प्राणीशास व आयक्यएसी विभागाच्या कडीने आयोजित फेलेल्या कार्यतांत पर्वदांत कतान दशवन गटेत. मधमक्षिका पाठन या विषयावरील एक दिवसीय कार्यशाळेत बोलताना काढले.

कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ. मिलिंद हजरे होते. पाटील पूढे म्हणाले मधमाशीच्या पालनातून होतीचे उत्पन्न वादवणे शक्य आहे.मधमाशी मकरंद गोळा करताना परागीभवन घडवन आणते आपल्याला निसर्ग वाचविण्याची चळवळ तयार करावी लागेल. शेतकऱ्यांमध्ये

Humme

Principal

Dr. Milind S. Hujare P. D. V. P. Mahavidyalaya, Tasgaon

Teeps

Dr. P. B. Teli Training Coordinator

Sthalaly

Dr. S. A. Khabade Professor & Head Department of Zoology

"Dissemination of Education for Knowledge, Science, and Culture" -Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON "SERICULTURE"

2020-2021

Padmbhushan Dr. VasantraodadaPatilMahavidyala, Tasgaon,

Department of Zoology

Notice

15/02/2021

All staff members of zoology here by informed that the committee . of B.O.S. will be decided in this meeting so that the presence of all staff should be essential. The meeting will be started on $l\ell/2/2021$

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Head of Department HEAD DEPARTMENT OF ZOOLOGY, ---PADMABHUSHAN OR. VASANTRAD BADA PATA MAHAMUMALAYA, TASGADA, DIST, SANGLI

Padmbhushan Dr. VasantraodadaPatilMahavidyala, Tasgaon,

Department of Zoology

MEETING FOR SYLLABUS SETTING COMMITTEE

(B.O.S.)

16/02/2021

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The meeting of syllabus setting committee (B.O.S.) will be organized for the syllabus formation of "SERICULTURE" certificate course on 17/2/2021. The following members of the committee have to present for the syllabus setting.

| Sr. No. | Name of Faculty | Designation | Sign. |
|------------|--------------------|-------------|------------|
| 1 | Dr. Khabade S.A. | Chairman | (2) ANANDO |
| 2 | Dr. Teli P.B. | Member | TOOPA |
| 3 | Dr. Bhandare P.S. | Member | Blandae |
| 4 | Miss Patil P.P. | Member | Palif |
| 5 | Miss Gavali C.S. | Member | Auto |
| 6 | Miss Kusarkar S.P. | Member | A CONTRACT |

Yours Faithfully

2 2nand Course coordinator HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN OR, VASANTRAD DADA .'ATI. MANAVIDYALAYA, TASGADN, DIST, SANGLI

Padmbhushan Dr. VasantraodadaPatilMahavidyala, Tasgaon,

Department of Zoology

MINUETS OF MEETING

In the meeting of B.O.S.syllabus setting committee for "SERICULTURE" certificate course have decided and conformed the syllabus for this certificate course.

| Sr. No. | Name of Faculty | Designation | Sign. |
|------------|--------------------|-------------|--|
| 1 | Dr. Khabade S.A. | Chairman | Company |
| 2 | Dr. Teli P.B. | Member | Terope |
| 3 | Dr. Bhandare P.S. | Member | Blunder. |
| 4 | Miss Patil P.P. | Member | Paul |
| 5 | Miss Gavali C.S. | Member | frite |
| 6 | Miss Kusarkar S.P. | Member | and the second s |

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Head of Department HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN OR, VASANTRAD DADA (ATH MAHAVIDYALAYA, TASSAON, DIST, SANRT

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Padmbhushan Dr. VasantraodadaPatilMahavidyala, Tasgaon,

Department of Zoology

Notice

All the students of B.Sc. Part III are hereby informed that the certificate course in "SERICULTURE" is started from 17/02/ 2021 up to 22/03/2021. The presence of this course is compulsory so attain the same.

22/12410

Head of Department

HEAD DEPARTMENT OF ZOOLOGY. PADMABNUSHAN DR. MASANTRAD DADA (MI-MAHAVIDYALAVA, TASGADA, DIST, SANGH

| Type of course unit | : Compulsary |
|-------------------------|---|
| Duration of Course | : six week |
| | 17 February 2021 to 22 March 2021 |
| Fees of the course | |
| Delivery model | : Face to face |
| Language of Instruction | : English / Marathi |
| Course Co-ordinator | : Prof. (Dr.) Khabade S. A. |
| Course Co-coordinator | : Dr. Teli P.B. |
| Intake capacity | : 25 |
| Who will apply | : 10+2, B.Sc., B.Com., B.A., M.Sc., M.Com., M.A., |
| Computer Science. | |
| Hourse of work | : 33hrs. |
| Total hourse | : Theory- 24, Practical- 09 |

Details of the course:

| Name of the course : | Certificate course in "Sericulture" | |
|---------------------------|---|-------|
| Level : | Certificate | |
| Stream : | Science and any stream | |
| Eligibility criteria | : 10+2, B.Sc., B.Com., B.A., M.Sc., M.Com., M.A., | |
| Computer Science. | | 1.000 |
| Duration of the course | : 1.5 Months i.e 6weeks i.e 45 days | |
| Fees of the course | : Free | |
| Delivery model | : Face to face | |
| Language of Instruction | : English / Marathi | |
| Selection ?admision crite | eria : First come first serve. | |
| Lecture/ Practical Time | : 5.00 to 6.00 PM. | |

| Available infrastructu | re: Well equipped laboratory, small and large Scale Vermiculture units. |
|------------------------|---|
| Teaching staff | : Well qualified, experienced Guest Lecturers and Eminent professors will be invited |
| Non teaching staff | : 01 Laboratory Assistant and 02 Laboratory Attendants |

Examination structure & schedule:

At the end of course the examination will be conducted. Its notice & time table will be displayed for communication to the students at least before 10 days of the date of examination.

- Course VBT-01Theory paper (objective/short answer type/Long answer type) = 50marks, Two hours duration.
- 2. Course VBT-02 Practical paper =50 marks, two hours duration

Marking scheme & Award of grades: Average of the marks obtained in each paper will be calculated as: 50+50=100/2 = 50;

- 8-10 marks = 1point, C' grade pass;
- ii) 10-20 marks = 2 points, B' grade;
- iii) 20-30 marks = 3points, B+ grade;
- iv) 30-40 marks =4points, A' grade;
- v) 40-50 marks =5points, A+ grade

Award of Certificate carrying grades: after successful completion of course colorful certificate indicating grade will be awarded to the candidate.

Reservation: NA

Course Content: Syllabus/Program SCHEME

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Vermicomposting Biotechnology as one of the Certificate Course at Undergraduate, graduate and Post graduate students level

| Credit to be earned | 04 credit |
|-------------------------|-----------|
| Theory paper | 03 credit |
| Practical course /paper | 01 credit |

Proposed distribution of the course structure

| Sr.No. | Code | Title of the paper Vermicomposting Biotechnology | Credit pattern in L:T:P | Credit value |
|--------|---------|--|----------------------------|--------------|
| 1 | VBTT-01 | VBT Theory Related | 3:0:0 | 03 |
| 2 | VBTP-02 | VBT Practical Related | 0:0:1 | 01 |

Open selective course for any students enrolled in the College from different Disciplines

PADMBHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE IN SERICULTURE

Syllabus of Certificate Course in Sericulture

Paper-I: INTRODUCTION TO SERICULTURE

Unit- I: History and scope of Sericulture.

Mulberry and non-mulberry sericulture and its Life Cycle.

Geographical distribution of Distribution.scope of sericulture in India.

Unit- II: soil management and cultivation of mulberry (10)

Agro climatic zones and agro climatic conditions for mulberry cultivation, Site suitability for mulberry garden establishment, Soil Management.

Mulberry crop production- Planning for establishment of mulberry garden, Concept and establishment of mulberry garden for chawki& late age worms.

Paper-II: SILKWORM REARING & ITS ECONOMICS

Unit I: Pre-requisites for rearing

Selection of silkworm breeds for rearing, Disinfecting silkworm rearing house and appliances, silkworm rearing house, characteristics of rearing house.

Unit II: Egg handling, Incubation, Chawkiand Late Age Rearing (15)

(05)

(10)

Pre-incubation care of silkworm eggs, incubation, black boxing, hatching, brushing of larvae, chawki rearing, Characteristics of late age silkworms, environmental conditions for late age silkworm rearing, leaf harvest, transportation and preservation.

| Sr. | Code | Paper Title | Theory Hours | Practical Hours | External Marks | Internal Marks | Total |
|-----|----------|----------------------------------|-----------------|--------------------|-------------------|-------------------|-------|
| NO | D I | Introduction to Sericulture | 20 | 10 | 80 | 20 | 100 |
| 1 | Paper I | Introduction to Selfculture | 20 | 10 | 80 | 20 | 100 |
| 20 | Paper II | Silkworm Rearing & its economics | 20 | 10 | 00 | 20 | 100 |

| Sr.No | Name of the Students | Date | Date | Date | Date | Date |
|-------|-------------------------------|-----------|-------------|--------------|------------|-------------|
| | | 1712121 | 18/2/21 | 19/2/21 | 22/2/21 | 23/2/2/ |
| 1. | Bodake Sakshi Shankar | Fodate | todate | stodate | todate | Sodake |
| 2. | Erandole Shubhangi Mahadev | Snoranda | Anoranik | emeremadore | smerandal | amenundas |
| 3. | Ghagare Komal Bhairu | Bhayar | Bhagas | Chusaze | Roudze | Bragare |
| 4. | Jadhav Gouri Raghunath | GRIata | GREater | GREacher | GRIachal | altachay |
| 5. | Jamadade Mayuri Vishnu | Tamadad | Famadaly | atamadade | Tamadade | Jamadade |
| 6. | Kamble Prachi Vijay | Brinch | 1510006 | Bichien | mich | much |
| 7. | Kamble Shweta Vikas | Gradie | Queble | Grande Le | Brunble | Bronele |
| 8. | Mali Aishwarya Abaso | manal | Damel | Marriel | Annuly. | Baney |
| 9. | Mohite Priti Shankar | Bronohik | Remobile | Remohill. | Penalille | Remobil |
| 10. | Patil Prasad Kailas | RADIE | RANI | Ramie | Rfutu | Routin . |
| 11. | Patil Pratiksha Ravsaheb | Ppatit | 0 postal | opalit | 2 taby | Protet |
| 12. | Patil Preeti Rajendra | PERCEN | PORtil | P.EB.KU. | PREM | P.P.P.HI |
| 13. | Patil Rupali Parasharam | p.p.patil | o. P. Peti) | .p. P. Petil | o e patil. | p. p. Patil |
| 14. | Patil Shivani Avinash | Berghil | Papati | Report | Popatel | Q. Proil. |
| 15. | Pawar Surbhi Rajendra | spares | SPOLON | Haver | sharp- | Daver |
| 16. | Taur Shraddha Kailas | filme | Alexa | A ha | liter | deter |
| 17. | Jadhav Suhas Shivaji | Sulas | Rula | Eda | Pulse | Padal. |
| 18. | Thorat Dipti Laxman | TRAPEd | Doul | Bracal | Perab | Bocat |

| Sr.No | Name of the Students | Date | Date | Date | Date | Date |
|-------|-------------------------------|-------------|------------|------------|------------|-------------|
| | | 24 212 | 25/2/2 | 26/2/21 | 113121 | 2/3/2/ |
| 1. | Bodake Sakshi Shankar | Fodoke | totate | todate | todake | Fodake. |
| 2. | Erandole Shubhangi Mahadev | snerandel | Anerentak | Smorandoly | smerandak | Sourcindale |
| 3. | Ghagare Komal Bhairu | Bhagan | Chagae | Bregase | Bragaze | Charace |
| 4. | Jadhav Gouri Raghunath | GRIada/ | GRIates/ | GRIachey | GREachal | GREacher |
| 5. | Jamadade Mayuri Vishnu | Olamadan | Famadel. | Tamadade. | manadade | Stometade. |
| 6. | Kamble Prachi Vijay | minut | Swind | shiah | mind | somiad |
| 7. | Kamble Shweta Vikas | Brosle | Purble | BRANG LE | Broken. | BRANCIE |
| 8. | Mali Aishwarya Abaso | Samuel | Annell | Ramel | Aamel | Damey |
| 9. | Mohite Priti Shankar | Pemphi K | Pemohilit. | Psmohile. | Pemohile . | Perpohite . |
| 10. | Patil Prasad Kailas | Prutic | RPUHLI | Prucis | Retuin | Remain |
| 11. | Patil Pratiksha Ravsaheb | Pipostal | P. postol | 8. post | P. patet | Reater |
| 12. | Patil Preeti Rajendra | PRPatil | PRP.til | P.R.Patil | P.R.Palul | P.R. Potul |
| 13. | Patil Rupali Parasharam | R. P. Patil | R.P. Patil | R.P.Petil | R.P. Patil | p.p.petil |
| 14. | Patil Shivani Avinash | BAH | BAUL | BePattl | Barretti | Pertil: |
| 15. | Pawar Surbhi Rajendra | approx | sparov | shaver | gange | Savor |
| 16. | Taur Shraddha Kailas | Alter | Sthere | Setur | Steen | fifees |
| 17. | Jadhay Suhas Shivaji | Sular. | -Sular | Silas | Sular- | Eday |
| 18. | Thorat Dipti Laxman | Thorat | Protol | Thatal | Procet | marat |

| Sr.No | Name of the Students | Date | Date | Date | Date | Date |
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| | | 413121 | 8 13 121 | 9 3 21 | 12/3/21 | 1513121 |
| 1. | Bodake Sakshi Shankar | todate | stodate | stadolae | Sidake | bodate. |
| 2. | Erandole Shubhangi Mahadev | Ameritade | Anorematolo | enurendale | Enercondolo | menandala |
| 3. | Ghagare Komal Bhairu | Brugge | Augax | Bhayaze | Bragase | Pragaze |
| 4. | Jadhav Gouri Raghunath | GREater | GREder | GRIacher | GRIadia | altachey |
| 5. | Jamadade Mayuri Vishnu | manadash | Tamadus | Tamadade | Tamadade | Tomadade |
| 6. | Kamble Prachi Vijay | Blink | much | mulan | mariano | solvierd |
| 7. | Kamble Shweta Vikas | Queste | Genere | Geneic | Bronk Le | Brankle |
| 8. | Mali Aishwarya Abaso | Aans. | Banel | Barnel | Barrey | uma |
| 9. | Mohite Priti Shankar | Psmohilte. | Pemphilt. | Perphile. | Pemphik | Remobile |
| 10. | Patil Prasad Kailas | Renie | factor | Rauny | Rucie | Rhuli |
| 11. | Patil Pratiksha Ravsaheb | Poalet | opalit | erost | @ hatt | prof |
| 12. | Patil Preeti Rajendra | PPP.til | PORTI | Pippatil | PPBtil | PRPATI |
| 13. | Patil Rupali Parasharam | D.P.Patil | p.p.p.til | o. p. Patil. | o. P. Patil. | D.P.Potil |
| 14. | Patil Shivani Avinash | CaRutt | Papetti | Reputi. | Reputt | Robiti. |
| 15. | Pawar Surbhi Rajendra | mare | Darer | sharer | Staven | sauch |
| 16. | Taur Shraddha Kailas | Alter | liters | Stars | Stagen | Illeen |
| 17. | Jadhav Suhas Shivaji | Eda | gula | Colar | Rold - | Sular. |
| 18. | Thorat Dipti Laxman | Theread | moral | Barat | marat | Degreet |

| Sr.No | Name of the Students | Date | Date | Date | Date | Date |
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| 1. | Bodake Sakshi Shankar | Fodate | Fodake | Fodake | Fodate | todate |
| 2. | Erandole Shubhangi Mahadev | Amerantik | a pertodo | Amerandore | mercindole | conerandale |
| 3. | Ghagare Komal Bhairu | Brager | Bayar | Chaque | Rhann | Rhadana |
| 4. | Jadhav Gouri Raghunath | GREactal | (Nacha) | GREacher | GRIadial | GREachey. |
| 5. | Jamadade Mayuri Vishnu | Tamades | atimadel | Jamadad | Tamedade | Tamedade |
| 6. | Kamble Prachi Vijay | maniant | whiled | abaunt | Quinter | Sains |
| 7. | Kamble Shweta Vikas | Brankle | Bener | Benele | Bunkie | Brinkle |
| 8. | Mali Aishwarya Abaso | Damal | Ramel | Barrey | Amel | aand |
| 9. | Mohite Priti Shankar | Pemohile. | Perohild. | Pamohitz. | Pemohide. | Pemphilt. |
| 10. | Patil Prasad Kailas | Flexic | Rpcui | Reactin | Recuir | Renare |
| 11. | Patil Pratiksha Ravsaheb | P. Patit | Prost | Protet | Produt | Rontil. |
| 12. | Patil Preeti Rajendra | P. P.Rtil | PRATI | PERTU | P.RAJ | Preati |
| 13. | Patil Rupali Parasharam | R-P-Patil | R-P Pati | R.P. Patil | 8. P. Patil | p p. patil |
| 14. | Patil Shivani Avinash | Reportel | Parti | Repattil | Robull. | Q Pitti. |
| 15. | Pawar Surbhi Rajendra | Start | Part | Davor | Baut | Daver |
| 16. | Taur Shraddha Kailas | liter | flace | Side . | Store | liters |
| 17. | Jadhav Suhas Shivaji | Silve | Edg. | Sular- | Sulas | Eds. |
| 18. | Thorat Dipti Laxman | prosent. | Parat | Doral | toat | moral |

> Padmbhushan Dr. VasantraodadaPatilMahavidyala, Tasgaon, Certificate course on" SERICULTURE"

> > **Department of Zoology**

Notice

22/03 /2021

All the B.Sc. III students of Zoology department are hereby informed that the exam on "Sericulture Certificate Course "will be held on 24/03/2021. The attendance should be compulsory.

Head of Department

2forendo

Prof. (Dr.) S.A.Khabade)

HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN DR. VASANTRAD DADA JATR MAHAVIDIYALAVA, TASSAON, DIST SANGU

Dr. Bapuji Salunkhe Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur. (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON, TAL. TASGAON, DIST: SANGLI (MAHARASHTRA) PIN. 416312 **ADMISSION FORM** CERTIFICATE COURSE IN SEPICULTURE 2020-21 1. Name of the student Patil Shivani Avinash. 4. Caste Hindy maratha 5. Permanent address. Vrundavan, colony, Tasgaon, 7. E-mail Patil Shivam Avinas 123 @ gmail. com.

Signature of the student

AND ANNOVA AVA. TASGAON. DIST. SANGU

Course co-ordinator

Principal

Dr. Bapuii Salunkhe Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur. (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON, TAL. TASGAON, DIST: SANGLI (MAHARASHTRA) PIN. 416312 **ADMISSION FORM** CERTIFICATE COURSE IN SERICULTURE 2020-21 A. Name of the student ... Jadhav Gouri Raghunath 4. Caste....Open 5. Permanent address. AIP koroli (m) Tal- Miroj Dist- sangli 8. Paid the fees of Rs. 100 on. allacher

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN DR. VASANTRAD DADA JATH MAHAVIDYALAYA, TASGADN, DIST, SANGU

Signature of the student

Principal

Course co-ordinator

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TASGAON, TAL. TASGAON, DIST: SANGLI

(MAHARASHTRA)

PIN. 416312

ADMISSION FORM

CERTIFICATE COURSE IN SEPICULTURE 2020-21

1. Name of the student ... Exandele Shubbongi Mahadey....

2. Subject....Zoology......class.....B.SC. - III

3. Date of birth....18-.08-.2000

4. Caste....OB.C

5. Permanent address. At/P. Manerajuri. Tal - Tasgaon

.Dist.- Sangli

7. E-mail erandole shubbangi m. G. gmail. Com.

5merrandales

Signature of the student

Course co-ordinator



Head of the Department

HEAD DEPARTMENT OF ZOOLOGY, MADMABHUSHAN DR. VASANTRAO DADA J'ATH MAHAVIDYALAYA, TASGAON, DIST, SANGU Principal


| Dr. Bapuji Salunkhe | |
|---|------|
| Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur. | |
| (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) | |
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| TASGAON, TAL. TASGAON, DIST: SANGLI | |
| (MAHARASHTRA) | |
| PIN. 416312 | - |
| ADMISSION FORM | 1n |
| CERTIFICATE COURSE IN SEPICULTURE 2020-21 | 11 |
| 1. Name of the student Jamadade Mayuri vishnu | |
| 2. Subject. Z 00109 y | |
| 3. Date of birth | |
| 4. Caste open | |
| 5. Permanent address. A/P Manerajuri Tal - Tasgaon | |
| Dist - sangli | |
| 6. Contact Number. 915844 1000 | |
| 7. E-mail mayurijamdade 121@ gmail.com | |
| 8. Paid the fees of Rs | |
| | |

Course co-ordinator

Head of the Department

HEAD DEPARTMENT OF ZOOLOGY, MADMABHUSHAN DR. VASANTRAD DADA PATH "AHAVIDYALAYA, TASGADA, DIST, SANG!"

| Dr. Bapuji Salunkhe | |
|---|-----|
| Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur. | |
| (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) | |
| PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALA | YA. |
| TASGAON, TAL. TASGAON, DIST: SANGLI | |
| (MAHARASHTRA) | |
| PIN. 416312 | |
| ADMISSION FORM | |
| CERTIFICATE COURSE IN SEPICULTURE 2020-21 | |
| 1. Name of the student Mali Aishwarzyd Aba so | |
| 2. Subject | |
| 3. Date of birth908-2000 | |
| 4. Caste OBC Hindu Mali | |
| 5. Permanent address. Aamrai mala kavalapur | |
| Tal-mizaj Dist - Sangui | |
| 6. Contact Number | |
| 7. E-mail aish.wozta mali 2000 Qgmail com | |
| 8. Paid the fees of Rsonon | |
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Course co-ordinator

Head of the Department

HEAD DEPARTMENT OF ZOOLOGY, MADMADHUSHAN DR. VASANTRAD DADA . WITT MARAVIDYALAYA, TASGADAL DIST, SANGU

| Dr. Bapuji Salunkhe | |
|---|-------|
| Shri. Swami Vivekanand Shikshan Sanstha, Kolhapu | r. |
| (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) | |
| PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYA | LAYA. |
| TASGAON, TAL. TASGAON, DIST: SANGLI | |
| (MAHARASHTRA) | |
| PIN. 416312 | • |
| ADMISSION FORM | |
| CERTIFICATE COURSE IN SEPICULTURE 2020-21 | |
| 1. Name of the student | |
| 2. Subject. 7001094 class Bisc - TTT | |
| 3. Date of birth 51 1011998 | |
| 4. Caste NT-C Hindy-Dhanger | |
| 5. Permanent address. A. I.P Kavathe - e tand | |
| tal-Taiggon Dist-Sangli | |
| 6. Contact Number9766903936 | |
| 7. E-mail thorat dipti 1 @ 9 mail. com | |
| 8. Paid the fees of Rs | |
| | |

Course co-ordinator

Head of the Department

HEAD DEPARTMENT OF ZOOLOGY MOMABHIISHAN OR. VASANTRAD DADA JANK. MAHAYOMDI AYA, TASGADN, DIST, SAMGH

Dr. Bapuji Salunkhe

Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.

(The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe)

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,

TASGAON, TAL. TASGAON, DIST: SANGLI

(MAHARASHTRA)

PIN. 416312

ADMISSION FORM

CERTIFICATE COURSE IN SEPICULTURE 2020-21

1. Name of the student Patil Rupali parasharam

4. Caste....Hindy - Maratha

5. Permanent address....A/P. Arevade Jal-Jasgam

0151 - 59 Dgl1

6. Contact Number...9766380 742

7. E-mail. rupelipetil+67.1@gmail.com

8. Paid the fees of Rs.....leo....on....

R.P. Patil

Signature of the student

Course co-ordinator

Head of the Department

DEPARTMENT OF ZOOLOGY, PADMABHUSHAN DR. VASANTRAD DADA JATH 11 HAVILIYALAYA, TASSADN, DIST, SANGI

Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.

Dr. Bapuji Salunkhe

(The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe)

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,

TASGAON, TAL. TASGAON, DIST: SANGLI

(MAHARASHTRA)

PIN. 416312

ADMISSION FORM

CERTIFICATE COURSE IN SEPICULTURE 2020-21

2. Subject. 2000 gy. class B.Sc. TIL

4. Caste Hirdy - Mazatha

5. Permanent address. At - Norse Rodi. Po - Ped

Tal- Tasgaon Dist: - Sargli PinCode: 416312.

Contact Number. 7057353772 / 9765785268

7. E-mail. jadhavs2157@gmail.com.

8. Paid the fees of Rs...100.....on.....

Signature of the student

Course co-ordinator

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, MDMABHUSHAN DR. VASANTRAD DADA , ATM MARAVIDYALAYA, TASGAON, DIST, SANGU



Dr. Bapuji Salunkhe Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.

(The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe)

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,

TASGAON, TAL. TASGAON, DIST: SANGLI

(MAHARASHTRA)

PIN. 416312

ADMISSION FORM

CERTIFICATE COURSE IN SERICULTURE 2020-21



1. Name of the student Patil Prasad Kailas

2. Subject B.SC - III . Zoolog J. class B.SC - III

3. Date of birth...10/02/2000

4. Caste Hindy (Parit)

5. Permanent address ... kharale. Post ... kalundre

Tal-shirala Dist songli

6. Contact Number 9158291722

7. E-mail Prasad Kph Hil S8 @ gmail Com

Reutil

Signature of the student

Course co-ordinator

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Head of the Department HEAD DEPARTMENT OF ZOOLOGY, MADMADHUSHAN OR VASANTRAD DADA /ATR MAHAVIDYALAYA, TASGAON, DIST, SANGU

| Dr. Bapuji Salunkhe | |
|---|-------|
| Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur | r. |
| (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) | |
| PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYA | LAYA. |
| TASGAON, TAL. TASGAON, DIST: SANGLI | |
| (MAHARASHTRA) | - |
| PIN. 416312 | |
| ADMISSION FORM | |
| CERTIFICATE COURSE IN SERICULTURE 2020-21 | |
| 1. Name of the student Miss-Surbhi Raiendra Pawar | |
| 2. Subject | |
| 3. Date of birth\0.10812000 | |
| 4. Caste Hindu - Maratha | |
| 5. Permanent address <u>A.I.P. KaNala.pur</u> | |
| ••••••••••••••••••••••••••••••••••••••• | |
| ●6. Contact Number9.50.3971778 | |
| 7. E-mail. <u>Parrarsindenic2000 gmail: Lom</u> | |
| 8. Paid the fees of Rs1001-on | |
| | |

Course co-ordinator

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, MOMABINISHAN UR, VASANTRAD DADA / MTH MAHANDONI ANA, TASPAGN, DIST, SANGLI

Dr. Bapuji Salunkhe Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur. (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON, TAL. TASGAON, DIST: SANGLI (MAHARASHTRA) PIN. 416312 **ADMISSION FORM** CERTIFICATE COURSE IN SEPICULTURE 2020-21 1. Name of the student Patil Presti Rejendra 5. Permanent address. A.I.P. - chinchani. Tal - Tasgoon Dist - Sangli 7. E-mail Priti Patil 1438 @ gmail . Com

P.R.Patil . Signature of the student

Course co-ordinator

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, MUMARY DIGUNA, DISE SANGU

Dr. Bapuji Salunkhe Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur. (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON, TAL. TASGAON, DIST: SANGLI (MAHARASHTRA) PIN. 416312 ADMISSION FORM CERTIFICATE COURSE IN SEPICULTURE 2020-21 1. Name of the student Bodoke Saksh)....shankar 4. Caste...Hindu lingayat vani 5. Permanent address. AlP. Hotnur. Tol- Tosgoon Dist- Sangli 6. Contact Number. 7498048504 7. E-mail. bodakesakshi 2411@gmail.com.

Signature of the student

Course co-ordinator

Head of the Department HEAD DEPARTMENT OF ZOOLOGY. MADMABHUSHAN, DR. VASANTRAD BADA - ATH MAHAVIDYALAYA, TASGAON, DIST, SANGU

Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.

Dr. Bapuji Salunkhe

(The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe)

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,

TASGAON, TAL. TASGAON, DIST: SANGLI

(MAHARASHTRA)

PIN. 416312

ADMISSION FORM

CERTIFICATE COURSE IN SEPICULTURE 2020-21

1. Name of the student ... Mohile Prili shankar.

3. Date of birth... 7 - 01 - 2001

4. Caste....Hindu - Mang .

5. Permanent address. A/P. kavalaPur. Tal. MIYaI.

Dist Sangli.

7. E-mail Pritimohite \$44 @ 9mail. com.

8. Paid the fees of Rs. 100 /- _____on

<u>Pemohile</u>. Signature of the student

Course co-ordinator

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN DR. VASANIBAO DADA , ATH MAHAVEMALAM, TASEADH, DISL SANGH

| Dr. Bapuji Salunkhe | |
|---|-----|
| Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur, | |
| (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) | |
| PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAY | Δ |
| TASGAON, TAL. TASGAON, DIST: SANGLI | n., |
| (MAHARASHTRA) | |
| PIN. 416312 | |
| ADMISSION FORM | |
| CERTIFICATE COURSE IN SERICULTURE 2020-21 | |
| 1. Name of the student Kumble. Shweta | |
| 2. Subject | |
| 3. Date of birth | |
| 4. Caste. Mindu - Mahan | |
| 5. Permanent address | |
| | |
| 6. Contact Number | |
| 7. E-mail. Shwether Nikas Kamble @. gmail 6900. | |
| 8. Paid the fees of Rs | |
| | |

Course co-ordinator

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, MOMAGENESHING DADA ANTI MANAGENESHING DADA ANTI MANAGENESHING DADA ANTI

| Dr. Bapuji Salunkhe | |
|--|----------------|
| Shri. Swami Vivekanand Shikshan Sanstha, Kolhan | nr |
| (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe | |
| PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDA | / / 1 A V A |
| TASGAON, TAL. TASGAON, DIST: SANGU | ALATA, |
| (MAHARASHTRA) | |
| PIN. 416312 | |
| ADMISSION FORM | |
| CERTIFICATE COURSE IN SEPICULTURE 2020-21 | |
| 1. Name of the student Ghagare komal Bhairy | |
| 2. Subject | |
| 3. Date of birth | |
| 4. Caste | |
| 5. Permanent addressRt. Malwadi | |
| | |
| 6. Contact Number | |
| 7. E-mail | |
| 8. Paid the fees of Rslooon | |
| | |

Course co-ordinator

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, PADMADHUSHAN OR. VASANTRAD DADA "ATH MAHAVIDYALAYA, TASGAON, DIST, SANGLI

| Dr. Bapuji Salunkhe |
|---|
| Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur. |
| (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) |
| PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA. |
| TASGAON, TAL. TASGAON, DIST: SANGLI |
| (MAHARASHTRA) |
| PIN. 416312 |
| ADMISSION FORM |
| CERTIFICATE COURSE IN SEPICULTURE 2020-21 |
| 2 Subject Zoology |
| 2. SubjectclassBsc III |
| 3. Date of birth |
| 4. Caste |
| 5. Permanent address. AL. Malawadi (shivajinagar) |
| post. Bhilawadi Tal. Palus. Dist. Sangli. |
| 6. Contact Number |
| 7. E-mail. Kambleprachi 1112@gmail·com |
| 8. Paid the fees of Rs. 100 F |
| Davian |
| Signature of the student Course co-ordinator |
| |

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, MDMABHUSHAN OR WASHITRAD BADA ATTR MAILAVIDMALASA, WASHADIN, DISL SAMAU

| Dr. Bapuii Salunkhe |
|---|
| Shri. Swami Vivekanand Shikshan Sanstha, Kolhanur |
| (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe) |
| PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDVALAVA |
| TASGAON, TAL. TASGAON, DIST: SANGLI |
| (MAHARASHTRA) |
| PIN. 416312 |
| ADMISSION FORM |
| CERTIFICATE COURSE IN SEPICULTURE 2020-21 |
| 1. Name of the student Miss. S. handdha. Koilas. Taux |
| 2. Subject. Zoology |
| 3. Date of birth March 17th 2000 |
| 4. Caste Open Hindy - Maratha |
| 5. Permanent address New Bharati School, Tasgoon |
| |
| 6. Contact Number. 8767464139 |
| 7. E-mail. shraddhatawr 17. Qgonail. co.m. |
| 8. Paid the fees of Rs. 7 100 /on. |
| Jettan |
| Signature of the student Course co-ordinator |

Head of the Department

DEPARTMENT OF ZOOLOGY, MADMABHUSHAN DP. WISANTHED DADA / ATK MARAVIDYALAYA, TASGADA, DUST, SANGU

Dr. Bapuji Salunkhe Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur. (The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe)

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,

TASGAON, TAL. TASGAON, DIST: SANGLI

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PIN. 416312

ADMISSION FORM

CERTIFICATE COURSE IN SEPICULTURE 2020-21



1. Name of the student ... Patil Pratiksha Raysaheb

4. Caste Hindy Moratha

5. Permanent address. Near Renuto mander

Nijayngar galling 1 . vishrambag Sargti

7. E-mail pratik sharpatil @ gmail com

P. patil. Signature of the student

Course co-ordinator

Head of the Department HEAD DEPARTMENT OF ZOOLOGY, MANAGHUSHAN OF, VASANTRAD DADA / ATA MAHAWIDYALAYA, TASGADAL DIST, SANGU

Zoology Certificate Course In Zoology 2020-21

Student Enrollment List For Certificate cource in "Sericulture"

| Sr.N | No No. | Name of The Students | Signature |
|------|--------|----------------------------|----------------|
| 1 | 610 | BODAKE SAKSHI SHANKAR | 0 1 |
| 2 | 6103 | ERANDOLE SHUBHANGI MAHADEV | Bodakoss |
| 3 | 6104 | GHAGARE KOMAL BHAIRU | E.s.M. |
| 4 | 6105 | JADHAV GOURI RAGHUNATH | Veghagere |
| 5 | 6106 | JADHAV SUHAS SHIVAJI | (aunte) |
| 6 | 6107 | JAMADADE MAYURI VISHNU | Sedadhar |
| 7 | 6108 | KAMBLE PRACHI VUAY | Lamadas |
| 8 | 6109 | KAMBLE SHWETA VIKAS | F-V-Romber |
| 9 | 6110 | MALI AISHWARYA ABASO | Superble |
| 10 | 6111 | MOHITE PRITI SHANK AP | acmati |
| 11 | 6112 | PATIL PRASAD KAU AS | Debaptur |
| 12 | 6113 | PATH PRATIKSUA DAMA | Ratu |
| 13 | 6114 | PATH PRETT DATES | P.R. Patil |
| 14 | 6115 | PATH PHEAT PAR | P.R. Batil |
| 15 | 6116 | PATIL RUPALI PARASHARAM | POLL. |
| 16 | 6117 | PATIL SHIVANI AVINASH | Strapi) |
| 17 | 6110 | PAWAR SURBHI RAJENDRA | SRRausar |
| 1.9 | 0118 | TAUR SHRADDHA KAILAS | Taulo |
| 10 | 6119 | THORAT DIPTI LAXMAN | PHEL |
| 20 | 5756 | MALI NIVEDITA GAJANAN | (N. GODAN) |
| 20 | 3/57 | MALI SAKSHI MILIND | maus |
| 21 | 5758 | MANE PALLAVI APPASO | P.A. mane |
| 23 | 5759 | MANE SAYALI SHAHAJI | the trans |
| 24 | 5760 | MANE SONALI SUDHAKAR | S. D. Mane |
| 25 | 5763 | MANE SWAPNALI PRAKASH | mane. |
| 26 | 5762 | MOHITE AISHWARYA VINOD | m.A.y. |
| 27 | 5764 | MOHITE PRANALI ADHIKRAO | P.A. mohite. |
| 28 | 5765 | MORE ADARSH POPAT | MoreAP |
| 20 | 5765 | PARALE ASAWARI ADINATH | Pakel . |
| | 2700 | PATHAN SWALIYA JAMIRKHAN | P.S. Jamiskhan |

| 30 | 5767 | PATIL AJAY SAMBHAJI | t c out |
|------|------|------------------------------|-------------------|
| 31 | 5768 | PATIL AKSHADA SUNIL | Alida . |
| 32 | 5769 | PATIL KISHOR RAOSAHEB | in the second |
| - 33 | 5770 | PATIL KSHITIJA ASHOK | ICOSHORT PROJECT. |
| 34 | 5771 | PATIL NIKITA LAXMAN | Kartente . |
| 35 | 5772 | PATIL PANKAJ PRAKASH | Ear 100 |
| 36 | 5773 | PATIL PRATIKSHA POPAT | porkaj |
| 37 | 5774 | PATIL SACHIN BHAUSO | THE . |
| 38 | 5775 | PATIL SADHANA NANASAHEB | POHSB |
| 39 | 5776 | PATIL SHUBHAM VINAVAK | S.Poly. |
| 40 | 5777 | PATIL SNEHA MADHUKAP | J.V. Palit |
| 41 | 5778 | PATIL SNEHAL SANIAY | Statt1. |
| 42 | 5779 | PATIL SUIAV SURESH | S.S. Patil |
| 43 | 5780 | PATH SWAPNALLADUW | surer . |
| 44 | 5781 | PATH TELAS CIDISH | Pales. |
| 45 | 5782 | NATE LEAS GIRISH | Creat? |
| 46 | 5783 | PATIL VAISHNAVI BHANUDAS | V.B. Patil |
| 47 | 5784 | PAWAR NIKHIL NANDKUMAR | N: paulos. |
| 48 | 5794 | PAWAR PRATHAMESH CHANDRAKANT | PCRAVA |
| 40 | 5706 | POTDAK ABHISHEK POPAT | Astdar |
| 50 | 5707 | SALUNKHE PRANITA VISHNU | P- V-Salunkhe |
| 51 | 5700 | SALUNKHE ROHIT RAMESH | Resolutio |
| 53 | 5/88 | SAWANT SHIVANI RAMESH | S.R. Saunot |
| 34 | 5789 | SHELAKE ANJALI ADHIKRAO | ADShelakene |
| 33 | 5790 | SHENDAGE AJIT RAJARAM | ARStendergy |
| 54 | 5791 | SHENDAGE PRATIKSHA SANJAY | |
| 22 | 5792 | SHENDAGE SMITA SURESH | B |
| 56 | 5793 | SHINDE AKASH ANANDA | A.Ashinte |
| 57 | 5794 | SHINDE DIPTI MANIK | DMELIL |
| 58 | 5795 | SHINDE KASTURI NARAYAN | Dillippine |
| 59 | 5796 | SHINDE ROHIT CHANDRAKANT | Perspinatos |
| 60 | 5797 | SHINDE SAYALI SANJAY | Sishinde |
| 61 | 5798 | SHINDE SHUBHADA VASANT | C.V. Chirde |
| 62 | 5799 | SHINDE SHUBHAM DHANAJI | chida |
| 63 | 5800 | THORAT APURVA BALASO | ADUmal |
| 54 | 5801 | THORWAT ANIKET SANJAY | Alborian. |
| 55 | 5802 | UMRANI POOJA PRADHAN | the second second |

| 66 | 5803 | WAGH KULDEEP SHIDU | Rudeto - |
|-----|------|------------------------------------|----------------|
| 67 | 5804 | YADAV VARADRAJ ASHOK | October 1 |
| 68 | 5805 | YAMGAR SHWETA MAHADEV | Y.M. Shuel |
| 69 | 5806 | YEDAGE SAMBHAJI DASHRATH | |
| 70 | 5807 | ZAMBRE SHRADDHA SAYAJI | seambor . |
| 71 | 5904 | MOHITE PRATIK BHARAT | |
| 72 | 5905 | PATIL TEJASHRI SURESH | aregui. |
| 73 | 5906 | JADHAV SUDIKSHA DINESH | Tallas |
| 74 | 5909 | KAVATHEKAR ADITI SUDHAKAR | 2 yourse. |
| 75 | 5001 | BABAR SARIKA GANPATI | Patra eq_ |
| 76 | 5002 | BHOSALE DNYANESHWARI PARAMANAND | PP. Brosale. |
| 77 | 5003 | BHOSALE PALLAVI DILIP | ROB. |
| 78 | 5004 | CHAVAN PRATHMESH POPAT | chancempp. |
| 79 | 5005 | CHAVAN YASHWANT SANJAY | |
| 80 | 5006 | CHOUGULE NIKITA NAMDEV | chargellet. |
| 81 | 5007 | DAGADE TEJASHRI ADHIKARAO | TADagale |
| 82 | 5008 | DEVKULE NIKITA NISHIKANT | 1-0 |
| 83 | 5009 | EDAKE POOJA TUKARAM | Edghefoor. |
| 84 | 5010 | GADVIR MANALI DIPAK | 1 |
| 85 | 5011 | GAIKWAD NIKHIL SHANKAR | G.N.S. |
| 86 | 5012 | GHORAPADE SAKSHI BALASO | GBG. |
| 87 | 5013 | GOSAVI DEEPAK MANIK | Goscija |
| 88 | 5014 | GURAV JYOTI UTTAM | GUDDUL. |
| 89 | 5015 | JADHAV RATNADIP SANJAY | Jadhelyp |
| 90 | 5016 | JADHAV SNEHAL SADANAND | STAPHEN |
| 91 | 5017 | JADHAV SUSHAMA SAHEBRAV | tample. |
| 92 | 5018 | KAMBLE HARSH DILIP | Khe. |
| 93 | 5019 | KHARMATE JYOTI DIPAK | thomas tete |
| 94 | 5020 | KOLI PRATHAMESH SANJAY | PSKali |
| 95 | 5021 | LANDAGE ABHIJEET ANNASO | Landager. |
| 95 | 5022 | LOKHANDE TRUPTI RAJENDRA | T.R. Lokhandre |
| 96 | 5023 | MAINKAR DHANASHREE DATTATRAY | |
| 97 | 5024 | MALI ASHWINI SHIVAJI | a) marte . |
| 98 | 5025 | MANE NIKITA SHARAD | memere |
| 99 | 5026 | MANE SANGRAM BHIMRAO | 5.B.Mane |
| 100 | 5027 | MANE SHUBHAM NETAJI | # me |
| 101 | 5028 | MORE ARPITA VISHWAS | mored |
| 102 | 5029 | PATIL NIKITA SANJAY | Madth . |

| 103 | 5030 | PATIL PANKAJ ARUN | lette. |
|-----|------|-------------------------------------|---------------|
| 104 | 5031 | PATIL PRACHI AVADHUT | |
| 105 | 5032 | PATIL PRADNYA ANANDRAO | P.p. Anondas- |
| 106 | 5033 | PATIL PRAJAKTA MAHADEV | pate. |
| 107 | 5034 | PATIL PRANALI SANJAY | |
| 108 | 5035 | PATIL ROHAN BALASAHEB | P.R.R. |
| 109 | 5038 | RANKHAMBE HARSHVARDHAN SHRIRANG | Ronkhamble- |
| 110 | 5040 | SAYYAD TASNIM RIYAJ | |
| 111 | 5041 | SHINDE HARSHADA DHANAJI | S.H.D_ |
| 112 | 5042 | SHINDE PRATIKSHA RAJENDRA | |
| 113 | 5043 | SHINDE RUTUJA DILIP | R8p |
| 114 | 5044 | SURYAWANSHI HAREKRUSHNA DNYANDEV | share. |
| 115 | 5045 | SURYAWANSHI SANDHYA BHARAT | |
| 116 | 5046 | TAKALE MAYURI SUNIL | manot. |
| 117 | 5047 | VIBHUTE AKANKSHA SANTOSH | |
| 118 | 5048 | WAGH AKANKSHA DHONDIRAM | weede |
| 119 | 5191 | CHAVAN VISHWAJEET KRUSHNARAO | ~ + · |
| 120 | 5192 | DHISALE ANIKET SANJAY | (ASTALE. |
| 121 | 5193 | EDAKE RUTUJA JAGANNATH | TOUR. |
| 122 | 5195 | JADHAV ANJALI MACHINDRA | |
| 123 | 5196 | JADHAV APARNA RAMDAS | Phanola. |
| 124 | 5197 | JADHAV HARSHADA MAHADEV | Jailet . |
| 125 | 5199 | JADHAV SOMNATH SUBHASH | and |
| 126 | 5200 | JAMADADE VAISHNAVI HARISHCHANDRA | samdad . |
| 127 | 5201 | KADAM ABHIJEET MANIK | Kiedone / |

25/12/102

HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN DR. VASANTRAD DADA /ATN MAHAVIDYALAYA. TASBADN. DIST. SANSU

Zoology Certificate Course In Zoology 2020-21

Presentee List For Certificate course in "Sericulture"

| | Roll | | | ज | 2 | 5 | 2 | ate | 12 | 17 | 2/2 | 12 |
|-------|------|-------------------------------|---------|-------|-----|-----|-----|-------|-----|-----|-----|----|
| Sr.No | No. | Name of The Students | 17/2/21 | 8/242 | 202 | 212 | 332 | altha | 512 | 6/2 | 12 | 13 |
| 1 | 6101 | BODAKE SAKSHI SHANKAR | P | P | P | P | P | D | P | P | P | b |
| 2 | 6103 | ERANDOLE SHUBHANGI MAHADEV | P | P | P | P | p | p | P | b | P | P |
| 3 | 6104 | GHAGARE KOMAL BHAIRU | P | P | P | P | P | p | P | P | P | P |
| 4 | 6105 | JADHAV GOURI RAGHUNATH | P | P | P | P | D | p | p | b | P | P |
| 5 | 6106 | JADHAV SUHAS SHIVAJI | P | P | P | P | P | D | P | P | P | D |
| 6 | 6107 | JAMADADE MAYURI VISHNU | P | P | P | P | P | p | D | P | P | P |
| 7 | 6108 | KAMBLE PRACHI VIJAY | P | P | P | P | D | p | p | p | P | P |
| 8 | 6109 | KAMBLE SHWETA VIKAS | P | P | P | P | D | D | 0 | P | e | P |
| 9 | 6110 | MALI AISHWARYA ABASO | P | P | P | 0 | 0 | D | p | P | P | P |
| 10 | 6111 | MOHITE PRITI SHANKAR | P | P | D | 6 | p | p | n | P | P | P |
| 11. | 6112 | PATIL PRASAD KAILAS | P | P | 0 | 0 | n | D | n | þ | P | P |
| 12 | 6113 | PATIL PRATIKSHA RAVSAHEB | P | P | P | P | n | D | P | Þ | p | P |
| 13 | 6114 | PATIL PREETI RAJENDRA | D | A | 0 | P | 0 | D | n | Þ | P | D |
| 14 | 6115 | PATTL RUPALI PARASHARAM | P | P | P | P | 0 | 0 | n | Þ | P | P |
| 15 | 6116 | PATIL SHIVANI AVINASH | P | P | P | 0 | D | 0 | p | D | P | P |
| 16 | 6117 | PAWAR SURBHI RAJENDRA | P | P | A | P | D | o | D | P | P | P |
| 17 | 6118 | TAUR SHRADDHA KAILAS | P | P | 0 | P | D | P | p | P | P | p |
| 18 | 6119 | THORAT DIPTI LAXMAN | P | P | P | P | D | D | p | P | P | p |
| 19 | 5756 | MALI NIVEDITA GAJANAN | P | P | P | P | p | P | D | P | P | P |
| 20 | 5757 | MALI SAKSHI MILIND | P | P | P | P | P | p | p | P | P | A |
| 21 | 5758 | MANE PALLAVI APPASO | P | P | P | P | P | P | p | P | P | P |
| 22 | 5759 | MANE SAYALI SHAHAJI | P | P | P | P | р | P | р | P | P | P |
| 23 | 5760 | MANE SONALI SUDHAKAR | P | P | P | P | P | p | P | P | P | P |
| 24 | 5761 | MANE SWAPNALI PRAKASH | P | P | P | P | p | P | p | P | P | P |
| 25 | 5762 | MOHITE AISHWARYA VINOD | P | P | P | P | P | P | P | P | A | P |
| 26 | 5763 | MOHITE PRANALI ADHIKRAO | P | P | P | P | p | P | P | P | P | P |
| 27 | 5764 | MORE ADARSH POPAT | P | P | P | P | р | P | P | P | P | P |
| 28 | 5765 | PARALE ASAWARI ADINATH | P | P | P | f | P | P | P | A | P | P |

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|----|------|---------------------------------|-----|---|---|---|---|----|---|---|---|-------|
| 29 | 5766 | PATHAN SWALIYA JAMIRKHAN | P | P | P | P | P | P | A | p | A | P |
| 30 | 5767 | PATIL AJAY SAMBHAJI | P | P | P | P | P | P | P | P | P | P |
| 31 | 5768 | PATIL AKSHADA SUNIL | P | P | P | P | P | P | P | P | p | P |
| 32 | 5769 | PATIL KISHOR RAOSAHEB | P | P | P | P | P | P | P | A | A | P |
| 33 | 5770 | PATIL KSHITIJA ASHOK | P | P | P | P | P | P | P | p | D | A |
| 34 | 5771 | PATIL NIKITA LAXMAN | P | 9 | P | P | P | P | P | D | p | D |
| 35 | 5772 | PATIL PANKAJ PRAKASH | P | P | P | P | P | P | P | D | D | D |
| 36 | 5773 | PATIL PRATIKSHA POPAT | P | A | P | P | P | P | P | P | p | 0 |
| 37 | 5774 | PATIL SACHIN BHAUSO | P | P | P | P | 4 | P | P | A | þ | p |
| 38 | 5775 | PATIL SADHANA NANASAHEB | P | P | P | P | P | P | A | þ | D | D |
| 39 | 5776 | PATIL SHUBHAM VINAYAK | P | P | P | A | P | P | P | 5 | b | 0 |
| 40 | 5777 | PATIL SNEHA MADHUKAR | P | P | P | P | P | P | P | 0 | 6 | 0 |
| 41 | 5778 | PATIL SNEHAL SANJAY | A | P | P | P | P | P | P | A | D | D |
| 42 | 5779 | PATIL SUJAY SURESH | P | P | P | P | A | P | P | A | A | 0 |
| 43 | 5780 | PATIL SWAPNALI ADHIK | P | P | P | 0 | P | P | P | D | p | p |
| 44 | 5781 | PATIL TEJAS GIRISH | P | P | P | P | P | p | P | D | n | D |
| 45 | 5782 | PATIL VAISHNAVI BHANUDAS | 8 | P | P | P | P | P | p | 0 | p | b |
| 46 | 5783 | PAWAR NIKHIL NANDKUMAR | P | P | P | P | P | p | P | p | D | D |
| 47 | 5784 | PAWAR PRATHAMESH CHANDRAKANT | P | P | P | P | P | P | P | p | 0 | P |
| 48 | 5785 | POTDAR ABHISHEK POPAT | P | P | P | P | P | P | P | 0 | 0 | 0 |
| 49 | 5786 | SALUNKHE PRANITA VISHNU | P | P | P | P | P | P | P | 0 | 0 | 0 |
| 50 | 5787 | SALUNKHE ROHIT RAMESH | P | P | P | P | 0 | P | P | A | D | 10 |
| 51 | 5788 | SAWANT SHIVANI RAMESH | P | P | A | P | P | P | P | D | 0 | 0 |
| 52 | 5789 | SHELAKE ANJALI ADHIKRAO | P | P | P | P | P | A | P | D | P | 0 |
| 53 | 5790 | SHENDAGE AJIT RAJARAM | P | P | P | P | P | P | R | P | 0 | A |
| 54 | 5791 | SHENDAGE PRATIKSHA SANJAY | 8 | P | P | P | P | e | P | 1 | Ð | D |
| 55 | 5792 | SHENDAGE SMITA SURESH | P | P | P | P | P | P | P | 0 | P | p |
| 56 | 5793 | SHINDE AKASH ANANDA | P | P | P | P | A | P | P | D | 0 | D |
| 57 | 5794 | SHINDE DIPTI MANIK | P | P | P | P | P | P | P | A | 0 | p |
| 58 | 5795 | SHINDE KASTURI NARAYAN | P | P | P | P | P | P | P | D | D | A |
| 59 | 5796 | SHINDE ROHIT CHANDRAKANT | P | P | P | P | P | P | P | D | p | 0 |
| 60 | 5797 | SHINDE SAYALI SANJAY | P | P | P | P | P | P | P | A | P | p |
| 61 | 5798 | SHINDE SHUBHADA VASANT | P | P | P | P | P | P | P | D | P | a |
| 62 | 5799 | SHINDE SHUBHAM DHANAJI | P | P | P | P | P | A | P | P | B | P |
| 63 | 5800 | THORAT APURVA BALASO | P | P | P | P | P | 0 | P | p | p | 9 |
| 64 | 5801 | THORWAT ANIKET SANJAY | P | P | P | P | P | P | P | p | A | P |
| | | | 1.1 | - | _ | - | - | 1. | | | | 1 |

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| 65 | 5802 | UMRANI POOJA PRADHAN | P | P | P | P | P | P | P | Þ | P | P |
|-----|------|---------------------------------|---|----|---|---|---|----|---|---|----|----|
| 66 | 5803 | WAGH KULDEEP SHIDU | P | P | P | P | P | P | Þ | D | p | p' |
| 67 | 5804 | YADAV VARADRAJ ASHOK | P | P | P | P | P | p | P | P | 0 | n |
| 68 | 5805 | YAMGAR SHWETA MAHADEV | P | P | P | P | A | P | p | p | P | P |
| 69 | 5806 | YEDAGE SAMBHAJI DASHRATH | P | P | P | P | P | P | p | P | b | P |
| 70 | 5807 | ZAMBRE SHRADDHA SAYAJI | P | P | P | P | P | P | P | P | p | P |
| 71 | 5904 | MOHITE PRATIK BHARAT | P | P | 0 | 0 | P | P | p | P | n | P |
| 72 | 5905 | PATIL TEJASHRI SURESH | P | P | P | P | D | b | h | D | D | 0 |
| 73 | 5906 | JADHAV SUDIKSHA DINESH | 0 | D | 0 | 0 | P | 0 | P | T | p | P |
| 74 | 5909 | KAVATHEKAR ADITI SUDHAKAR | D | 0 | P | 6 | P | E | b | H | p | 0 |
| 75 | 5001 | BABAR SARIKA GANPATI | 6 | P | P | F | F | H | F | T | 1 | F |
| 76 | 5002 | BHOSALE DNYANESHWARI | b | D | P | P | P | P | P | P | 5 | P |
| 77 | 5003 | BHOSALE PALLAVI DILIP | 0 | P | P | F | P | T | P | F | P | P |
| 78 | 5004 | CHAVAN PRATHMESH POPAT | 6 | P. | P | P | P | Th | P | P | P | P |
| 79 | 5005 | CHAVAN YASHWANT SANJAY | D | D | P | P | 5 | P | P | P | P | P |
| 80 | 5006 | CHOUGULE NIKITA NAMDEV | D | p | P | r | A | P | T | P | P | P |
| 81 | 5007 | DAGADE TEJASHRI ADHIKARAO | 6 | P | F | T | P | F | P | P | P | P |
| 82 | 5008 | DEVKULE NIKITA NISHIKANT | P | P | P | D | P | b | 6 | p | 3 | 1 |
| 83 | 5009 | EDAKE POOJA TUKARAM | p | P | 0 | 0 | P | P | b | P | n | P |
| 84 | 5010 | GADVIR MANALI DIPAK | P | P | P | T | P | p | 0 | F | P | 8 |
| 85 | 5011 | GAIKWAD NIKHIL SHANKAR | P | P | P | P | P | P | p | p | b | b |
| 86 | 5012 | GHORAPADE SAKSHI BALASO | P | A | P | 0 | P | P | P | D | p | 0 |
| 87 | 5013 | GOSAVI DEEPAK MANIK | P | P | P | 0 | P | P | p | A | P | p |
| 88 | 5014 | GURAV JYOTI UTTAM | P | P | P | P | P | P | P | b | P | P |
| 89 | 5015 | JADHAV RATNADIP SANJAY | P | P | P | P | A | P | P | Þ | b | A |
| 90 | 5016 | JADHAV SNEHAL SADANAND | P | P | P | P | P | Þ | P | P | P | B |
| 91 | 5017 | JADHAV SUSHAMA SAHEBRAV | 9 | P | P | P | P | P | p | p | P | b. |
| 92 | 5018 | KAMBLE HARSH DILIP | P | P | P | P | P | P | P | p | D | p |
| 93 | 5019 | KHARMATE JYOTI DIPAK | P | P | P | A | P | P | p | P | P | P |
| 94 | 5020 | KOLI PRATHAMESH SANJAY | P | P | ρ | P | P | þ | P | b | þ | P |
| 95 | 5021 | LANDAGE ABHIJEET ANNASO | P | P | P | P | A | A | P | P | P | P |
| .95 | 5022 | LOKHANDE TRUPTI RAJENDRA | P | P | P | P | P | P | P | P | P | P |
| 96 | 5023 | MAINKAR DHANASHREE DATTATRAY | P | P | P | P | P | P | A | P | P | P |
| 97 | 5024 | MALI ASHWINI SHIVAJI | P | P | P | P | P | P | p | p | þ | P |
| 98 | 5025 | MANE NIKITA SHARAD | P | P | A | P | P | P | p | 0 | b- | p |
| 99 | 5026 | MANE SANGRAM BHIMRAO | 9 | P | P | P | P | b | p | P | P | 0 |
| 100 | 5027 | MANE SHUBHAM NETAJI | P | P | P | P | P | P | þ | 0 | P | A |
| 101 | 5028 | MORE ARPITA VISHWAS | P | p | P | P | P | Þ | p | þ | A | P |

| 102 | 5029 | PATIL NIKITA SANJAY | P | P | P | P | P | P | P | P | P | 9 |
|-----|------|-------------------------------------|---|-------|--------|-------|---|---|-------|-------|----|--------|
| 103 | 5030 | PATIL PANKAJ ARUN | P | P | P | P | P | P | P | P | P | P |
| 104 | 5031 | PATIL PRACHLAVADHUT | P | P | P | P | P | P | P | P | P | P |
| 103 | 5032 | PATIL PRADNYA ANANDRAO | P | P | P | P | P | P | A | P | P | p. |
| 106 | 5033 | PATIL PRAJAKTA MAHADEV | P | P | P | P | P | P | P | P | P | a |
| 107 | 5034 | PATIL PRANALI SANJAY | p | P | P | P | p | P | P | P | A | P |
| 108 | 5035 | PATIL ROHAN BALASAHEB | P | P | P | P | P | P | Þ | P | P | P |
| 109 | 5038 | RANKHAMBE HARSHVARDHAN SHRIRANG | P | P | P | ρ | P | P | P | P | P | P |
| 110 | 5040 | SAYYAD TASNIM RIYAJ | P | P | P | P | P | P | p | Þ | P | P |
| 111 | 5041 | SHINDE HARSHADA DHANAJI | P | P | P | P | P | P | P | P | P | P |
| 112 | 5042 | SHINDE PRATIKSHA RAJENDRA | P | P | P | P | P | P | P | P | P | P |
| 113 | 5043 | SHINDE RUTUJA DILIP | P | P | P | P | P | P | P | p | P | P |
| 114 | 5044 | SURYAWANSHI HAREKRUSHNA DNYANDEV | P | P | P | P | P | P | P | P | P | A |
| 115 | 5045 | SURYAWANSHI SANDHYA BHARAT | P | P | P | P | P | A | P | P | P | P |
| 116 | 5046 | TAKALE MAYURI SUNIL | P | P | P | P | A | P | P | P | P | p |
| 117 | 5047 | VIBHUTE AKANKSHA SANTOSH | P | P | P | P | P | P | P | P | A | P |
| 118 | 5048 | WAGH AKANKSHA DHONDIRAM | P | A | P | 0 | P | 0 | P | 6 | P | D |
| 119 | 5191 | CHAVAN VISHWAJEET KRUSHNARAO | P | p | P | P | P | P | P | P | P | P |
| 120 | 5192 | DHISALE ANIKET SANJAY | P | P | P | P | P | P | A | P | P | P |
| 121 | 5193 | EDAKE RUTUJA JAGANNATH | P | P | P | P | P | P | P | P | P | P |
| 122 | 5195 | JADHAV ANJALI MACHINDRA | P | P | P | P | P | D | P | P | A | P |
| 123 | 5196 | JADHAV APARNA RAMDAS | P | P | P | P | P | P | P | P | P | P |
| 124 | 5197 | JADHAV HARSHADA MAHADEV | P | P | P | P | P | P | P | D | P | à |
| 125 | 5199 | JADHAV SOMNATH SUBHASH | P | P | P | 0 | P | p | P | A | P | A |
| 126 | 5200 | JAMADADE VAISHNAVI HARISHCHANDRA | P | P | P | P | p | P | P | P | P | P |
| 127 | 5201 | KADAM ABHIJEET MANIK | P | PI | P | P | p | P | A | P | P | P |
| | | | Ð | Shade | Jung - | Teele | A | A | Rulye | TEEPB | A. | dent - |

Zoology Certificate Course In Zoology 2020-21

Presentee List For Certificate course in "Sericulture"

| | | | - | | | | | Date | | | | - |
|-------|------|-------------------------------|----|----|---|-----|-----|------|----|----|----|----|
| Sr.No | Roll | Name of The Students | 2 | N | 2 | 2 | 0 | a | N | 25 | 2 | N |
| | | | 0 | 33 | 5 | 100 | 33 | 83 | 33 | 0 | 23 | 33 |
| T | 6101 | BODAKE SAKSHI SHANKAR | P | A | P | P | 0 | 8 | P | P | P | 10 |
| 2 | 6103 | ERANDOLE SHUBHANGI MAHADEV | ·P | P | P | P | A | P | P | p | P | 10 |
| 3 | 6104 | GHAGARE KOMAL BHAIRU | P | P | A | b | P | P | p | P | P | D |
| 4 | 6105 | JADHAV GOURI RAGHUNATH | P | P | D | D | P | 0 | P | A | P | P |
| 5 | 6106 | JADHAV SUHAS SHIVAJI | P | P | P | P | A | P | 10 | P | 12 | 12 |
| 6 | 6107 | JAMADADE MAYURI VISHNU | P | P | P | 4 | P | P | 10 | D | 10 | p |
| 7 | 6108 | KAMBLE PRACHEVDAY | P | e | P | P | 0 | P | b | P | p | P |
| 8 | 6109 | KAMBLE SHWETA VIKAS | P | P | Þ | D | 0 | P | 0 | p | D | P |
| 9 | 6110 | MALI AISHWARYA ABASO | 6 | P | D | D | P | P | 6 | P | p | 12 |
| 10 | 6111 | MOHITE PRITI SHANKAR | P | 8 | P | 0 | D | 0 | P | p | p | P |
| н | 6112 | PATIL PRASAD KAILAS | P | P | D | P | P | P | A | P | P | D |
| 12 | 6113 | PATIL PRATIKSHA RAVSAHEB | D | R | P | 0 | 0 | Þ | 0 | D | p | D |
| 13 | 6114 | PATIL PREETI RAJENDRA | D | 0 | D | n | P | D | D | | P | 0 |
| -14 | 6115 | PATIL RUPALI PARASHARAM | P | 0 | 0 | P | D | P | p | A | P | n |
| 15 | 6116 | PATIL SHIVANI AVINASH | P | 0 | 0 | 0 | P | 0 | P | 5 | - | 0 |
| 16 | 6117 | PAWAR SURBHI RAJENDRA | P | P | P | 0 | 0 | 0 | P | 0 | A | p |
| 17 | 6118 | TAUR SHRADDHA KAILAS | P | A | 2 | 0 | D | b | P | p | 10 | D |
| 18 | 6119 | THORAT DIPTI LAXMAN | P | R | P | 0 | D | 0 | 1 | 0 | 0 | 10 |
| 19 | 5756 | MALI NIVEDITA GAJANAN | P | e | P | P | P | D | F | D | 10 | P |
| 20 | 5757 | MALI SAKSHI MILIND | P | P | P | 0 | 0 | 6 | P | P | b | p |
| 21 | 5758 | MANE PALLAVI APPASO | D | P | 2 | 0 | 0 | D | 0 | p | 0 | P |
| 22 | 5759 | MANE SAYALI SHAHAJI | P | 0 | P | 6 | 6 | P | P | | 12 | 10 |
| 23 | 5760 | MANE SONALI SUDHAKAR | p | P | P | 0 | 6 | 0 | 0 | 0 | P | 0 |
| 24 | 5761 | MANE SWAPNALI PRAKASH | P | 0 | 0 | e e | V O | D | FI | r | 0 | D |
| 25 | 5762 | MOHITE AISHWARYA VINOD | D | 0 | 0 | 0 | 0 | 6 | P | P | D | D |
| 26 | 5763 | MOHITE PRANALI ADHIKRAO | D | 0 | 0 | 0 | 2 | D | 10 | D | p | 12 |
| 27 | 5764 | MORE ADARSH POPAT | p | F | 2 | 0 | P | b | 12 | 0 | D | D |
| 28 | 5765 | PARALE ASAWARI ADINATH | D | h | 0 | 6 | b | P | | - | r | 0 |

| 29 | 5766 | PATHAN SWALIYA JAMIRKHAN | P | P | 9 | 8 | P | 3 | 9 | P | P | P |
|----|-------|---------------------------------|---|----|----|----|----|----|----|----|----|----|
| 30 | 5767 | PATIL AJAY SAMBHAJI | P | P | P | 8 | P | 8 | P | P | 8 | 2 |
| 31 | 5768 | PATIL AKSHADA SUNIL | P | P | P | P | 12 | R | P | P | P | 2. |
| 32 | 5769 | PATIL KISHOR RAOSAHEB | P | e | P | P | P | P | P | 8 | 9 | 0 |
| 33 | 5770 | PATIL KSHITIJA ASHOK | P | P | P | 8 | p | P | 0 | P | P | 0 |
| 34 | 5771 | PATIL NIKITA LAXMAN | A | 12 | 2 | P | 0 | P | P | P | 0 | 0 |
| 35 | 5772 | PATIL PANKAJ PRAKASH | P | P | P | P | P | A | P | P | P | P |
| 36 | 5773 | PATIL PRATIKSHA POPAT | P | P | 9 | P | 10 | P | 2 | P | P | P |
| 37 | \$774 | PATIL SACHIN BHAUSO | P | P | P | 0 | P | P | 0 | P | 0 | P |
| 38 | 5775 | PATIL SADHANA NANASAHEB | P | A | P | 12 | P | 0 | P | P | 0 | 12 |
| 39 | 5776 | PATIL SHUBHAM VINAYAK | P | P | P | P | 9 | Þ | P | P | ò | P |
| 40 | 5777 | PATIL SNEHA MADHUKAR | P | 0 | 9 | P | 9 | P | 12 | P | 0 | P |
| 41 | 5778 | PATIL SNEHAL SANJAY | P | P | P | P | A | 0 | P | P | P | P |
| 42 | 5779 | PATIL SUJAY SURESH | P | 0 | P | P | 0 | P | P | P | A | P |
| 43 | 5780 | PATIL SWAPNALI ADHIK | P | 8 | P | P | P | 0 | P | P | 0 | p- |
| 44 | 5781 | PATIL TEJAS GIRISH | P | P | P | P | P | 0 | P | P | 0 | b |
| 45 | 5782 | PATIL VAISHNAVI BHANUDAS | P | P | P | P | P | P | P | P | p | P |
| 46 | 5783 | PAWAR NIKHIL NANDKUMAR | P | p | P | 12 | P | P | P | P | P | P |
| 47 | 5784 | PAWAR PRATHAMESH CHANDRAKANT | P | P | P | P | P | P | P | P | P | P |
| 48 | 5785 | POTDAR ABHISHEK POPAT | P | p | 12 | P | P | D | P | P | D | D |
| 49 | 5786 | SALUNKHE PRANITA VISHNU | 0 | P | p | P | P | p | P | P | 0 | P |
| 50 | 5787 | SALUNKHE ROHIT RAMESH | P | P | P | P | P | 0 | P | 2 | p | A |
| 51 | 5788 | SAWANT SHIVANI RAMESH | P | P | P | p | P | p | P | 10 | P | 12 |
| 52 | 5789 | SHELAKE ANJALI ADHIKRAO | P | P | P | P | P | 0 | P | p | p | 0 |
| 53 | 5790 | SHENDAGE AUT RAIARAM | P | P | D | A | P | 0 | P | P | 0 | 0 |
| 54 | 5791 | SHENDAGE PRATIKSHA SANJAY | 2 | P | P | 0 | e | n | P | P | 0 | P |
| 55 | 5792 | SHENDAGE SMITA SURESH | P | P | P | 0 | D | P | p | P | P | P |
| 36 | 5793 | SHINDE AKASH ANANDA | P | P | P | P | P | P | P | P | P | D |
| 57 | 5794 | SHINDE DIPTI MANIK | P | P | 0 | P | P | p | P | 0 | P | D |
| 58 | 5795 | SHINDE KASTURI NARAYAN | P | 0 | P | P | P | D | P | P | 12 | 0 |
| 59 | 5796 | SHINDE ROHIT CHANDRAKANT | P | p | P | P | 0 | D | P | P | p | 0 |
| 60 | 5797 | SHINDE SAYALI SANJAY | P | P | 0 | P | P | P | P | P | 0 | p |
| 61 | 5798 | SHINDE SHUBHADA VASANT | p | 9 | P | P | p | P | P | P | P | P |
| 62 | 5799 | SHINDE SHUBHAM DHANAJI | P | 9 | p | p | P | P | P | P | P | P |
| 63 | 5800 | THORAT APURVA BALASO | P | P | 0 | P | D | 12 | P | A | P | 0 |
| 64 | 5801 | THORWAT ANIKET SANJAY | P | p | p | 12 | p | P | p | 10 | P | P |

al a

| 65 | 5802 | UMRANI POOJA PRADHAN | P | 9 | 9 | R | P | P | P | A | P | P |
|-----|-------|---------------------------|----|---|---|----|----|------------|----|---|---|----|
| 66 | 5803 | WAGH KULDEEP SHIDU | P | 9 | P | P | P | A | 9 | P | P | P |
| 67 | 5804 | YADAV VARADRAJ ASHOK | P | P | A | P | P | P | A | p | P | P |
| 68 | 5805 | YAMGAR SHWETA MAHADEV | P | P | R | P | 8 | P | A | P | P | P |
| 69 | 5806 | YEDAGE SAMBHAJI DASHRATH | p | 8 | 0 | D | p | 0 | P | A | P | P |
| 70 | 5807 | ZAMBRE SHRADDHA SAYAJI | P | P | P | P | A | P | P | P | p | P |
| 71 | 5904 | MOHITE PRATIK BHARAT | P | P | e | P | 0 | P | D | A | P | P |
| 72 | 5905 | PATIL TEJASHRI SURESH | P | P | 6 | 0 | Þ | 0 | P | P | P | P |
| 73 | 5906 | JADHAV SUDIKSHA DINESH | P | 8 | P | 13 | P | 6 | D | D | P | D |
| 74 | 5909 | KAVATHEKAR ADITI SUDHAKAR | P | P | R | 0 | P | 0 | in | D | 0 | 0 |
| 75 | 5001 | BABAR SARIKA GANPATI | P | P | 0 | \$ | P | The second | 10 | P | p | .0 |
| 76 | 5002 | BHOSALE DNYANESHWARI | 0 | 0 | D | P | p | F | h | D | 0 | - |
| 77 | 5003 | BHOSALE PALLAVI DILIP | D | D | N | N | 5 | 0 | D | 0 | D | P |
| 78 | 5004 | CHAVAN PRATHMESH POPAT | P | P | P | 5 | 0 | 1 | 0 | D | 0 | 0 |
| 79 | 5005 | CHAVAN YASHWANT SANJAY | e | 0 | 8 | 2 | D | F | 10 | 0 | 0 | 10 |
| 80 | 5006 | CHOUGULE NIKITA NAMDEV | P | P | p | A | 0 | 6 | P | A | p | 0 |
| 81 | 5007 | DAGADE TEJASHRI ADHIKARAO | P | P | P | P | to | 0 | P | D | A | p. |
| 82 | 5008 | DEVKULE NIKITA NISHIKANT | C | 9 | P | 0 | P | è | A | P | p | P |
| 83 | 5009 | EDAKE POOJA TUKARAM | P | 8 | 9 | P | P | Ð | P | A | P | 0 |
| 84 | 5010 | GADVIR MANALI DIPAK | P | P | P | P | P | P | P | p | A | P |
| 85 | 5011 | GAIKWAD NIKHIL SHANKAR | 8 | P | 3 | P | 8 | P | P | P | P | P |
| 86 | 5012 | GHORAPADE SAKSHI BALASO | P | P | P | P | P | 9 | 2 | A | p | 10 |
| 87 | 5013 | GOSAVI DEEPAK MANIK | P | A | P | D | P | P | P | P | A | P |
| 88 | 5014 | GURAV JYOTI UTTAM | P | P | 9 | R | P | A | P | P | P | P |
| 89 | 5015 | JADHAV RATNADIP SANJAY | P | P | P | P | P | P | P | P | p | P |
| 90 | 5016 | JADHAV SNEHAL SADANAND | P | 8 | P | P | P | P | Ð | Þ | P | P |
| 91 | 5017 | JADHAV SUSHAMA SAHEBRAV | P | P | P | P | P | P | A | P | P | P |
| 92 | 5018 | KAMBLE HARSH DILIP | P | P | P | P | P | P | P | P | P | A |
| 93 | 5019 | KHARMATE JYOTI DIPAK | 17 | R | 9 | Þ | 8 | P | P | P | A | P |
| 94 | 5020 | KOLI PRATHAMESH SANJAY | P | P | P | P | P | P | P | A | P | p. |
| 95 | 5021 | LANDAGE ABHIJEET ANNASO | P | P | P | p | P | F | A | P | P | P |
| 95 | 5022 | LOKHANDE TRUPTI RAJENDRA | P | P | P | 9 | A | P | P | P | P | P |
| 96 | \$023 | DATTATRAY | 8 | P | P | P | P | P | A | 9 | P | P |
| 97 | 5024 | MALI ASHWINI SHIVAJI | P | 9 | P | 8 | P | P | P | P | A | P |
| 98 | 5025 | MANE NIKITA SHARAD | P | P | P | r | P | A | P | P | P | P |
| 99 | 5026 | MANE SANGRAM BHIMRAO | P | P | P | P | P | P | P | A | p | P |
| 100 | 5027 | MANE SHUBHAM NETAJI | P | 8 | 8 | P | P | A | P | P | P | P |
| 101 | 5028 | MORE ARPITA VISHWAS | P | P | P | P | P | P | P | P | A | P |

| 102 | 5029 | PATIL NIKITA SANJAY | 9 | P | A | P | P | P | P | P | P | P |
|-------|------|-------------------------------------|----|---|----|---|---|----|---|----|-----|---|
| 103 | 5030 | PATIL PANKAJ ARUN | P | A | P | P | P | P | P | P | P | P |
| 104 | 5031 | PATIL PRACHI AVADHUT | P | P | P | P | A | P | P | P | P | P |
| 105 | 5032 | PATIL PRADNYA ANANDRAO | P | P | A | P | P | P | P | P | P | P |
| 106 | 5033 | PATIL PRAJAKTA MAHADEV | P | P | P | P | P | A | p | p | 0 | P |
| 107 | 5034 | PATIL PRANALI SANJAY | P | P | P | A | P | P | P | P | P | P |
| 108 | 5035 | PATIL ROHAN BALASAHEB | P | P | P | P | P | P | P | A | P | P |
| 109 | 5038 | RANKHAMBE HARSHVARDHAN SHRIRANG | P | P | P | A | P | P | P | P | P | P |
| 110 | 5040 | SAYYAD TASNIM RIYAJ | P | P | P | P | P | P | P | P | A | P |
| 111 | 5041 | SHINDE HARSHADA DHANAJI | P | P | A | P | P | P | P | P | P | P |
| 112 | 5042 | SHINDE PRATIKSHA RAJENDRA | P | P | 10 | P | P | P | P | P | P | A |
| 113 | 5043 | SHINDE RUTUJA DILIP | 10 | P | P | P | P | A | P | P | P | P |
| 114 | 5044 | SURYAWANSHI HAREKRUSHNA DNYANDEV | P | P | P | P | P | P | P | A | P | P |
| 115 | 5045 | SURYAWANSHI SANDHYA BHARAT | P | P | A | P | P | P | P | P | P | P |
| 116 | 5046 | TAKALE MAYURI SUNIL | 9 | P | P | P | P | A | P | P | P | P |
| 117 | 5047 | VIBHUTE AKANKSHA SANTOSH | P | P | ₽ | P | A | P | P | P | P | P |
| 118 | 5048 | WAGH AKANKSHA DHONDIRAM | 8 | P | P | P | P | P | P | A | P | P |
| 119 | 5191 | CHAVAN VISHWAJEET KRUSHNARAO | P | P | P | A | P | P | P | P | P | P |
| 120 | 5192 | DHISALE ANIKET SANJAY | P | P | P | P | P | A | P | P | P | P |
| 121 | 5193 | EDAKE RUTUJA JAGANNATH | P | P | P | P | P | P | P | P | (f) | P |
| 122 | 5195 | JADHAV ANJALI MACHINDRA | P | P | A | P | P | P | P | P | P | P |
| 123 | 5196 | JADHAV APARNA RAMDAS | 9 | P | P | P | P | A | P | P | P | P |
| 124 | 5197 | JADHAV HARSHADA MAHADEV | P | A | P | P | P | P | P | P | P | P |
| 125 | 5199 | JADHAV SOMNATH SUBHASH | P | P | P | P | P | P | P | P | P | A |
| 126 | 5200 | JAMADADE VAISHNAVI HARISHCHANDRA | P | P | P | P | P | P | P | P | A | P |
| 1.9.0 | 5201 | KADAM ABHUEET MANIK | P | P | D | P | P | Pt | P | P. | P | P |

Zoology Certificate Course In Zoology 2020-21

Presentee List For Certificate course in "Sericulture"

| 6 N | Roll | No. of The Candeste | 3/21 | 3/21 |]2] | 21 |)2) D | ate 2/8 | 8/2/ | 3/21 | 3/21 | 3/2 |
|-------|-------|-------------------------------|------|------|------|------|----------|---------|------|------|------|-----|
| Sr.No | No. | Name of The Students | 12 | 15 | 16 3 | 17/3 | 83 | 19 | 20)3 | 21 | 22 | 22) |
| 1 | 6101 | BODAKE SAKSHI SHANKAR | P | P | P | P | P | Þ | 8 | P | P | P |
| 2 | 6103 | ERANDOLE SHUBHANGI MAHADEV | P | P | P | P | P | P | P | P | P | 1 |
| 3 | 6104 | GHAGARE KOMAL BHAJRU | P | P | P | P | P | P | 8 | P | P | P |
| 4 | 6105 | JADHAV GOURI RAGHUNATH | P | P | P | P | P | 0 | P | P | P | P |
| 5 | 6106 | JADHAV SUHAS SHIVAJI | P | P | P | P | P | P | P | P | P | P |
| 6 | 6107 | JAMADADE MAYURI VISHNU | P | P | P | P | P | P | P | P | P | P |
| 7 | 6108 | KAMBLE PRACHI VIJAY | P | P | P | P | P | P | P | P | P | P |
| 8 | 6109 | KAMBLE SHWETA VIKAS | P | P | P | P | P | P | P | P | 8 | P |
| 9 | 6110 | MALI AISHWARYA ABASO | P | P | P | P | P | P | P | P | P | P |
| 10 | 6111 | MOHITE PRITI SHANKAR | P | P | P | P | p | P | P | P | P | P |
| 11 | 6112 | PATIL PRASAD KAILAS | P | P | P | P | P | þ | P | P | P | P |
| 12 | 6113 | PATIL PRATIKSHA RAVSAHEB | P | P | P | P | P | Þ | P | P | P | P |
| 13 | 6114 | PATIL PREETI RAJENDRA | P | P | P | À | P | p | P | P | p | P |
| 14 | 6115 | PATIL RUPALI PARASHARAM | P | P | P | P | D | p | P | P | P | P |
| 15 | 6116 | PATIL SHIVANI AVINASH | P | P | P | P | P | P | 10 | P | P | P |
| 16 | 6117 | PAWAR SURBHI RAJENDRA | P | P | P | A | r | p. | P | P | P | P |
| 17 | 6118 | TAUR SHRADDHA KAILAS | P | P | 9 | P | P | A | P | P | P | P |
| 18 | 6119 | THORAT DIPTI LAXMAN | R | P | P | P | P | p | P | P | P | P |
| 19 | 5756 | MALI NIVEDITA GAJANAN | P | P | P | P | P | P | P | P | P | P |
| 20 | 5757 | MALI SAKSHI MILIND | P | ρ | P | P | P | P | P | P | P | P |
| 21 | 5758 | MANE PALLAVI APPASO | P | P | P | P | P | P | P | P | P | P |
| 22 | 5759 | MANE SAYALI SHAHAJI | P | P | P | P | P | P | P | P | 9 | P |
| 23 | 5760 | MANE SONALI SUDHAKAR | P | P | P | P | P | P | P | P | P | P |
| 24 | 5761 | MANE SWAPNALI PRAKASH | P | P | P | P | P | p | P | 8 | p | P |
| 25 | 5762 | MOHITE AISHWARYA VINOD | P | P | P | P | P | P | P | P | P | P |
| 26 | \$763 | MOHITE PRANALI ADHIKRAO | p | A | P | P | P | P | P | 8 | P | P |
| 27 | 5764 | MORE ADARSH POPAT | P | P | P | A | A | P | P | P | P | P. |
| 28 | 5765 | PARALE ASAWARI ADINATH | P | P | P | A | P | P | P | P | P | P |

| 29 | 5766 | PATHAN SWALIYA JAMIRKHAN | P | P | P | P | P | P | P | P | P | P. |
|----|------|---------------------------------|---|---|---|---|---|---|---|---|---|----|
| 30 | 5767 | PATIL AJAY SAMBHAJI | P | P | 9 | P | P | 8 | P | P | P | 1 |
| 31 | 5768 | PATIL AKSHADA SUNIL | P | P | 9 | P | P | P | P | P | P | P |
| 32 | 5769 | PATIL KISHOR RAOSAHEB | P | P | P | P | P | 8 | P | P | P | P |
| 33 | 5770 | PATIL KSHITIJA ASHOK | P | P | P | P | P | 8 | P | P | P | P |
| 34 | 5771 | PATIL NIKITA LAXMAN | P | P | P | P | P | 8 | P | P | P | P |
| 35 | 5772 | PATIL PANKAJ PRAKASH | P | P | P | p | P | P | 8 | P | R | P |
| 36 | 5773 | PATIL PRATIKSHA POPAT | P | P | P | P | P | P | 8 | 8 | P | P |
| 37 | 5774 | PATIL SACHIN BHAUSO | P | P | P | P | P | P | P | 8 | P | P |
| 38 | 5775 | PATIL SADHANA NANASAHEB | P | P | P | p | P | 9 | P | P | P | P |
| 39 | 5776 | PATIL SHUBHAM VINAYAK | P | P | P | P | P | P | P | P | 8 | P |
| 40 | 5777 | PATIL SNEHA MADHUKAR | A | P | P | p | P | P | 9 | P | P | P |
| 41 | 5778 | PATIL SNEHAL SANJAY | P | P | P | P | A | 8 | P | P | 0 | P |
| 42 | 5779 | PATIL SUJAY SURESH | P | P | P | P | P | P | P | P | P | P |
| 43 | 5780 | PATIL SWAPNALI ADHIK | P | P | P | 1 | P | 2 | P | P | P | P |
| 44 | 5781 | PATIL TEJAS GIRISH | Þ | ρ | A | Þ | P | P | P | P | P | P |
| 45 | 5782 | PATIL VAISHNAVI BHANUDAS | P | P | P | Þ | P | P | P | P | P | P |
| 46 | 5783 | PAWAR NIKHIL NANDKUMAR | P | P | P | P | Þ | Ð | P | P | P | P |
| 47 | 5784 | PAWAR PRATHAMESH CHANDRAKANT | P | P | P | P | P | P | P | P | P | P |
| 48 | 5785 | POTDAR ABHISHEK POPAT | P | A | P | P | P | P | 0 | P | P | P |
| 49 | 5786 | SALUNKHE PRANITA VISHNU | P | P | P | p | P | P | 8 | P | P | P |
| 50 | 5787 | SALUNKHE ROHIT RAMESH | P | P | P | P | P | P | 6 | 9 | a | P |
| 51 | 5788 | SAWANT SHIVANI RAMESH | P | ρ | P | P | P | P | 9 | P | 8 | r |
| 52 | 5789 | SHELAKE ANJALI ADHIKRAO | P | P | P | p | Þ | P | R | P | P | r |
| 53 | 5790 | SHENDAGE AUT RATARAM | P | P | P | P | P | P | 9 | P | P | 12 |
| 54 | 5791 | SHENDAGE PRATIKSHA SANJAY | Þ | P | P | A | p | P | 8 | P | P | P |
| 55 | 5792 | SHENDAGE SMITA SURESH | P | P | P | P | P | P | 8 | P | P | P |
| 36 | 5793 | SHINDE AKASH ANANDA | P | P | P | P | Þ | P | P | P | P | P |
| 57 | 5794 | SHINDE DIPTI MANIK | P | P | P | D | p | R | 8 | P | p | P |
| 58 | 5795 | SHINDE KASTURI NARAYAN | P | P | P | p | p | 8 | P | P | P | P |
| 59 | 5796 | SHINDE ROHIT CHANDRAKANT | P | P | P | p | P | 9 | P | P | P | P |
| 60 | 5797 | SHINDE SAVALI SANIAV | A | P | P | P | P | P | 0 | P | P | P |
| 61 | 5798 | SHINDE SHUBHADA VASANT | P | P | P | P | P | P | P | P | P | 10 |
| 62 | 5799 | SHINDE SHUBHAM DHANAJI | P | P | P | p | p | P | P | P | P | P |
| 63 | 5800 | THORAT APURVA BALASO | Þ | P | P | P | P | P | 8 | P | P | P |
| 64 | 5801 | THORWAT ANIKET SANJAY | P | P | D | A | P | P | P | P | P | P |

| 65 | 5802 | UMRANI POOJA PRADHAN | P | P | P | P | 8 | P | P | P | P | P |
|-----|-------|------------------------------------|---|-----|---|---|----|----|----|---|---|---|
| 66 | 5803 | WAGH KULDEEP SHIDU | P | A | P | Þ | P | 8 | 8 | 8 | P | P |
| 67 | 5804 | YADAV VARADRAJ ASHOK | P | P | P | p | P | P | P | P | P | P |
| 68 | 5805 | YAMGAR SHWETA MAHADEV | P | P | P | p | P | P | R | P | P | P |
| 69. | 5806 | YEDAGE SAMBHAJI DASHRATH | P | P | P | P | P | 8 | P | 8 | 8 | P |
| 70 | 5807 | ZAMBRE SHRADDHA SAYAJI | P | P | 8 | P | P | P | P | P | P | P |
| 71 | 5904 | MOHITE PRATIK BHARAT | p | P | P | P | .p | P | P | P | P | P |
| 72 | 5905 | PATIL TEJASHRI SURESH | P | P | P | Þ | þ | 8 | P | P | P | e |
| 73 | 5906 | JADHAV SUDIKSHA DINESH | p | P | 0 | p | P | 8 | P | P | P | P |
| 74 | 5909 | KAVATHEKAR ADITI SUDHAKAR | P | P | P | b | D | 0 | 8 | 0 | 0 | P |
| 75 | 5001 | BABAR SARIKA GANPATI | P | 0 | P | b | P | P | R | P | 0 | p |
| 26 | 5002 | BHOSALE DNYANESHWARI | D | 0 | 0 | P | D | P | P | 0 | 1 | p |
| 27 | 8003 | PARAMANAND BHOSALE PALLAVEDILIP | 0 | T O | 6 | n | r | P | P | P | 5 | 0 |
| 7.8 | \$004 | CHAVAN PRATHMESH POPAT | D | 1 C | P | H | P | 6 | P | 0 | 0 | p |
| 70 | 5005 | CHAVAN YASHWANT SANJAY | 0 | 0 | P | p | T. | P | p | P | 0 | 0 |
| 80 | 5006 | CHOUGULE NIKITA NAMDEV | D | F | 0 | P | P | P | P | P | 0 | P |
| 81 | \$007 | DAGADE TEJASHRI ADHIKARAO | P | - B | K | b | P | 1 | D | P | 0 | P |
| 82 | 5008 | DEVKULE NIKITA NISHIKANT | P | P | P | b | P | P | 8 | P | P | P |
| 83 | \$009 | EDAKE POOJA TUKARAM | P | P | P | P | A | P | P | P | P | 0 |
| 84 | 5010 | GADVIR MANALI DIPAK | D | D | 2 | b | P | P | \$ | P | 9 | P |
| 85 | 5011 | GAIKWAD NIKHIL SHANKAR | A | p | P | Þ | P | P | P | P | P | 8 |
| 86 | 5012 | GHORAPADE SAKSHI BALASO | P | P | P | p | D | P | P | P | 8 | P |
| 87 | 5013 | GOSAVI DEEPAK MANIK | P | P | P | D | P | P | P | P | P | P |
| 88 | 5014 | GURAV JYOTI UTTAM | P | P | A | A | P | P | P | P | P | P |
| 89 | 5015 | JADHAV RATNADIP SANJAY | P | P | P | P | P | 8 | P | P | P | P |
| 90 | 5016 | JADHAV SNEHAL SADANAND | P | P | P | þ | P. | P | P | P | P | P |
| 91 | 5017 | JADHAV SUSHAMA SAHEBRAV | P | P | P | P | P | 8 | P | P | P | P |
| 92 | 5018 | KAMBLE HARSH DILIP | P | P | P | P | P | 9 | P | P | P | R |
| 93 | 5019 | KHARMATE JYOTI DIPAK | P | P | P | P | P | -8 | P | P | P | P |
| 94 | 5020 | KOLI PRATHAMESH SANJAY | P | P | P | p | P | P | P | P | P | P |
| 95 | 5021 | LANDAGE ABHIJEET ANNASO | P | P | 8 | P | P | P | P | P | P | P |
| 95 | 5022 | LOKHANDE TRUPTI RAJENDRA | Þ | P | P | P | P | P | P | P | P | P |
| 96 | 5023 | MAINKAR DHANASHREE DATTATRAY | P | P | P | P | P | 8 | P | P | P | P |
| 97 | 5024 | MALI ASHWINI SHIVAJI | P | P | P | P | P | 9 | P | P | P | P |
| 98 | 5025 | MANE NIKITA SHARAD | p | P | P | P | P | P | P | P | P | P |
| 99 | 5026 | MANE SANGRAM BHIMRAO | P | P | P | P | P | P | P | P | P | P |
| 100 | 5027 | MANE SHUBHAM NETAJI | P | P | P | P | P | 8 | P | P | P | P |
| 101 | 5028 | MORE ARPITA VISHWAS | P | P. | P | P | PI | P | P | P | P | P |

| 102 | 5029 | PATIL NIKITA SANJAY | P | P | 8 | P | P | 18 | Q | P | P | P |
|------|-------|-------------------------------------|---|---|---|---|---|----|---|---|---|----|
| 103 | 5030 | PATIL PANKAJ ARUN | P | A | 9 | Þ | P | P | 8 | P | 8 | 8 |
| 104 | 5031 | PATIL PRACHI AVADHUT | P | P | P | P | P | P | P | P | P | R |
| 105 | 5032 | PATIL PRADNYA ANANDRAO | P | P | 8 | P | P | P | R | P | P | P |
| 106 | 5033 | PATIL PRAJAKTA MAHADEV | P | P | P | P | P | P | 8 | P | 8 | p. |
| 107 | 5034 | PATIL PRANALI SANJAY | P | P | P | Þ | r | P | P | P | 8 | P |
| 108 | 5035 | PATIL ROHAN BALASAHEB | P | P | 8 | P | P | P | R | 0 | P | P |
| 109 | 5038 | RANKHAMBE HARSHVARDHAN SHRIRANG | P | P | P | P | P | P | P | P | P | P |
| 110 | 5040 | SAYYAD TASNIM RIYAJ | A | P | P | P | A | P | 8 | P | P | P |
| III | 5041 | SHINDE HARSHADA DHANAJI | P | P | P | p | F | 8 | P | P | P | P |
| 112 | 5042 | SHINDE PRATIKSHA RAJENDRA | P | P | A | P | P | P | P | P | P | p |
| 113 | 5043 | SHINDE RUTUJA DILIP | P | P | P | P | P | P | 8 | P | P | P |
| 114 | 5044 | SURYAWANSHI HAREKRUSHNA DNYANDEV | P | P | P | A | P | 8 | 8 | P | P | P |
| 115 | 5045 | SURYAWANSHI SANDHYA BHARAT | P | ρ | P | P | P | P | P | P | P | P |
| 116 | 5046 | TAKALE MAYURI SUNIL | P | P | 8 | P | P | P | 8 | P | P | P |
| 117 | 5047 | VIBHUTE AKANKSHA SANTOSH | P | P | P | P | P | P | P | P | P | P |
| 118 | 5048 | WAGH AKANKSHA DHONDIRAM | P | P | P | p | P | P | P | P | P | P |
| 119 | 5191 | CHAVAN VISHWAJEET KRUSHNARAO | P | P | P | P | P | P | P | P | P | P |
| 120 | 5192 | DHISALE ANIKET SANJAY | P | P | P | P | P | P | R | P | P | P |
| 121 | 5193 | EDAKE RUTUJA JAGANNATH | ρ | P | P | p | p | P | P | P | P | P |
| 122 | 5195 | JADHAV ANJALI MACHINDRA | P | P | P | p | P | C | P | p | P | P |
| 123 | \$196 | JADHAV APARNA RAMDAS | P | P | P | P | P | P | P | P | P | P |
| 124 | 5197 | JADHAV HARSHADA MAHADEV | P | P | P | P | D | P | P | P | P | P |
| 1.25 | 5199 | JADHAV SOMNATH SUBHASH | P | P | P | P | P | P | P | P | P | P |
| 126 | 5200 | JAMADADE VAISHNAVI HARISHCHANDRA | P | P | P | Þ | P | P | P | P | P | p |
| 127 | 5201 | KADAM ABHIJEET MANIK | P | P | P | P | Þ | P. | P | p | P | P |

En inter a file O

"Dissemination of Education through Knowledge, Science and Culture" -Shikshanmaharshi Dr. BapujiSalunkhe Shri Swami VivekanandShikshanSanstha's, Kolhapur

> Padmbhushan Dr. VasantraodadaPatilMahavidyala, Tasgaon, Certificate course on" SERICULTURE"

Department of Zoology

Notice

22/03 /2021

All the B.Sc. III students of Zoology department are hereby informed that the exam on "Sericulture Certificate Course "will be held on 24/03/2021. The attendance should be compulsory.

Head of Department

Prof. (Dr.) S.A.Khabade)

HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN DR. VASANTRAD DADA , ATN MAHAVIDYALAVAL TASGADAL DIST. SANGLI "Dissemination of Education through Knowledge, Science and Culture" -Shikshanmaharshi Dr. BapujiSalunkhe Shri Swami VivekanandShikshanSanstha's, Kolhapur

Padmbhushan Dr. Vasantraodada Patil Mahavidyala, Tasgaon. Certificate course on" SERICULTURE"

Department of Zoology

Date- 24/03/2021

Total mark-50

| Note- Answer all | the questions | | |
|----------------------|--------------------------|---|--------------------------|
| Each question car | ries 2 marks | | |
| Q.1) Multiple cl | hoice question | | Marks 10 |
| 1. This species pr | oduces silk of the super | rior quality. | Marks 10. |
| a) Attacus atlas | b) Bombyx mori | c) Attacus ricini d) Anthemer according | |
| 2. Silk is produce | d by | | d) Antheraea assamensis |
| a) Cocoon | b) adult moth | c) larva | d) large and a bate of a |
| 3) What is the life | span of an adult ' Bom | byx mori' | d) have and adult moth |
| a) 2days | b) 3-4 days | c) 6 days | d) 8daya |
| 4) Silk contains a j | protein known as | | d) oddys |
| a) casein | b) fibroin | c)sericin | c)sericin d) both barry |
| 5) Which of the fol | lowing varieties of silk | is not produced in India | d) both b and c |
| a) Muga silk | b) Tassar silk | c) Mulberry silk | d) American silk |

Q.2)Attempt any one of the following.

Marks-20

1. Explain the silkworm life history with neat diagram?

2. Write various steps for processing fibres into wool?

Q.3) Attempt any two of the following.

1. Write the economics of egg production?

2. Write the systematic position of silkworm?

3. Write about hatching and brushing?

4. Types of silk wastes?

Marks-20

50 Serl Mali Aishwanya Abaso B.Sc III Date - 24/3/2021 9,1 This species produces silk of the superior quality Bamby X Mori 2. silk is produced by 3. What is the life span of an adult "Bombyx mori-7 3 to hday 4. silk contains a protein known as _____ 40 5. Which of the following varieties of silk in bot produced in Andid. American sulk. Explain the silk corres of life history with neat diagram 2. 9.2 The life eycle of sille moth shorts when a female silk moth lays eggs, the caterpillar or lorvue are hatched from the eggs of the silk moth. The sulkworms fixed on mulberry leaves & give sile to pupper. After that it swings it head

silk is a type of natural libre or animal Rbre. sulkworm is responsible for spinning of sille & it is reared to obtach silks

History of silk ?sille was discovered around 3000 Bc in chind. For a long period of time, sille was shipped to other parts of the world through trade. Tech pological advancement (• new developments have endbled manufactures to produce different types of salk, from differ. silleworms on the basir of lyster & texture mulberry silk is the mast common silic moth that is used for producing silk. Reacting of the silk worms in known as sonculture

The life cycle of silkworm!

The life cycle of silk moth starts when a female silk moth lays leggs, the caterpillar or larvae are hatched from the eggs of the salk moth the salk-worms field on pulbering fleures & give a weave is netted around by the silleworm to held itself, poter that the swings its head spinning gifibre several caterpillors from a protective layer mound puper & this corribing is knows as the cocoon.
102 catorpillar Land une, 00 cocoon. egg Adult moth Stuge -1 Egg An egg is the first stage of the life. ayche of the silleworm, the egg is build by a semale moth which is mostly the size of small doto. A temale moth lays more the 300 cggs at those . In the sprigtime the eggs hutch me to the works "In the dir. This

This productione happens once in every yeur. Stuge 2: Silworm A having "Sillicomm ander the eggs made. In this stage of sulkworm S. the growth happenr. they teed as mulberry lasser & consume a dange amount of there leaves for around 30 days before going to the next shipe Sheye 3 Cocoon The this styc. Sillworms sph a protective cocoop around Uself. It is the size of g small cotton ball & it make of a songle thouad of selle shipe h' pupa The pupa strye is a moto inters stage in this stury people Will the pipe by phinging the coccoss tobe bolling water & unwind the sille thread.

103 Shipe 5 moth The this strate, the pupe changes to be an adult noth. The female noth ways eggs after making & thus the life cycle of sulknown begings agach 1 Processing of silk] Exhacting splk from the cocoon is knows as the molessing of still sille is separated from the co coon by exposing it to sunligh: After the reeling of sille & dore, the process of unwinding sille from a locoon takes place sulle from a cocoon takes place sulk thread is then bleached the sulle libre to then spun onto sMK threads. 20-

93 writte the economic of egg production. The incremental head in the share of Brudkine splic production in Dudig is a velocom change to reduce dependency an drinest Balle yours imports besides dereporment at him bured ninel enterprise bured as stutient and day lond firming practices i the county. Technology Involved Silk, worm eggs on procured of to so loo human coverny bo- 400 acure of multing. optimum tenp, matched the q CRC 10 27-28 & with relative humidity or so- godi usay an coder or and continuons Annual coast Amoly Provaline purbiculan nulberry 33,3000 coast of made polo 1,70000 districture Apporibured 7900 10,000 coust miscellaneou a for milling potul coast a F 20,797-0 grouder Silf woms

106 Dypes of silk waster? > Silk wuste includes all kinds of The sull which may be unwindable, & therefore unsuited to the throwing process. before the modult of mathinery appliedble to the spinning of sulle waste, the schuse from cocoon reeling & aslo from silk winding, which is now used in producting spun silic compling which to now used my metuching spin side horosis was nearly all destooyed as being usches with the exception of that which could be hand- combed & spin by means of the distate & spinning wheel a menthed which is shill prechised by some of the Bedsimp on Andre Sources The supply of wask sulk is

drewn han the following somes

- The silknooms, when commencing to spin emits a dull, Justarless & uneven thread with which it suppends goself how the tuings & leaves of the the upon which It has been fredings or the stran provided for N by attendants. in the worms reaming establishment this high threed is unrelable this bost thread To unrelable, & more over, is often. mixed with stores, leaver & horing - piercel cocoast that is. those thon which the moth of the sellecom has emerger and damaged coccorry - buring the process of seeling the from the cocuon the SMK often baculy & both in fonding a have & redithe thend figh Joshy the ends Here Is imavoidable culte

Zoology Certificate Course In Zoology 2020-21

Exam Attendance For Certificate cource in "Sericulture"

| Sr.No | Roll No. | Name of The Students | Signature |
|-------|-------------|----------------------------|--------------|
| 1 | 6101 | BODAKE SAKSHI SHANKAR | Badatess |
| 2 | 6103 | ERANDOLE SHUBHANGI MAHADEV | E.S.M. |
| 3 | 6104 | GHAGARE KOMAL BHAIRU | KR. Chagere |
| 4 | 6105 | JADHAV GOURI RAGHUNATH | Frante |
| 5 | 6106 | JADHAV SUHAS SHIVAJI | S.S. Jodbar |
| 6 | 6107 | JAMADADE MAYURI VISHNU | Jamochdo |
| 7 | 6108 | KAMBLE PRACHI VIJAY | PNKambb |
| 8 | 6109 | KAMBLE SHWETA VIKAS | Sv tomble |
| 9 | 6110 | MALI AISHWARYA ABASO | Damal |
| 10 | 6111 | MOHITE PRITI SHANKAR | Papantas |
| 11 | 6112 | PATIL PRASAD KAILAS | Ppaltl |
| 12 | 6113 | PATIL PRATIKSHA RAVSAHEB | P.P. Pabil |
| 13 | 6114 | PATIL PREETI RAJENDRA | p.p. Larenay |
| 14 | 6115 | PATIL RUPALI PARASHARAM | party. |
| 15 | 6116 | PATIL SHIVANI AVINASH | ARHII |
| 16 | 6117 | PAWAR SURBHI RAJENDRA | SRPauraz |
| 17 | 6118 | TAUR SHRADDHA KAILAS | Tay. |
| 18 | 6119 | THORAT DIPTI LAXMAN | alph . |
| 19 | 5756 | MALI NIVEDITA GAJANAN | (M.a.Mati) |
| 20 | 5757 | MALI SAKSHI MILIND | maye. |
| 21 | 5758 | MANE PALLAVI APPASO | P.A. Mane_ |
| 22 | 5759 | MANE SAYALI SHAHAJI | |
| 23 | 5760 | MANE SONALI SUDHAKAR | S.D. Mone |
| 24 | 5761 | MANE SWAPNALI PRAKASH | -mans. |
| 25 | 5762 | MOHITE AISHWARYA VINOD | m.Ag. |
| 26 | 5763 | MOHITE PRANALI ADHIKRAO | p.A. mohitg. |
| 27 | 5764 | MORE ADARSH POPAT | Marcal |
| 28 | 5765 | PARALE ASAWARI ADINATH | pount. |

| 29 | 5766 | PATHAN SWALIYA JAMIRKHAN | P.S.Jamiskhan. |
|----|------|------------------------------|----------------|
| 30 | 5767 | PATIL AJAY SAMBHAJI | A.S. parts. |
| 31 | 5768 | PATIL AKSHADA SUNIL | Alishy . |
| 32 | 5769 | PATIL KISHOR RAOSAHEB | littles patt - |
| 33 | 5770 | PATIL KSHITIJA ASHOK | 45141410. |
| 34 | 5771 | PATIL NIKITA LAXMAN | patil. |
| 35 | 5772 | PATIL PANKAJ PRAKASH | Pankey - |
| 36 | 5773 | PATIL PRATIKSHA POPAT | pratiliste. |
| 37 | 5774 | PATIL SACHIN BHAUSO | sachty. |
| 38 | 5775 | PATIL SADHANA NANASAHEB | patil, |
| 39 | 5776 | PATIL SHUBHAM VINAYAK | S.V. Patil |
| 40 | 5777 | PATIL SNEHA MADHUKAR | parte. |
| 41 | 5778 | PATIL SNEHAL SANJAY | SS Patil |
| 42 | 5779 | PATIL SUJAY SURESH | pate. |
| 43 | 5780 | PATIL SWAPNALI ADHIK | paty. |
| 44 | 5781 | PATIL TEJAS GIRISH | T. Gepatil . |
| 45 | 5782 | PATIL VAISHNAVI BHANUDAS | V. R. Postil |
| 46 | 5783 | PAWAR NIKHIL NANDKUMAR | Dange : |
| 47 | 5784 | PAWAR PRATHAMESH CHANDRAKANT | Poc. pawal |
| 48 | 5785 | POTDAR ABHISHEK POPAT | Potdae |
| 49 | 5786 | SALUNKHE PRANITA VISHNU | sallinkke. |
| 50 | 5787 | SALUNKHE ROHIT RAMESH | Resalimer. |
| 51 | 5788 | SAWANT SHIVANI RAMESH | S. R. Southeat |
| 52 | 5789 | SHELAKE ANJALI ADHIKRAO | AD. Sheake, |
| 53 | 5790 | SHENDAGE AJIT RAJARAM | AR Shiendage. |
| 54 | 5791 | SHENDAGE PRATIKSHA SANJAY | . shendage |
| 55 | 5792 | SHENDAGE SMITA SURESH | æ |
| 56 | 5793 | SHINDE AKASH ANANDA | A. A childe |
| 57 | 5794 | SHINDE DIPTI MANIK | D.M. Shindp |
| 58 | 5795 | SHINDE KASTURI NARAYAN | Shende ~ |
| 59 | 5796 | SHINDE ROHIT CHANDRAKANT | R Certifiels |
| 60 | 5797 | SHINDE SAYALI SANJAY | shinde. |
| 61 | 5798 | SHINDE SHUBHADA VASANT | 5.5.12 |
| 62 | 5799 | SHINDE SHUBHAM DHANAJI | shubbar . |
| 63 | 5800 | THORAT APURVA BALASO | Theal. |
| 64 | 5801 | THORWAT ANIKET SANJAY | Thoreval |

| 65 | 5802 | UMRANI POOJA PRADHAN | Hallags. |
|-----|------|---------------------------------|----------------|
| 66 | 5803 | WAGH KULDEEP SHIDU | hell 1 |
| 67 | 5804 | YADAV VARADRAJ ASHOK | taday , |
| 68 | 5805 | YAMGAR SHWETA MAHADEV | Yin hard . |
| 69 | 5806 | YEDAGE SAMBHAJI DASHRATH | tedy R . |
| 70 | 5807 | ZAMBRE SHRADDHA SAYAJI | Bamber |
| 71 | 5904 | MOHITE PRATIK BHARAT | biohtte - |
| 72 | 5905 | PATIL TEJASHRI SURESH | TRadit. |
| 73 | 5906 | JADHAV SUDIKSHA DINESH | lally. |
| 74 | 5909 | KAVATHEKAR ADITI SUDHAKAR | kant theka. |
| 75 | 5001 | BABAR SARIKA GANPATI | 8.5 · (H) |
| 76 | 5002 | BHOSALE DNYANESHWARI PARAMANAND | aboreal ? - |
| 77 | 5003 | BHOSALE PALLAVI DILIP | DDR . |
| 78 | 5004 | CHAVAN PRATHMESH POPAT | E. |
| 79 | 5005 | CHAVAN YASHWANT SANJAY | chancere. |
| 80 | 5006 | CHOUGULE NIKITA NAMDEV | Hiktle . |
| 81 | 5007 | DAGADE TEJASHRI ADHIKARAO | TBOORde |
| 82 | 5008 | DEVKULE NIKITA NISHIKANT | - June |
| 83 | 5009 | EDAKE POOJA TUKARAM | EDOKA ~ |
| 84 | 5010 | GADVIR MANALI DIPAK | CHEVY. |
| 85 | 5011 | GAIKWAD NIKHIL SHANKAR | thikhul |
| 86 | 5012 | GHORAPADE SAKSHI BALASO | Chanapack. |
| 87 | 5013 | GOSAVI DEEPAK MANIK | p.m. wesally |
| 88 | 5014 | GURAV JYOTI UTTAM | Gener . |
| 89 | 5015 | JADHAV RATNADIP SANJAY | R.SJadher. |
| 90 | 5016 | JADHAV SNEHAL SADANAND | Stadhary |
| 91 | 5017 | JADHAV SUSHAMA SAHEBRAV | 5-5. Jaily - |
| 92 | 5018 | KAMBLE HARSH DILIP | the. |
| 93 | 5019 | KHARMATE JYOTI DIPAK | · Stope |
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| 95 | 5021 | LANDAGE ABHIJEET ANNASO | Alandose |
| 95 | 5022 | LOKHANDE TRUPTI RAJENDRA | T. R. Lottamle |
| 96 | 5023 | MAINKAR DHANASHREE DATTATRAY | matrinut |
| 97 | 5024 | MALI ASHWINI SHIVAJI | arrelt |
| 98 | 5025 | MANE NIKITA SHARAD | WIKILEY . |
| 99 | 5026 | MANE SANGRAM BHIMRAO | S.B. Mare |
| 100 | 5027 | MANE SHUBHAM NETAJI | Shame. |
| 101 | 5028 | MORE ARPITA VISHWAS | make. |

| 102 | 5029 | PATIL NIKITA SANJAY | (NPeiti |
|-----|------|-------------------------------------|-------------|
| 103 | 5030 | PATIL PANKAJ ARUN | PALLA |
| 104 | 5031 | PATIL PRACHI AVADHUT | Cleve |
| 105 | 5032 | PATIL PRADNYA ANANDRAO | P.P. Anonda |
| 106 | 5033 | PATIL PRAJAKTA MAHADEV | patto . |
| 107 | 5034 | PATIL PRANALI SANJAY | |
| 108 | 5035 | PATIL ROHAN BALASAHEB | Bonkhamb> |
| 109 | 5038 | RANKHAMBE HARSHVARDHAN SHRIRANG | Hune |
| 110 | 5040 | SAYYAD TASNIM RIYAJ | |
| 111 | 5041 | SHINDE HARSHADA DHANAJI | _S.H. D_ |
| 112 | 5042 | SHINDE PRATIKSHA RAJENDRA | 3.P.R |
| 113 | 5043 | SHINDE RUTUJA DILIP | RSD . |
| 114 | 5044 | SURYAWANSHI HAREKRUSHNA DNYANDEV | Deele . |
| 115 | 5045 | SURYAWANSHI SANDHYA BHARAT | 5.5.B |
| 116 | 5046 | TAKALE MAYURI SUNIL | masure |
| 117 | 5047 | VIBHUTE AKANKSHA SANTOSH | wouthe |
| 118 | 5048 | WAGH AKANKSHA DHONDIRAM | |
| 119 | 5191 | CHAVAN VISHWAJEET KRUSHNARAO | Queste. |
| 120 | 5192 | DHISALE ANIKET SANJAY | |
| 121 | 5193 | EDAKE RUTUJA JAGANNATH | Plake . |
| 122 | 5195 | JADHAV ANJALI MACHINDRA | solling. |
| 123 | 5196 | JADHAV APARNA RAMDAS | PRANES. |
| 124 | 5197 | JADHAV HARSHADA MAHADEV | |
| 125 | 5199 | JADHAV SOMNATH SUBHASH | SS Jadhov |
| 126 | 5200 | JAMADADE VAISHNAVI HARISHCHANDRA | Jondade- |
| 127 | 5201 | KADAM ABHIJEET MANIK | locaetand, |

Sizain 2

HEAD DEPARTMENT OF ZOOLOGY, PADMASHUSHAN OR, VASANTBAD DADA JATI MAHAVIDYALAYA, TASBADN, DIST, SANGU "Dissemination of Education through Knowledge, Science and Culture" Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami VivekanandShikshanSanstha's, Kolhapur

Padmbhushan Dr. Vasantraodada Patil Mahavidyala, Tasgaon, Dist- Sangli. DEPARTMENT OF ZOOLOGY

Zoology Certificate Course 2020-21

MARK LIST FOR CERTIFICATE COURSE IN "SERICULTURE"

| Sr.No | Roll No. | Name of The Students | Marks |
|-------|----------|----------------------------|-------|
| 1 | 6101 | BODAKE SAKSHI SHANKAR | 4.8 |
| 2 | 6103 | ERANDOLE SHUBHANGI MAHADEV | 48 |
| 3 | 6104 | GHAGARE KOMAL BHAIRU | 69 |
| 4 | 6105 | JADHAV GOURI RAGHUNATH | 68 |
| 5 | 6106 | JADHAV SUHAS SHIVAJI | 67 |
| 6 | 6107 | JAMADADE MAYURI VISHNU | 45 |
| 7 | 6108 | KAMBLE PRACHI VIJAY | 68 |
| 8 | 6109 | KAMBLE SHWETA VIKAS | 68 |
| 9 | 6110 | MALI AISHWARYA ABASO | 49 |
| 10 | 6111 | MOHITE PRITI SHANKAR | 45 |
| 11 | 6112 | PATIL PRASAD KAILAS | 68 |
| 12 | 6113 | PATIL PRATIKSHA RAVSAHEB | 67 |
| 13 | 6114 | PATIL PREETI RAJENDRA | 1.7 |
| 14 | 6115 | PATIL RUPALI PARASHARAM | 45 |
| 15 | 6116 | PATIL SHIVANI AVINASH | 46 |
| 16 | 6117 | PAWAR SURBHI RAJENDRA | 47 |
| 17 | 6118 | TAUR SHRADDHA KAILAS | 48 |
| 18 | 6119 | THORAT DIPTI LAXMAN | 68 |
| 19 | 5756 | MALI NIVEDITA GAJANAN | 48 |
| 20 | 5757 | MALI SAKSHI MILIND | 48 |
| 21 | 5758 | MANE PALLAVI APPASO | 67 |
| 22 | 5759 | MANE SAYALI SHAHAJI | 67 |
| 23 | 5760 | MANE SONALI SUDHAKAR | 67 |
| 24 | 5761 | MANE SWAPNALI PRAKASH | 45 |
| 25 | 5762 | MOHITE AISHWARYA VINOD | 45 |

| 26 | 5763 | MOHITE PRANALI ADHIKRAO | 48 |
|----|------|------------------------------|----|
| 27 | 5764 | MORE ADARSH POPAT | 67 |
| 28 | 5765 | PARALE ASAWARI ADINATH | 67 |
| 29 | 5766 | PATHAN SWALIYA JAMIRKHAN | 67 |
| 30 | 5767 | PATIL AJAY SAMBHAJI | 67 |
| 31 | 5768 | PATIL AKSHADA SUNIL | 48 |
| 32 | 5769 | PATIL KISHOR RAOSAHEB | 68 |
| 33 | 5770 | PATIL KSHITIJA ASHOK | 49 |
| 34 | 5771 | PATIL NIKITA LAXMAN | 48 |
| 35 | 5772 | PATIL PANKAJ PRAKASH | 45 |
| 36 | 5773 | PATIL PRATIKSHA POPAT | 47 |
| 37 | 5774 | PATIL SACHIN BHAUSO | 48 |
| 38 | 5775 | PATIL SADHANA NANASAHEB | 68 |
| 39 | 5776 | PATIL SHUBHAM VINAYAK | 48 |
| 40 | 5777 | PATIL SNEHA MADHUKAR | 47 |
| 41 | 5778 | PATIL SNEHAL SANJAY | 48 |
| 42 | 5779 | PATIL SUJAY SURESH | 68 |
| 43 | 5780 | PATIL SWAPNALI ADHIK | 67 |
| 44 | 5781 | PATIL TEJAS GIRISH | 47 |
| 45 | 5782 | PATIL VAISHNAVI BHANUDAS | 48 |
| 46 | 5783 | PAWAR NIKHIL NANDKUMAR | 48 |
| 47 | 5784 | PAWAR PRATHAMESH CHANDRAKANT | 48 |
| 48 | 5785 | POTDAR ABHISHEK POPAT | 48 |
| 49 | 5786 | SALUNKHE PRANITA VISHNU | 48 |
| 50 | 5787 | SALUNKHE ROHIT RAMESH | 48 |
| 51 | 5788 | SAWANT SHIVANI RAMESH | 47 |
| 52 | 5789 | SHELAKE ANJALI ADHIKRAO | 47 |
| 53 | 5790 | SHENDAGE AJIT RAJARAM | 48 |
| 54 | 5791 | SHENDAGE PRATIKSHA SANJAY | 48 |
| 55 | 5792 | SHENDAGE SMITA SURESH | 48 |
| 56 | 5793 | SHINDE AKASH ANANDA | 67 |
| 57 | 5794 | SHINDE DIPTI MANIK | 45 |
| 58 | 5795 | SHINDE KASTURI NARAYAN | 45 |
| 59 | 5796 | SHINDE ROHIT CHANDRAKANT | 68 |
| 60 | 5797 | SHINDE SAYALI SANJAY | 47 |
| 61 | 5798 | SHINDE SHUBHADA VASANT | 45 |

| 62 | 5799 | SHINDE SHUBHAM DHANAJI | 15 |
|------|------|---------------------------------|-----|
| 63 | 5800 | THORAT APURVA BALASO | 45 |
| 64 | 5801 | THORWAT ANIKET SANJAY | 45 |
| 65 | 5802 | UMRANI POOJA PRADHAN | 59 |
| 66 | 5803 | WAGH KULDEEP SHIDU | 49 |
| 67 | 5804 | YADAV VARADRALASHOK | 45 |
| 68 | 5805 | YAMGAR SHWETA MAHADEV | 45 |
| 69 | 5806 | YEDAGE SAMBHAILDASHBATH | 45 |
| 70 | 5807 | ZAMBRE SHRADDHA SAVAH | 47 |
| 71 | 5904 | MOHITE PRATIK DUABAT | 48 |
| 72 | 5005 | DATH TELASUBLEUDESU | 48 |
| 73 | 5905 | PATIL TEJASHRI SURESH | 48 |
| 13 | 5906 | JADHAV SUDIKSHA DINESH | 45 |
| 74 | 5909 | KAVATHEKAR ADITI SUDHAKAR | 45 |
| 7.5 | 5001 | BABAR SARIKA GANPATI | 45 |
| 76 | 5002 | BHOSALE DNYANESHWARI PARAMANAND | 45 |
| 77 | 5003 | BHOSALE PALLAVI DILIP | 67 |
| 78 | 5004 | CHAVAN PRATHMESH POPAT | 47 |
| 79 | 5005 | CHAVAN YASHWANT SANJAY | 67 |
| 80 | 5006 | CHOUGULE NIKITA NAMDEV | 47 |
| 81 | 5007 | DAGADE TEJASHRI ADHIKARAO | 48 |
| 82 | 5008 | DEVKULE NIKITA NISHIKANT | 68 |
| 83 | 5009 | EDAKE POOJA TUKARAM | 48 |
| 84 | 5010 | GADVIR MANALI DIPAK | 65 |
| 85 | 5011 | GAIKWAD NIKHIL SHANKAR | 67 |
| 86 | 5012 | GHORAPADE SAKSHI BALASO | 66 |
| 87 | 5013 | GOSAVI DEEPAK MANIK | 66 |
| .88 | 5014 | GURAV JYOTI UTTAM | 65 |
| 89 | 5015 | JADHAV RATNADIP SANJAY | 66 |
| , 90 | 5016 | JADHAV SNEHAL SADANAND | 48 |
| 97 | 5017 | JADHAV SUSHAMA SAHEBRAV | 44 |
| 92 | 5018 | KAMBLE HARSH DILIP | 45 |
| 93 | 5019 | KHARMATE JYOTI DIPAK | 48 |
| 94 | 5020 | KOLI PRATHAMESH SANJAY | 43 |
| 95 | 5021 | LANDAGE ABHIJEET ANNASO | 15 |
| 95 | 5022 | LOKHANDE TRUPTI RAJENDRA | 1.3 |
| 96 | 5023 | MAINKAR DHANASHREE DATTATRAY | 66 |
| 97 | 5024 | MALI ASHWINI SHIVAJI | 45 |
| 98 | 5025 | MANE NIKITA SHARAD | 45 |

Bulantas

HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN OR, VASANTHAD DADA WITH MAMANIDVALAYA, TASGADH, DISL SANGU

| 99 | 5026 | MANE SANGRAM BHIMRAO | 1 |
|------|------|----------------------------------|---|
| 100 | 5027 | MANE SHUBHAM NETAJI | |
| 101 | 5028 | MORE ARPITA VISHWAS | |
| 102 | 5029 | PATIL NIKITA SANJAY | |
| 103 | 5030 | PATIL PANKAJ ARUN | |
| 104 | 5031 | PATIL PRACHI AVADHUT | |
| 105 | 5032 | PATIL PRADNYA ANANDRAO | |
| 106 | 5033 | PATIL PRAJAKTA MAHADEV | |
| 107 | 5034 | PATIL PRANALI SANJAY | |
| 108 | 5035 | PATIL ROHAN BALASAHEB | |
| 109 | 5038 | RANKHAMBE HARSHVARDHAN SHRIRANG | |
| 110 | 5040 | SAYYAD TASNIM RIYAJ | |
| 111 | 5041 | SHINDE HARSHADA DHANAJI | |
| 112 | 5042 | SHINDE PRATIKSHA RAJENDRA | |
| 1.13 | 5043 | SHINDE RUTUJA DILIP | |
| 114 | 5044 | SURYAWANSHI HAREKRUSHNA DNYANDEV | |
| 115 | 5045 | SURYAWANSHI SANDHYA BHARAT | |
| 116 | 5046 | TAKALE MAYURI SUNIL | |
| 117 | 5047 | VIBHUTE AKANKSHA SANTOSH | |
| 118 | 5048 | WAGH AKANKSHA DHONDIRAM | |
| 119 | 5191 | CHAVAN VISHWAJEET KRUSHNARAO | |
| 120 | 5192 | DHISALE ANIKET SANJAY | |
| 121 | 5193 | EDAKE RUTUJA JAGANNATH | |
| 122 | 5195 | JADHAV ANJALI MACHINDRA | |
| 123 | 5196 | JADHAV APARNA RAMDAS | |
| 124 | 5197 | JADHAV HARSHADA MAHADEV | |
| 125 | 5199 | JADHAV SOMNATH SUBHASH | |
| 126 | 5200 | JAMADADE VAISHNAVI HARISHCHANDRA | |
| 127 | 5201 | KADAM ABHIJEET MANIK | |

A REPORT ON MULBERRY PLANTATION A" GREEN PRACTICE"

AT COLLEGE CAMPUS

Mulberry (*Morus* spp.) is being exploited by sericulture, pharmaceutical, cosmetic, food and beverage industries.

• It is regarded as a unique plant on earth due to its positive impact in environmental safety approach.

• It relieves Mother Nature from all ecological disturbances and hence appropriate to call it as most suitable plant in providing a sustainable environment for future generations.

Mulberry (*Morus* spp.) of Moraceae family is regarded as a unique plant on this earth due to its broader geological distribution across the continents; ability to be cultivated in different forms; multiple uses of leaf foliage and its positive impact in environmental safety approaches such as ecorestoration of degraded lands, bioremediation of polluted sites, conservation of water, prevention of soil erosion and improvement of air quality by carbon sequestering.

Mulberry is also used as a medicinal plant in improving and enhancing the life of human beings by utilizing the biologically active pharmacokinetic compounds found in leaf, stem and root parts. Further industrial exploitation of mulberry through preparation of various products in pharmaceutical, food, cosmetic and health care industries has gained the attention of industrialists. As mulberry is being exploited by sericulture, pharmaceutical, cosmetic, food and beverage industries along with its utilization in environmental safety approach; it is appropriate to call it as a most suitable plant for sustainable development.





Mulberry Garden

Prin. Dr. Milind S. Hujare Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli). "Dissemination of Education for Knowledge, Science, and Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe

SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA, KOLHAPUR

PADMABHUSHAN DR.VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

DEPARTMENT OF BOTANY

REPORT OF

"CULTIVATION OF MEDICINAL AND AROMATIC PLANTS"

2020-2021

CULTIVATION OF SUITABLE MEDICINAL AND AROMATIC PLANTS.

Medicinal and aromatic plants form a numerically large group of economically important plants which provide basic raw materials for medicines, perfumes, flavors and cosmetics. These plants and their products not only serve as valuable source of income for small land holder's farmers and entrepreneurs but also earn valuable foreign exchange by way of export. India possesses a rich and diverse variety of plant resources to meet the growing demand for plant-based drugs, perfumery and flavor items. Availability of wide variation in soil and climate in our country offers great potential for cultivation of these plants in the country in general and Maharashtra in particular. During the last decades there has been a renewed interest in recognizing plants as a source of drugs, perfumes and cosmetics which may be due to little or no side effects associated with their application and user friendly and environment friendly products. It is therefore necessary to collect, conserve and evaluate germplasm and to develop agro technologies for medicinal and aromatic plants with potential for farming. Plants have been a major source of therapeutic agents for alleviation or cure of human diseases since time immemorial. At present there are about 130 clinically useful prescription drugs of known chemical structure which are used in Modern System of Medicine and solely derived from about 100 species of higher plants. The traditional system of medicine continue to cater in to the medicinal needs of the about 80% world population. India has a unique position in the world where a number of Traditional Systems of Medicine are practised such as Ayurveda, Siddha, Unani, Homeopathy, Yoga and Naturopathy for the total health care. These systems of medicine are heavily dependent upon the medicinal plants. A recent study indicates that the herbal

drug market continues to grow at the rate of 15% annually. In India, earlier, the medicines used in indigenous systems of medicines were generally prepared by the practicing physicians by themselves, but now this practice has been largely replaced by the establishment of organized indigenous drugs industry. Several hundred genera are used in herbal remedies and in traditional or folklore medicines throughout the world. As per one estimate 35-70,000 species have been used in some culture for medicinal purposes. They are used in the form of crude drugs which are dried parts of the medicinal plants (root, stem, wood, bark, leaves, flowers, fruits seeds and in some cases whole plants) or their extracts. There is much smaller number of plants from which individual active constituents are isolated and used as medicines, either alone or in combination. The species used for isolation of active ingredients may be indigenous species growing wild or cultivated, or hybrids or other cultivated varieties that have been bred for a particular characteristic. One of the major difficulties of medicinal plants cultivation in large scale is the lack of scientific and appropriate agro technology for different climatic zones of the country.

Keeping in mind the importance of medicinal plants the department of Botany has undertaken a cultivation program of medicinal plants in the college garden. The plants saplings are collected from various sources from Western Ghats and cultivated in the garden. Around 108 and more medicinal plants are cultivated in the college garden. The idea behind this program is to create an awareness among the students and surrounding farmers. These plants are well survived and show healthy growth.



Plumbago zeylanica



Terminalia bellirica



Rauvolfia serpentina



Embelia ribes

Table: List of medicinal plants cultivated in the Institute.

| Sr.No. | Botanical Name | Marathi Name | Family | Medicinal uses |
|--------|---|-----------------|------------|---------------------|
| 1. | Garcinia indica Choisy | कोकम | Clusiaceae | Anti – acidic Juice |
| 2. | Pterospermum suberifolium (L.) Willd. | मुचकुंद | Malvaceae | Aromatic |
| 3. | Piper cubeba <u>L.f.</u> | कंकोळ | Piperaceae | Spices |
| 4. | Gardenia gummifera <u>L.f.</u> | डिकेमाली | Rubiaceae | Digestive disorder |
| 5. | Coffea Arabica L. | कॉफी | Rubiaceae | Beverage |

| 6. | Couroupita guianensis Aubl. | कैलासपती | Lecythidaceae | Malaria |
|-----|--|--------------|----------------|--------------------------|
| 7. | Borassus flabellifer L. | थती | Arecaceae | Energy Drink |
| 8. | Lawsonia inermis L. | मेहेंदी | Lythraceae | Natural Dye, Jaundice |
| 9. | Aquilaria malaccensis Lam. | कृष्णगुरु | Thymelaeaceae | Asthma |
| 10. | Butea monosperma (Lam.) Taub. | पळस | Fabaceae | Natural Dye |
| 11. | Chonemorpha fragrans (Moon) Alston. | मोमी | Apocynaceae | Anti–Diabetic |
| 12. | Bixa orellana L. | शेंदरी | Bixaceae | Natural Dye |
| 13. | Gmelina arborea Roxb. | शिवण | Lamiaceae | Anti Diabetic |
| 14. | Manilkara hexandra | खिरणी | Sapotaceae | Fever, Jaundice |
| 15. | Asparagus racemosus <u>Willd.</u> | शतावरी | Asparagaceae | Cancer |
| 16. | Pterocarpus santalinus L.f. | रक्तचंदन | Fabaceae | Tonic, Swelling |
| 17. | Prosopis cineraria (<u>L</u> .) <u>Druce</u> . | शमी | Fabaceae | Asthma |
| 18. | Bacopa monnieri (L.) Pennell | नीर ब्राम्ही | Plantaginaceae | Anti Diabetic |
| 19. | Helicteres isora L. | मुरुड शेंग | Malvaceae | Anti Diabetic |
| 20. | Solanum nigrum L. | डोरली | Solanaceae | Skin Diseases |

| 21. | Strobilanthes callosa Nees. | कारवी | Acanthaceae | Jaundice |
|-----|--|------------------|-----------------|---------------------------------|
| 22. | Basella alba L. | मायाळू | Basellaceae | Leaf Vegetable |
| 23. | Coleus amboinicus Lour. | पानओवा | Lamiaceae | Gastric Disorders |
| 24. | Sapindus saponaria L. | रिठा | Sapindaceae | Astringent, Soap Nut |
| 25. | Elaeocarpus ganitrus Roxb. ex G.Don | रुद्राक्ष | Elaeaocarpaceae | Blood Purifier |
| 26. | Convolvulus prostrates Forsk. | शंखपुष्पी | Convolvulaceae | Brain Tonic |
| 27. | Dalbergia sissoo <u>Roxb.</u> | शिसम | Fabaceae | Molluscicidal, Tooth Brush |
| 28. | Piper longum <u>L.</u> | लेंडी पिंपळी | Piperaceae | Chronic Malaria, Stomachache |
| 29. | Plumbago zeylanica <u>L.</u> | श्वेतचित्रक | Plumbaginaceae | Skin diseases |
| 30. | Premna serratifolia <u>L.</u> | नरवेल | Lamiaceae | Anti-pyretic |
| 31. | Mussaenda frondosa <u>L.</u> | जंगली मुसांडा | Rubiaceae | Tuberculosis, Jaundice |
| 32. | Madhuca longifolia (<u>I.Konig</u>) | मोहा | Sapotaceae | Tonic, Cough |
| 33. | Carissa carandas <u>L.</u> | करवंद | Apocynaceae | Skin disease |
| 34. | Eclipta prostrata (<u>L.) L.</u> | माका | Asteraceae | Cough and Asthma |
| 35. | Wrightia antidysenterica | कुडा | Apocynaceae | Skin disorders |

| | (<u>L.) R.Br.</u> | | | |
|-----|--|------------|------------------|--|
| 36. | Alstonia scholaris (<u>L.) R.Br.</u> | सातवीण | Apocynaceae | Fevers, Dysentery, Cancer, Malaria |
| 37. | Gymnema sylvestre <u>R.</u> <u>Br.</u> | माडूनाशी | Apocynaceae | Diabetes, Weight loss, Cough |
| 38. | Mammea suriga (<u>Buch</u> <u>Ham.</u> ex <u>Roxb.</u>) <u>Koster</u> <u>m.</u> | सुरंगी | Calophyllaceae | Dyspepsia and Haemorroid |
| 39. | Mentha spicata <u>L.</u> | मिंट | Lamiaceae | Cough, Cold, Asthma, Fever |
| 40. | Crateva nurvala Buch. Ham. | वरुण | Capparaceae | Rheumatic Fever, Gastric irritation |
| 41. | Ziziphus oenoplia (<u>L.</u>) <u>Mill.</u> | तोरण | Rhamnaceae | Dysentery |
| 42. | Aristolochia indica <u>L.</u> | सापसन | Aristolochiaceae | Boost the Immune system, Snakebite |
| 43. | Putranjiva roxburghii L. | पुत्रंजिवा | Putranjivaceae | Skin Ailment |
| 44. | Rauvolfia serpentine (<u>L.</u>) <u>Benth.</u> ex <u>Kurz</u> | सर्पगंधा | Apocynaceae | High blood pressure, Asthma |
| 45. | Pandanus amaryllifolius <u>Roxb.</u> | केवडा | Pandanaceae | Chest pains, Reduce fevers |
| 46. | Baliospermum montanum L. | दंती | Euphorbiaceae | Purgative, Anthelmentic |

| 47. | Limonia acidissima L. | कवठ | Rutaceae | Tonic for heart and |
|-----|-------------------------------------|----------|----------------|----------------------|
| | | | | lungs |
| 48. | Withania somnifera | अश्वगंधा | Solanaceae | Lower blood |
| | (<u>L.</u>) <u>Dunal</u> | | | pressure |
| 49. | Lagerstroemia | ताम्हण | Lythraceae | Anti – oxidant |
| | speciosa (<u>L.</u>) <u>Pers.</u> | | | |
| 50. | Grewia asiatica <u>L.</u> | फालसा | Malvaceae | Treating throat, |
| | | | | tuberculosis |
| 51. | Carica papaya L. | पपई | Caricaceae | Increase the count |
| | | | | of white blood |
| | | | | cells and platelets |
| 52. | Barringtonia | समुद्रफळ | Lecythidaceae | Cough, Diarrhea, |
| | acutangula (L.) Gaertn. | | | Fever. |
| 53. | Mesua ferrea L. | नागचाफा | Calophyllaceae | Antiseptic, Anti- |
| | | | | inflammatory, |
| | | | | Blood purifier |
| 54. | Polypodium | बाशिंगी | Polypodiaceae | Skin Ailment |
| | qercifolium | | | |
| 55. | Artemisia vulgaris | सुरबंधी | Asteraceae | <u>Antiparasitic</u> |
| | <u>L.</u> C.B. Clarke Mattf. | | | |
| 56. | Abrus precatorius <u>L.</u> | गुंज | Fabaceae | Anti Diabetic |
| 57. | Phyllanthus amarus | भुईआवळा | Phyllanthaceae | Gallstones and |
| | Schumach. | | | Kidney stones |
| 58. | Terminalia arjuna | अर्जुन | Combretaceae | Antioxidant, Anti- |
| | Roxb. | | | Carcinogenic |
| 59. | Syzygium aromaticum | लवंग | Myrtaceae | Asthma, |
| | | | | Bronchitis, Anti - |

| | (<u>L.) Merr.</u> | | | Acidic |
|-----|---|------------|----------------|---|
| 60. | Celastrus paniculatus <u>Willd.</u> | मालकांगुणी | Celastraceae | Anti-arthritic, Wound healing |
| 61. | Pterocarpus marsupium <u>Roxburgh</u> | बिवळा | Fabaceae | Antibiotic, Hypoglycaemic |
| 62. | Senegalia catechu (L.f.) P.J.H.Hurter & Mabb. | खैर | Fabaceae | Osteoarthritis |
| 63. | Cordia dichotoma <u>G.Forst.</u> | भोकर | Boraginaceae | Anthelmintic |
| 64. | <u>Erythrina</u> <u>corallodendron</u> L. | पांगारा | Fabaceae | Anti carcinogenic |
| 65. | Bauhinia racemosa L. | आपटा | Fabaceae | Anti-carcinogenic, Anti-inflammatory |
| 66. | Calophyllum inophyllum <u>L.</u> | उंडी | Calophyllaceae | Fish poison |
| 67. | Moringa oleifera <u>Lam.</u> | शेवगा | Moringaceae | Antioxidant |
| 68. | Curcuma amada Roxburgh | आंबेहळद | Zingiberaceae | Antioxidant, Antibacterial |
| 69. | Premna serratofolia L. | अग्निमंथ | Lamiaceae | Anti – Inflammatory |
| 70. | Semecarpus anacardium <u>L.f.</u> | बिब्बा | Anacardiaceae | Digestive disorders |
| 71. | Terminalia bellirica (<u>Gaertn.</u>) <u>Roxb.</u> | बेहडा | Combretaceae | Antioxidant (Triphala) |
| 72. | Kaempferia rotunda <u>L.</u> | भुईचाफा | Zingiberaceae | Anti – Inflammatory, |

| | | | | Analgesic |
|-----|--|-----------------|-----------------|---------------------------------------|
| 73. | Myristica fragrans <u>Houtt.</u> | जायफळ | Myristicaceae | Antiseptic, Analgesic |
| 74. | Embelia roubusta <u>Burm.f.</u> | आमटी | Primulaceae | Antimicrobial, Antioxidant |
| 75. | Oroxylum indicum (<u>L.</u>) <u>Benth.</u> ex <u>Kurz</u> | टेटू | Bignoniaceae | Astringent, Tonic, Anti-diarrhoeal |
| 76. | Memecylon umbellatum Burm.f. | अंजन | Melastomataceae | Herpes, Diabetes, Cough |
| 77. | Cinnamomum zeylanicum <u>J.Presl</u> | दालचीनी | Lauraceae | Spice |
| 78. | Cinnamomum tamala Buch.Ham. | तमालपत्र | Lauraceae | Spice |
| 79. | Areca catechu L. | सुपारी | Arecaceae | Mouth Freshener |
| 80. | Hemidesmus indicus (L.) R.Br. | अनंतमूळ | Apocynaceae | Astringent, Blood purifier |
| 81. | Saraca indica L. | सीतेचा अशोक | Fabaceae | Antioxidants, Hematoprotective |
| 82. | Aegle marmelos L. | बेल | Rutaceae | Dysentery, Diabetes |
| 83. | Cissus quadrangularis L. | अस्थी शृंखला | Vitaceae | bone health, Diabetes |
| 84. | Santalum album L. | चंदन | Santalaceae | Anti - Inflammatory, |

| | | | | Skin diseases |
|-----|--|----------------|---------------|--------------------------------------|
| 85. | Clerodendrum infortunatum L. | भारंगी | Lamiaceae | Rheumatism, Swelling |
| 86. | Tylophora indica (<u>Burm. f.</u>) <u>Merr.</u> | दमवेल | Apocynaceae | Asthma, Expectorant |
| 87. | Cheilocostus speciosus J.Konig | कोष्ठ | Costaceae | Kidney problems |
| 88. | Desmodium gangeticum (L.) DC. | सालवान | Fabaceae | Febrifuge, Diuretic |
| 89 | Embelia ribes Burm.f. | वावडींग | Primulaceae | Anthelmintic |
| 90 | Acorus calamus L. | वेखंड | Acoraceae | Antioxidant, Anti- inflammatory |
| 91. | Abelmoschus ficulneus (L.) Wight | रानभेंडी | Malvaceae | Antibacterial |
| 92. | Barleria prionitis L. | पिवळीकरो ति | Acanthaceae | Dental problems and gout |
| 93. | Cassia alata L. | कॅशिआ | Fabaceae | Skin recovery , Stomach infection |
| 94. | Terminalia catappa L. | बदाम | Combretaceae | Antioxidant |
| 95. | Ixora coccinea L. | देव्हारी | Rubiaceae | Skin disease, Fever |
| 96. | Helicteres canescens L. | मुरुडशेंग | Sterculiaceae | Snake bite, Abdominal swelling |
| 97. | Asclepias curassavica L. | हळदीकुंकू | Apocynaceae | Antioxidant |

| 98. | <u>Crotalaria retusa</u> L. | खुळखुळा | Fabaceae | Fever, Lung diseases |
|------|---------------------------------|----------------|---------------|-------------------------|
| | | | | alseases |
| 99. | <u>Barleria involucrata</u> | जांभलीकोरं | Acanthaceae | Diabetes |
| | <u>elata</u> Dalzell C.B.Clarke | टी | | |
| 100. | Sesbania sesba L. | जायंटकरो ति | Fabaceae | Scorpion sting |
| 101. | Caryota urens L. | सुरमाड | Areceae | Cool and |
| | | | | Nutritious |
| 102. | Allocasia indica L. | कासाळु | Areceae | Antioxidant |
| | | | | Cytotoxic |
| 103. | Grewia tiliifolia | धामण | Tiliaceae | Cough, Anti- |
| | Burrett | | | carcinogenic |
| 104. | Celastrus paniculatus | मालकांगुणी | Celastraceae | Amnesia, Leprosy |
| 105. | Bombax ceiba L. | काटेसावर | Bombacaceae | Dysentery, |
| | | | | Haemoptysis |
| 106. | Maranta arundicacea | आरारूट | Marantaceae | Skin disorders and |
| | L. | | | Stomachache |
| 107. | Elettaria cardamomum | वेलदोडा | Zingiberaceae | Spice |
| 108. | Actinodaphne | सांधरूख | Lauraceae | Gastrointestinal, |
| | quinqueflora | | | Ailments |
| 1 | | 1 | | 1 |

(Dr. N. A. Kulkarni)

HEAD DEPARTMENT OF BOTANY PADMAEH SHAN DR VASANTRAD DADA PATH MALHANITYLAYA, TASGAON DAST BANGU "Dissemination of Education for Knowledge, Science, and Culture" -Shikshanmaharshi Dr.Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

DEPARTMENT OF BOTANY

REPORT OF



(The Botanical Information of the Standing Trees In P.D.V.P. College, Tasgaon Campus)

2019 - 2020

INTRODUCTION

Diversity in the plants plays an important role in social places. The diversity in the social places like college gives multiple advantages like aesthetic view, recreation, study value, pollution free environment etc. Developing a well grown garden in a college takes many years' pains and labor. The Garden of P.D.V.P. College has composed of well diversified plants which are consisting some of the common and uncommon plants. Some of the plants are full grown and reached up to several feet height. These plants are now giving the shade and recreational places to the students. The present attempt is the enumeration and scientific study of the standing dominant trees of the P.D.V.P. College campus. These plants are also serving as a source of Carbon sequestration for the campus. Till date Twenty Nine different species of trees are recorded during the study. The plant specimens are collected and brought in the laboratory and referred with available literature. Present report gives an idea of present tree flora of P.D.V.P. College campus.

Courtesy: 1. "WIKIPEDIA" a free encyclopedia and 2. Flora of Bombay Presidency by T. Cooke (1901). The data is only for academic purpose and not for any commercial purpose.

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Acacia auriculiformis

| Name of the Plant | Acacia auriculiformis |
|---------------------------|---|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Fabales |
| Family: | Fabaceae |
| Clade: | Mimosoideae |
| Genus: | Acacia |
| Species: | A. auriculiformis |
| Binomial name | Acacia auriculiformis A.Cunn. ex Benth. |

Acacia auriculiformis (Australia wattle) is another species which is planted in the garden for its attractive shape, foliage and shade. It is a dwarf tree and produce typically spiral legume shaped fruits. A. cyanophylla commonly called as Golden acacia, is another handsome species which bears golden flowers. It is also dwarf but possess brittle branches.



Acacia auriculiformis Flowers



Acacia auriculiformis Fruits

Albizia lebbeck

| Name of the Plant | Albizia lebbeck |
|---------------------------|-----------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Fabales |
| Family: | Fabaceae |
| Clade: | Mimosoideae |
| Genus: | Albizia |
| Species: | A. lebbeck |
| Binomial name | Albizia lebbeck (L.) Benth. |

This is native of Indo-Malaya region and is large quick growing tree. Trunk is tall and colour is greenish yellow white. Leaves are bi-pinnate of light green colour. Tree produces profuse flowers in July-August. Flowers are small heads of yellowish white in colour. It is good tree for roadside plantation and for big parks. It can also be easily propagated by seeds.



Flowers and Fruits of Albizia lebbeck

Bauhinia variegata

| Name of the Plant | Bauhinia variegata |
|---------------------------|--------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Fabales |
| Family: | Fabaceae |
| Clade: | Mimosoideae |
| Genus: | Bauhinia |
| Species: | B. variegata |
| Binomial name | Bauhinia variegata (L.) Benth. |

This is a tall tree producing flowers of rose colored variegated with red and yellow which appear in mid of March. Most ideally suited for planting as specimen or in groups in gardens and big parks and as avenue tree alongside the road.



Bauhinia variegata Flowers



Bauhinia variegata Leaves





Bauhinia variegata Fruits

Bauhinia variegata Pollens
Casuarina equisetifolia

| Name of the Plant | Casuarina equisetifolia |
|---------------------------|----------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Fagales |
| Family: | Casuarinaceae |
| Genus: | Bauhinia |
| Species: | C. equisetifolia |
| Binomial name | Casuarina equisetifolia L. |

It is native of Australia, Burma, Malaya and Pacific Islands and is commonly called as beefwood, Janglisaru, Farash or Jor-Tor on account of cord like leaves which are easily separated at the node and can be temporarily fixed without knowing breaking point. It is a tall, upright, evergreen and fast growing tree.

It has rough bark and spreading branches. Trees are dioceses producing male and female cones separately. Easily propagated through seed. It is tolerant to saline soils. It is planted for screening purpose and can be planted closely and trimmed as tall hedge.



Casuarina equisetifolia Trees



Casuarina equisetifolia Fruits

Cedrela toona

| Name of the Plant | Cedrela toona |
|---------------------------|------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Sapindales |
| Family: | Meliaceae |
| Genus: | Cedrela |
| Species: | C. toona |
| Binomial name | <i>Toona ciliate</i> M. Roem |

It is commonly called the toona or Indian Mahagoni tree and is native of Indo-Malaya region and Australia. It is a large, quick growing tree having shining compound leaves. Flowers are small, white and appear in middle of April. Easily propagated by seeds. It is planted in the garden in groups for shade and also suitable for roadside plantation.



Cedrela toona Trees



Cedrela toona Flowers

Chorisia speciosa

| Name of the Plant | Chorisia speciosa |
|---------------------------|-----------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Malvales |
| Family: | Malvaceae |
| Genus: | Ceiba |
| Species: | C. speciosa |
| Binomial name | Ceiba speciosa (A.StHil.) Ravenna |

It is native of Mexico and Brazil and commonly called as Mexican Semal. It is an erect tree with well-placed branches. Stem is waxy green with spines. Leaves are palmate in shape, of light green colour. Flowers are pink with creamish white centre which appear in October-November when tree is in leafless condition. It flowers when other trees are not in bloom. It is planted in the garden as specimen.



Chorisia speciosa Trees



Chorisia speciosa Flowers

Delonix regia

| Name of the Plant | Delonix regia |
|---------------------------|------------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Fabales |
| Family: | Fabaceae |
| Genus: | Delonix |
| Species: | D. regia |
| Binomial name | Delonix regia (Boj. ex Hook.) Raf. |

It is native of Madagascar and is commonly known as Gulmohar, Peacock or Flamboyant flower. It is a fast growing large tree. Limbs are spreading and form an umbrella. Leaves are compound and leaflets are small with round apices. Showy flowers or orange, red, scarlet to salmon colour are produced in May-June.

Easily propagated through seeds. It is an ideal tree for big parks for beautiful flowers as well as for shade. Under North Indian conditions it starts declining after 10-12 years. It has shallow root system and hence grass does not grow under this tree.



Delonix regia Trees



Delonix regia Flowers

Ficus religiosa

| Name of the Plant | Ficus religiosa |
|---------------------------|--------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Rosales |
| Family: | Moraceae |
| Genus: | Ficus |
| Species: | F. religiosa |
| Binomial name | Ficus religiosa L. |

It is commonly called as Pipal or Bodhi tree and native of India. It is associated with three deities of Hindu religion i.e. Brahma, Vishnu and Shiva and also with Lord Buddha; hence, it is considered to be a sacred tree and is worshipped. It is a huge tree with spreading branches.

Leaves are cordate in shape and shining. Flowers are very small hidden in synconium which appear in April-May. Easily propagated through seeds and cuttings. It is commonly planted in villages near ponds for shade and also in big parks. Birds take shelter on this tree, eat fruit and disperse the seeds.



Ficus religiosa Leaves



Ficus religiosa Fruits

Pithecellobium dulce

| Name of the Plant | Pithecellobium dulce |
|---------------------------|-------------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Fabales |
| Family: | Fabaceae |
| Genus: | Pithecellobium |
| Species: | P. dulce |
| Binomial name | Pithecellobium dulce (Roxb.) Benth. |

It is popularly known as Jangal jalebi due to its curvaceous fruits. It is quick growing evergreen tree having thorns. Leaves are compound and of dark green colour. Flowers are not very showy which appear in the month of March-April and easily propagated through seeds. It is highly suitable for boundary plantation and tall protective hedge.



Pithecellobium dulce Trees



Pithecellobium dulce fruits

Santalum album

| Name of the Plant | Santalum album |
|---------------------------|-------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Santalales |
| Family: | Santalaceae |
| Genus: | Santalum |
| Species: | <i>S.album</i> |
| Binomial name | Santalum album L. |

Santalum album, or Indian sandalwood, is a small tropical tree, and is the most commonly known source of sandalwood. It is native to southern India and Southeast Asia. Certain cultures place great significance on its fragrant and medicinal qualities. It is also considered sacred in some religions and is used in different religious traditions. The plant is widely cultivated and long lived, although harvest is only viable after many years. Etymologically it is derived from Sanskrit *chandanam*.

The height of the evergreen tree is between 4 and 9 metres. The tree is variable in habit, usually upright to sprawling, and may intertwine with other species. The reddish or brown bark can be almost black and is smooth in young trees, becoming cracked with a red reveal. The heartwood is pale green to white as the common name indicates. The leaves are thin, opposite and ovate to lanceolate in shape.



Flowers of Santalum



Fruits of Santalum

Mangifera indica

| Name of the Plant | Mangifera indica |
|---------------------------|---------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Sapindales |
| Family: | Anacardiaceae |
| Genus: | Mangifera |
| Species: | M.indica |
| Binomial name | Mangifera indica L. |

Mangifera indica, commonly known as mango, is a species of flowering plant in the sumac and poison ivy family Anacardiaceae. It is native to the Indian sub-continent where it is indigenous. Hundreds of cultivated varieties have been introduced to other warm regions of the world. It is a large fruit-tree, capable of growing to a height and crown width of about 30 metres (100 ft) and trunk circumference of more than 3.7 metres (12 ft). Mangiferin(a pharmacologically active hydroxylated xanthone C-glycoside) is extracted from mango. Allergenicurushiols are present in the fruit peel. In Ayurveda, it is used in a Rasayana formula sometimes with other mild sours and shatavari (*Asparagus racemosus*) and guduchi (*Tinospora cordifolia*). In traditional medicine, varied properties are attributed to different parts of the mango tree. The wood is susceptible to damage from fungi and insects. The wood is used for musical instruments such asukuleles, plywood and low-cost furniture.



Mangifera indica Flowering



Mangifera indica Fruits

Ficus racemosa

| Name of the Plant | Ficus racemosa |
|---------------------------|-------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Rosales |
| Family: | Moraceae |
| Genus: | Ficus |
| Species: | F. racemosa |
| Binomial name | Ficus racemosa L. |

Ficus racemosa (syn. *Ficus glomerata* Roxb.) is a species of plant in the family Moraceae. Popularly known as the **cluster fig tree**, **Indian fig tree** or **goolar (gular) fig**, this is native to Australia, Malesia, Indo-China and the Indian subcontinent. It is unusual in that its figs grow on or close to the tree trunk, termed cauliflory. In India, the tree and its fruit are called *gular* in the north and *atti* in the south. The fruits are a favorite staple of the common Indian monkeys. It serves as a food plant for the caterpillars.

Health uses

The bark of *audumbar* (*oudumbar*) tree is said to have healing power. In countries like India, the bark is rubbed on a stone with water to make a paste, which can be applied over afflicted by boils or mosquito bites. Allow the paste to dry on the skin and reapply after a few hours.



Ficus racemosa Fruits

Cocos nucifera

| Name of the Plant | Cocos nucifera |
|---------------------------|--------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Monocots |
| Clade: | <u>Commelinids</u> |
| Order: | Arecales |
| Family: | Arecaceae |
| Genus: | Cocos L. |
| Species: | C. nucifera |
| Binomial name | Cocos nucifera L. |

The **coconut tree** (Cocos nucifera) is a member of the palm tree family (Arecaceae) and the only known living species of the genus Cocos.

Coconuts are known for their versatility of uses, ranging from food to cosmetics. The inner flesh of the mature seed, as well as the coconut milk extracted from it, forms a regular part of the diets of many people in the tropics and sub tropics. Coconuts are distinct from other fruits because their endosperm contains a large quantity of clear liquid, called coconut water or coconut juice.

Mature, ripe coconuts can be used as edible seeds, or processed for oil and plant milk from the flesh, charcoal from the hard shell, and coir from the fibrous husk. Dried coconut flesh is called copra, and the oil and milk derived from it are commonly used in cooking –frying in particular – as well as in soaps and cosmetics. The hard shells, fibrous husks and long pinnate leaves can be used as material to make a variety of products for furnishing and decorating. The coconut also has cultural and religious significance in certain societies, particularly in India, where it is used in Hindu rituals.





Entire Coconut Tree

Coconut Fruits

| Name of the Plant | Eucalyptus globulus |
|---------------------------|------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Myrtales |
| Family: | Myrtaceae |
| Genus: | Eucalyptus |
| Species: | E. globulus |
| Binomial name | Eucalyptus globulus L. |

Eucalyptus globulus

The bark is smooth, fibrous, hard or stringy, leaves with oil glands, and sepals and petals that are fused to form a "cap" or operculum over the stamens. The fruit is a woody capsule commonly referred to as a "gumnut".

The wood of the trees can be used as ornament, timber, firewood and pulpwood. Eucalyptus wood is also used in a number of industries, from fence posts and charcoal to cellulose extraction for biofuels. Fast growth also makes eucalypts suitable as wind breaks and to reduce erosion. It is the most common source for pulp wood to make pulp. Eucalyptus oil is readily steam distilled from the leaves and can be used for cleaning and as an industrial solvent, as an antiseptic, for deodorizing, and in very small quantities in food supplements, especially sweets, cough drops, tooth paste and decongestants. It has insect repellent properties, and is an active ingredient in some commercial mosquito repellents. Eucalyptus globulus is the principal source of eucalyptus oil worldwide.



Flowers of Eucalyptus



Fruits of Eucalyptus

Grevillea robusta

| Name of the Plant | Grevillea robusta |
|---------------------------|---|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Myrtales |
| Family: | Myrtaceae |
| Genus: | Grevillea |
| Species: | G. robusta |
| Binomial name | <i>Grevillea robusta</i> A.Cunn. ex R.Br. |

Grevillea robusta, commonly known as silver oak or Australian silver oak, is a flowering plant in the family Proteaceae. It is a fast-growing evergreen tree with a single main trunk, growing to 5–40 m tall. The bark is dark grey and furrowed. Its leaves are fern-like, 10-34 cm long, 9-15 cm wide and divided with between 11 and 31 main lobes. The flowers are arranged in one-sided, "toothbrush"-like groups, sometimes branched, 12–15 cm long. The carpel (the female part) of each flower has a stalk 21–28 mm long. The flowers are glabrous and mostly yellowish orange, or sometimes reddish. Flowering occurs from September to November and the fruit that follows is a glabrous follicle. The timber of the plant was widely used for external window joinery, as it is resistant to wood rot. It has been used in the manufacture of furniture, cabinetry, and fences.



Grevillea leaves



Grevillea fruits

Hyophorbe lagenicaulis

| Name of the Plant | Hyophorbe lagenicaulis |
|---------------------------|---|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Monocots |
| Clade: | Commelinids |
| Order: | Arecales |
| Family: | Arecaceae |
| Genus: | Hyophorbe |
| Species: | H. lagenicaulis |
| Binomial name | Hyophorbe lagenicaulis (L.H.Bailey) H.E.Moore |

Bottle palm has a large swollen (sometimes bizarrely so) trunk. Bottle palms have only four to six leaves open at any time. The leaves of young palms have a red or orange tint, but a deep green at maturity. The flowers of the palm arise from under the crown shaft. Its inflorescence branches in 4 orders, and its 2.5 cm fruits can be orange or black. The trunk of species becomes more and more slender at older ages. Bottle palms are very cold sensitive and are killed at 0 °C (32 °F) or colder for any appreciable length of time. They may survive a brief, light frost, but will have foliage damage.



Bottle palm trees

Azadirachta indica

| Name of the Plant | Azadirachta indica |
|---------------------------|-----------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Sapindales |
| Family: | Meliaceae |
| Genus: | Azadirachta |
| Species: | A. indica |
| Binomial name | Azadirachta indica A.Juss. (Neem) |

Azadirachta indica, commonly known as neem, nim tree or Indian lilac. Neem is a fast-growing tree that can reach a height of 15–20 metres. It is every even, but in severe drought it may shed most or nearly all of its leaves. The branches are wide and spreading. The fairly dense crown is roundish and may reach a diameter of 20–25 metres. The opposite, pinnate leaves are 20 - 40centimetres long, with 20 to 30 medium to dark green leaflets. The terminal The petioles are leaflet often is missing. short. The (white and fragrant) flowers are more-or-less arranged in smooth drooping axillary panicles. The fruit is (glabrous), oliveа like drupe which varies in shape from elongate oval to nearly roundish. The fruit skin (exocarp) is thin and the bitter-sweet pulp (mesocarp) is yellowishwhite and very fibrous. Neem leaves are dried in India and placed in cupboards to prevent insects eating the clothes, and also in tins where rice is stored. Neem products are believed by Siddha and Ayurvedic practitioners to be anthelmintic, antifungal, antidiabetic, antibacterial, antiviral, contraceptive, and sedative. It is particularly prescribed for skin diseases. Neem oil is also used for healthy hair, to improve liver function, detoxify the blood, and balance blood sugar levels. Neem leaves have also been used to treat skin diseases like eczema, psoriasis, etc.

Insufficient research has been done to assess the purported benefits of neem, however. In adults, short-term use of neem is safe, while long-term use may harm the kidneys or liver; in small children, neem oil is toxic and can lead to death. Neem may also cause miscarriages, infertility, and low blood sugar.







Fruits of Azadirachta indica

Mimusops elengi

| Name of the Plant | Mimusops elengi |
|---------------------------|--------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Asterids |
| Order: | Ericales |
| Family: | Sapotaceae |
| Genus: | Mimusops |
| Species: | M. elengi |
| Binomial name | Mimusops elengi L. |

Mimusops elengi is a medium-sized evergreen tree found in tropical forests. Its timber is valuable, the fruit is edible, and it is used in traditional medicine. As the trees give thick shade and flowers emit fragrance, it is a prized collection of gardens. Bullet wood is an evergreen tree reaching a height of about 16 m . It flowers in April, and fruiting occurs in June. Leaves are glossy, dark green, oval-shaped. Flowers are cream, hairy, and scented. Bark is thick and appears dark brownish black or grayish black in colour. The tree may reach up to a height of 9–18 m with about 1 m circumference. The bark, flowers, fruits, and seeds of *Bakula* are used in Ayurvedic medicine in which it is used as astringent, cooling, anthelmintic, tonic, and febrifuge. It is mainly used for dental ailments such as bleeding gums, pyorrhea, dental caries, and loose teeth.



Flowers and Fruits of Mimusops elengi

Plumeria alba

| Name of the Plant | Plumeria alba |
|---------------------------|------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Asterids |
| Order: | Gentianales |
| Family: | Apocynaceae |
| Genus: | Plumeria |
| Species: | P. alba |
| Binomial name | Plumeria alba L. |

Plumeria flowers are most fragrant at night in order to lure sphinx moths to pollinate them. *Plumeria* species may be propagated easily by cutting leafless stem tips in spring. Cuttings are allowed to dry at the base before planting in well-drained soil. Plumeria cuttings could also be propagated by grafting a cutting to an already rooted system. *Plumeria* species have a milky latex that, like many other Apocynaceae contains poisonous compounds that irritate the eyes and skin. The various species differ in their leaf shape and arrangement. The leaves of *Plumeria alba* are narrow and corrugated, whereas leaves of *Plumeria pudica* have an elongated shape and glossy, dark-green color. *Plumeria pudica* is one of the ever blooming types with non-deciduous, evergreen leaves.



Plumeria alba Tree



Plumeria alba Flowers

Terminalia catappa

| Name of the Plant | Terminalia catappa |
|---------------------------|-----------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Myrtales |
| Family: | Combretaceae |
| Genus: | Terminalia |
| Species: | T. catappa |
| Binomial name | Terminalia catappa L. |

The tree grows to 35 m tall, with an upright, symmetrical crown and horizontal branches. *Terminalia catappa* has corky, light fruit that are dispersed by water. The seed within the fruit is edible when fully ripe, tasting almost like almond. As the tree gets older, its crown becomes more flattened to form a spreading, vase shape. Its branches are distinctively arranged in tiers. The leaves are large, 15–25 cm long and 10–14 cm broad, ovoid, glossy dark green, and leathery. The trees are monoecious, with distinct male and female flowers on the same tree. Both are 1 cm in diameter, white to greenish. The fruit is a drupe 5–7 cm long and 3–5.5 cm broad. It is widely grown as an ornamental tree. The fruit is edible, tasting slightly acidic. The wood is red water resistance. and solid. and has high The leaves contain several flavonoids such as kaempferol or quercetin, several tannins such as punicalin, punicalagin or tercatin, saponines and phytosterols. Due to this chemical richness, the leaves (and the bark) are used in different herbal medicines for various purposes.



Flowers of Terminalia catappa



Fruits of Terminalia catappa

Alstonia scholaris

| Name of the Plant | Alstonia scholaris |
|---------------------------|-------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Asterids |
| Order: | Gentianales |
| Family: | Apocynaceae |
| Genus: | Alstonia |
| Species: | A. scholaris |
| Binomial name | Alstonia scholaris (L.) R.Br. |

Alstonia scholaris is a glabrous tree and grows up to 40 m tall. Its mature bark is grayish and its young branches are copiously marked with lenticels. The upper side of the leaves are glossy, while the underside is greyish. Leaves occur in whorls of three to ten; petioles are 1–3 cm. The leathery leaves are narrowly obovate to very narrowly spathulate, base cuneate, apex usually rounded. Cymes are dense and pubescent. Pedicels are usually as long as or shorter than calyx. The corolla is white and tube-like, 6–10 mm, lobes are broadly ovate or broadly obovate, 2–4.5 mm, overlapping to the left. The ovaries are distinct and pubescent. The follicles are distinct and linear.

Flowers bloom in the month October. The flowers are very fragrant. Seeds of *A. scholaris* are oblong, with ciliated margins, and ends with tufts of hairs 1.5–2 cm. The bark is almost odorless and very bitter, with abundant bitter and milky sap. The wood of *Alstonia scholaris* has been recommended for the manufacture of pencils, as it is suitable in nature and the tree grows rapidly and is easy to cultivate. At one time, decoctions of the leaves were used for beriberi. The bark contains the alkaloids ditamine, echitenine, echitamine and strictamine.



Alstonia scholaris Flowers



Alstonia scholaris Fruits

Neolamarckia cadamba

(Anthocephalus cadamba)

| Name of the Plant | Neolamarckia cadamba |
|---------------------------|-------------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Asterids |
| Order: | Gentianales |
| Family: | Rubiaceae |
| Genus: | Neolamarckia |
| Species: | N. cadamba |
| Binomial name | Neolamarckia cadamba (Roxb.) Bosser |

A fully mature kadam tree can reach up to 45 m in height. It is a large tree with a broad crown and straight cylindrical bole. It is quick growing, with broad spreading branches and grows rapidly in the first 6–8 years. The trunk has a diameter of 100-160 cm, but typically less than that. Leaves are 13-32 cm long. Flowering usually begins when the tree is 4–5 years old. Kadam flowers are sweetly fragrant, red to orange in colour, occurring in dense, globular heads of approximately 5.5 cm diameter. The fruit of N. cadamba occur in small, fleshy capsules packed closely together to form a fleshy yellow-orange infructescence containing approximately 8000 seeds. On maturing, the fruit splits apart, releasing the seeds, which are then dispersed by wind or rain. Stamens 5, inserted on the corolla tube, filaments short, anthers basifixed. Ovary inferior, bi-locular, sometimes 4-locular in the upper part, style exserted and a spindle-shaped stigma. Fruitlets numerous with their upper parts containing 4 hollow or solid structures. Seed trigonal or irregularly shaped. The sapwood is white with a light yellow tinge becoming creamy yellow on exposure and is not clearly differentiated from the heartwood. The fruit and inflorescences are reportedly edible by humans. The fresh leaves are fed to cattle. N. lamarckia is grown as an ornamental, and for low-grade timber and paper. The timber is used for plywood, light construction, pulp and paper, boxes and crates, dug-out canoes, and furniture components. Kadamba vields a pulp of satisfactory brightness and

performance as a hand sheet. The wood can be easily impregnated with synthetic resins to increase its density and compressive strength. The wood has a density of 290–560 kg/cu m at 15% moisture content, a fine to medium texture; straight grain; low luster and has no characteristic odor or taste. It is easy to work, with hand and machine tools, cuts cleanly, gives a very good surface and is easy to nail. The timber air dries rapidly with little or no degrade. Kadamba wood is very easy to preserve using either open tank or pressure-vacuum systems. Kadamba is one of the most frequently planted trees in the tropics. The tree is grown along avenues, roadsides and villages for shade. Kadamba are suitable for reforestation programs. It sheds large amounts of leaf and non-leaf litter which on decomposition improves some physical and chemical properties of soil under its canopy. This reflects an increase in the level of soil organic carbon, cation-exchange capacity, available plant nutrients and exchangeable bases. A yellow dye is obtained from the root bark. Kadamba flowers are an important raw material in the production of 'attar', which is Indian perfume with sandalwood (Santalum spp.) base in which one of the essences is absorbed through hydro-distillation. An extract of the leaves serves as a mouth gargle. The leaf extract has recently been used to produce silver nanoparticles for surface-enhanced Raman spectroscopy.



Neolamarckia cadamba Tree



Neolamarckia cadamba Fruits

Cycas revoluta

| Name of the Plant | Cycus revoluta |
|---------------------------|------------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Division | Gymnosperms |
| Class | Cycadopsida |
| Order: | Cycadales |
| Family: | Cycadaceae |
| Genus: | Cycus |
| Species: | C. revoluta |
| Binomial name | <i>Cycus revoluta</i> Thunb. |

This very symmetrical plant supports a crown of shiny, dark green leaves on a thick shaggy trunk that is typically about 20 cm in diameter, sometimes wider. The trunk is very low to subterranean in young plants, but lengthens above ground with age. It can grow into very old specimens with 6–7 m of trunk; however, the plant is very slow-growing and requires about 50–100 years to achieve this height. Trunks can branch several times, thus producing multiple heads of leaves. The leaves are a deep semi glossy green and about 50–150 cm long when the plants are of a reproductive age. They grow out into a featherlike rosette to 1 m in diameter. The crowded, stiff, narrow leaflets are 8–18 cm long and have strongly recurved or revolute edges. The basal leaflets become more like spines. The petiole or stems of the sago cycad are 6-10 cm (2.4-3.9 in) long and have small protective barbs. Roots are called *coralloid* with an Anabaena symbiosis allowing nitrogen fixation. Tannins-rich cells are found on either side of the algal layer to resist the algal invasion. As with other cycads, it is dioecious, with the males bearing pollen cones (strobilus) and the females bearing groups of megasporophylls. Pollination can be done naturally by insects or artificially. Propagation of *Cycas revoluta* is either by seed or clonally by removal of basal offsets. The pith contains edible starch, and is used for making sago. Before use, the starch must be carefully washed to leach out toxins contained in the pith. Extracting edible starch from the sago cycad requires special care due to the poisonous nature of cycads. Cycad sago is used for many of the same purposes as palm sago. Sago is extracted from the

sago cycad by cutting the pith from the stem, root and seeds of the cycads, grinding the pith to a coarse flour and then washing it carefully and repeatedly to leach out the natural toxins. The starchy residue is then dried and cooked, producing a starch similar to palm sago/sabudana. The cycad seed contains cycasin toxin and should not be eaten as it is possible for cycasin toxin to survive the most vigorous of repeated washings. Cycasin toxin can cause ALS, Parkinson's, prostate cancer and fibrolamellar hepatocellular carcinoma.

The hydro-alcoholic extract of leaves of *C. revoluta* shows the presence of alkaloids, steroids and tannins while the chloroform extract shows the presence of saponins, tannins and sugars.^[10] Leaflets also contain biflavonoids. Estragole is the primary volatile compound emitted from the male and female cones of *C. revolute*



Cycus revolute Plant



Cycus revolute Male Cones

Syzygium cumini

| Name of the Plant | Syzygium cumini |
|---------------------------|--------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Myrtales |
| Family: | Myrtaceae |
| Genus: | Syzygium |
| Species: | S. cumini |
| Binomial name | Syzygium cumini L. |

A slow growing species, it can reach heights of up to 30 m and can live more than 100 years. Its dense foliage provides shade and is grown just for its ornamental value. At the base of the tree, the bark is rough and dark grey, becoming lighter grey and smoother higher up. The wood is water resistant. Because of this it is used in railway sleepers and to install motors in wells. It is sometimes used to make cheap furniture and village dwellings though it is relatively hard to work on. The leaves which have an aroma similar to turpentine, are pinkish when young, changing to a leathery, glossy dark green with a yellow midrib as they mature. The leaves are used as food for livestock, as they have good nutritional value. Dried leaves are also used to make (native) cigarettes by wrapping them around a small piece of tobacco leave. *Syzygium cumini* trees start flowering from March to April. The flowers are fragrant and small, about 5 mm in diameter. The fruits develop by May or June and resemble large berries; the fruit of *Syzygium* species is described as "drupaceous". The fruit is oblong, ovoid. Unripe fruit looks green. As it matures, its color changes to pink, then to shining crimson red and finally to black color. A variant of the tree produces white coloured fruit. The fruit has a combination of sweet, mildly sour and astringent flavour and tends to colour the tongue purple.

The seed of the fruit is used in various alternative healing systems like Ayurveda, Unani and Chinese medicine. The extract of the fruit and seeds are found be effective against hyperglycemia in diabetic rats. Wine and vinegar are also made from the fruit. It has a high source in vitamin A and vitamin C.



Syzygium cumini Flowers



Syzygium cumini Fruits

Millingtonia hortensis

| Name of the Plant | Millingtonia hortensis |
|---------------------------|-----------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Asterids |
| Order: | Lamiales |
| Family: | Bignoniaceae |
| Genus: | Millingtonia |
| Species: | M. hortensis |
| Binomial name | Millingtonia hortensis L.F. |

The tree grows to height of between 18 and 25 meters and has a spread of 7 to 11 metres. It reaches maturity between 6 and 8 years of age and lives for up to 40 years. It is a versatile tree which can grow in various soil types and climates with a preference for moist climates.

The tree is evergreen and has an elongated pyramidal stem. The soft, yellowish-white wood is brittle and can break under strong gusts of wind.

The leaf is imparipinnate. The white flowers come as large panicles which emit a pleasant fragrance. They are bisexual and zygomorphic. The bellshaped sepals of the flower have five small lobes. The flower has four stamens with parallel anthers unlike in most other plants of this family where the anthers are divergent. The corolla is a long tube with five lobes

The fruit is a smooth flat capsule and is partitioned into two. It contains broad-winged seeds. The fruits are fed on by birds which aid in seed dispersal. In cultivation, the viability of seeds is low unless they are sown immediately after the fruit ripens, so the plant is generally propagated through cuttings.

The tree is considered ornamental and the pleasant fragrance of the flowers renders it ideal as a garden tree. The wood is also used as timber and the bark is used as an inferior substitute for cork. The leaves are also used as a cheap substitute for tobacco in cigarettes.



Millingtonia hortensis Flowers



Millingtonia hortensis Fruits

| Name of the Plant | Muntingia calabura |
|---------------------------|-----------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Malvales |
| Family: | Muntingiaceae |
| Genus: | Muntingia |
| Species: | M. calabura |
| Binomial name | Muntingia calabura L. |

Muntingia calabura

Muntingia is a genus of plants in the family Muntingiaceae, comprising only one species, *Muntingia calabura.* In Kerala it is seen in the areas adjacent to the Western Ghat. Usually it serves as a shade plant. The edible fruit ripens during November to January and is said to help diabetic patients. A small reduction was recorded in patients' blood sugar levels after consumption. A popular belief is that this tree leads to prosperity. 'Kattilanthi' is the colloquial name which means 'wild cherry'. It is also known as "Company Pazham". The tree is quite common in the dry land and planted for its shade along highways.

Muntingia calabura is a shrub or tree up to 12 m tall with spreading branches. The leaves are alternate, distichous, oblong or lanceolate, 4–15 cm long and 1–6 cm wide, with toothed margin and covered in short hairs. The flowers are small (up to 3 cm wide), solitary or in inflorescences of two or three flowers, with five lanceolate sepals, hairy, five obovate white petals, many stamens with yellow anthers, and a smooth ovoid ovary. Fruit, an edible berry, is red at maturity, about 1.5 cm wide.



Muntingia calabura Flowers



Muntingia calabura Fruits

Polyalthia longifolia

| Name of the Plant | Polyalthia longifolia |
|---------------------------|-----------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Magnolids |
| Order: | Magnoliales |
| Family: | Annonaceae |
| Genus: | Polyalthia |
| Species: | P. longifolia |
| Binomial name | Polyalthia longifolia Sonn. |

Large straight growing trees Found natively in India. It is introduced in gardens in many tropical countries around the world. Fresh leaves are a coppery brown color and are soft and delicate to touch, as the leaves grow older the color becomes a light green and finally a dark green. The leaves are shaped like a lance and have wavy edges. The leaves are larval food plant of the tailed jay and the kite swallowtail butterflies.

In spring the tree is covered with delicate star-like pale green flowers. The flowers last for a short period, usually two to three weeks, are not conspicuous due to their color.

Fruit is borne in clusters of 10-20, initially green but turning purple or black when ripe. The leaves are used for ornamental decoration during festivals. The tree is a main attraction in gardens throughout India. The tree can be cut into various shapes and maintained in required sizes. In past, the flexible, straight and light-weight trunks were used in the making of masts for sailing ships. That is why the tree is also known as the Mast Tree. Today, the tree is mostly used for manufacturing small articles such as pencils, boxes, matchsticks, etc. The oil of the seed has been confirmed to possess antioxidant, anti-lipoxygenase and antimicrobial.

Methanolic extracts of *Polyalthia longifolia* have yielded 20 known and two new organic compounds, some of which show cytotoxic properties. The fatty acid composition of the seed has also been reported.



Polyalthia longifolia Trees



Polyalthia longifolia Flowers



Polyalthia longifolia fruits

Millettia pinnata

(Pongamia pinnata)

| Name of the Plant | Millettia pinnata |
|---------------------------|--|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Fabales |
| Family: | Fabaceae |
| Genus: | Millettia |
| Species: | M. pinnata |
| Binomial name | <i>Millettia pinnata</i> L.(Panigrahi) |

Millettia pinnata is a legume tree that grows to about 15–25 metres in height with a large canopy which spreads equally wide. It may be deciduous for short periods. It has a straight or crooked trunk, 50–80 centimetres in diameter, with grey-brown bark which is smooth or vertically fissured. Branches are glabrous with pale stipulate scars. The imparipinnate leaves of the tree alternate and are short-stalked, rounded or cuneate at the base, ovate or oblong along the length, obtuse-acuminate at the apex, and not toothed on the edges. They are a soft, shiny burgundy when young and mature to a glossy, deep green as the season progresses with prominent veins underneath.

Flowering generally starts after 3–4 years with small clusters of white, purple, and pink flowers blossoming throughout the year. The racemelike inflorescence bear two to four flowers which are strongly fragrant and grow to be 15–18 millimetres long. The calyx of the flowers is bell-shaped and truncate, while the corolla is a rounded ovate shape with basal auricles and often with a central blotch of green color. Croppings of indehiscent pods can occur by 4–6 years. The brown seed pods appear immediately after flowering and mature in 10 to 11 months. The pods are thick-walled, smooth, somewhat flattened and elliptical, but slightly curved with a short, curved point. The pods contain within them one or two bean-like brownish-red seeds, but because they do not split open naturally the pods need to decompose before the seeds can germinate. The seeds are about 1.5–2.5 centimeters long with a brittle, oily coat and are unpalatable to herbivores.

The tree is well suited to intense heat and sunlight and its dense network of lateral roots and its thick, long taproot make it drought-tolerant. The dense shade it provides slows the evaporation of surface water and its root nodules promote nitrogen fixation. *Millettia pinnata* is well-adapted to arid zones and has many traditional uses. It is often used for landscaping purposes as a windbreak or for shade due to the large canopy and showy fragrant flowers. The flowers are used by gardeners as compost for plants requiring rich nutrients. The bark can be used to make twine or rope and it also yields a black gum that has historically been used to treat wounds caused by poisonous fish. The wood is said to be beautifully grained but splits easily when sawn thus relegating it to firewood, posts, and tool handles.

While the oil and residue of the plant are toxic and will induce nausea and vomiting if ingested, the fruits and sprouts, along with the seeds, are used in many traditional remedies. Juices from the plant, as well as the oil, are antiseptic and resistant to pests. In addition *M. pinnata* has the rare property of producing seeds of 25–40% lipid content of which nearly half is oleic acid. Oil made from the seeds, known as pongamia oil, is an important asset of this tree and has been used as lamp oil, in soap making, and as a lubricant for thousands of years. The oil has a high content of triglycerides, and its disagreeable taste and odor are due to bitter flavonoid constituents including karanjin, pongamol, tannin and karanjachromene. It can be grown in rainwater harvesting ponds up to 6 m in water depth without losing its greenery and remaining useful for biodiesel production.

The residue of oil extraction, called press cake, is used as a fertilizer and as animal feed for ruminants and poultry.

Long used as shade tree, *M. pinnata* is heavily self-seeding and can spread lateral roots up to 30 ft. over its lifetime. If not managed carefully it can quickly become a weed. However this dense network of lateral roots makes this tree ideal for controlling soil erosion and binding sand dunes.


Millettia pinnata Flowers



Millettia pinnata Fruits

Thespesia populnea

| Name of the Plant | Thespesia populnea |
|---------------------------|----------------------------|
| Scientific classification | |
| Kingdom: | Plantae |
| Clade: | Tracheophytes |
| Clade: | Angiosperms |
| Clade: | Eudicots |
| Clade: | Rosids |
| Order: | Malvales |
| Family: | Malvaceae |
| Genus: | Thespesia |
| Species: | T. populnea |
| Binomial name | Thespesia populnea L.(Sol) |

The Thespesia tree reaches a height of 6–10 m tall and its trunk can measure up to 20–30 cm in diameter. It grows at elevations from sea level to 275 m in areas that receive 500–1,600 mm of annual rainfall. The Portia tree is able to wide range of soil types that may grow in the be present in coastal environments. including soils derived from quartz (sand), limestone, and basalt; it favours neutral soils (pH of 6-7.4). Pollens are approximately 70 microns in size. The heartwood of the Portia tree is dark reddish brown to chocolate brown.



Thespesia populnea Flowers

Thespesia populnea Fruits



Dissemination of Education through Knowledge, Science and Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe



Shri Swami Vivekanand Shikshan Sanstha Kolhapur's

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON, DIST- SANGLI Pin Code - 416 312 (Maharashtra) Phone No: (02346) 250665 (Affiliated to Shivaji University, Kolhapur

Report On

"NO VEHICLE DAY"

Organized by

INTERNAL QUALITY ASSURANCE CELL

| Event: | NO VEHICLE DAY |
|-----------------------|------------------------------------|
| Organizing Department | IQAC |
| Date | Last Saturday of Every Month- 2018 |
| Venue | College Campus |
| Total Participants | All Stakeholders |

ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार'- शिक्षण महर्षी डॉ. बापुजी साळुंखे श्री स्वामी विवेकानंद शिक्षण संस्था ,कोल्हापूर ,संचालित पद्मभूषण डॉ. वसंतदादा पाटील महाविद्यालय,तासगाव जि. सांगली

NO VEHICLE DAY

दि. 20/06/2018

सूचना

महाविद्यालयातील सर्व विद्यार्थी ,शिक्षक व शिक्षकेतर सेवकांना सूचित करण्यात येते की ,जून 2018 पासून महाविद्यालयात "नो व्हेईकल डे" प्रत्येक महिन्याच्या शेवठच्या शनिवारी आयोजित करण्यात येणार आहे. तरी सर्वांनी महविद्यालयात येताना सदर दिवशी सार्वजनिक वाहनांचा वापर करावा व "नो व्हेईकल डे" साठी सहकार्य करावे.

सदरचे आयोजन पर्यावरण संवर्धनासाठी महाविद्यालयाने उचललेले पाऊल आहे.

आव्याव्य.

पग्रभूषण ठॉ. पर्यतरावदादा पाठील महाविद्यालय, तासगांव, जि. सांगली.(O.S)

No -Vehicle Day Digital Board Display Inauguration Programme



Prin.Dr. Milind Hujare With IQAC Chairman Prof. (Dr.) S. S. Patil

Introduction:

Shri Swami Vivekanand Shikshan Sanstha Kolhapur's President Shikshanmaharshi Dr. Bapuji Salunkhe started Padmabhusan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon on June 1962 at Tasgaon Tahsil in Sangli District. According to the quote of Shikshanmaharshi Dr. Bapuji *"Dissemination of Education through Knowledge, Science and Culture"* he started schools and colleges in villages of Maharashtra state. Today Shri Swami Vivekanand Shikshan Sanstha spreads about 7 districts of Maharashtra State and 403 branches. In Sanstha about 4 to 5 lakhs students are studying and about 8000 to 9000 teaching and non-teaching staff are working today. Our college always involved in Social activities in large scale and providing the knowledge of socio-economic values.

Our college located in Rural area of Tasgaon Tahsil. In our college about 4000 student are studying in UG to PG section and about 170 teaching and non-teaching staff are present. Most of the students and staff coming from villages by common buses, two wheelers as well car. We are start our college campus pollution free and campus goes to green under the guidance of Prin. Dr. R. R. Kumbhar. Our Principal call the meeting on the month of June 2018 on discussion on No Vehicle Day. During this meeting all students and teaching staff are accepted the rules and regulation of **"No - Vehicle Day"**.

During this meeting Principal talks on benefits of "**No - Vehicle Day**" on the environment, Social life, and Health and Socio economic importance of Nation. All these suggestions and benefits are accepted by students and staff of our college.

Principal released notice to all students, faculties and non teaching staff of college on 20/06/2018. During meeting finalized last Saturday of every month is "No Vehicle Day" of campus. All the students, faculties and non teaching staff of college are accepted for Future Safe, clean Environment and Sound Free Zone.

In our College 64 staff coming by Motor Cycle, 17 staff by Own car, 2 by Bycycle, 47 staff by Public Transport and remaining are by walk. Most of the students are coming by Public transport.

"No Vehicle Day" was declared on last Saturday of every Month. Last Saturday of every month considered as a "No Vehicle Day".



 No Vehicle Day Place – Main Campus Road
 No Vehicle Day – Main Car Parking Place

 On the Day of "No-Vehicle Day"

orosi otro



Staff and Students coming with By cycle



Staff and Students coming with By cycle



Student are entering in College by Walk



Students entering in College Campus by walk & By cycle



Free Car Campus



Free Campus – Motor Cycle Parking Place

Output of "No -Vehicle Day"

- 1. No Vehicle Day helps to avoid air pollution and sound pollution.
- 2. It also helps to save the excess burning of fossil fuels.
- 3. It also protects nature from high temperature and minimum release of polluting gases.
- 4. It also responsible for increase the income of public transport.
- 5. It saves the consumption petrol and diesel of Nation.
- 6. It protects environment from air pollution.
- 7. It maintains free sound pollution and clean College campus.
- 8. Each staff and student involved in protection of Earth from air pollution.

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COPB

Dr. P. B. Teli



"Dissemination of Education through Knowledge, Science and Culture"

-Shikshanmaharshi Dr. BapujiSalunkhe



Shri Swami Vivekanand Shikshan Sanstha Kolhapur

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA TASGAON DIST- SANGLI 416 312 (Maharashtra) Phone No: (02346)250665

(Affiliated to Shivaji University, Kolhapur)

Report on

Teachers Training Workshop on "Climate Change & Sustainable Development Goals & the Role of Green Campuses & Sustainable Future"

Organised by

INTERNAL QUALITY ASSURANCE CELL

Date :14th Feb 2020



| Event: | Teachers Training Workshop |
|-----------------------|-----------------------------------|
| Organizing Department | IQAC |
| Date | 14 th Feb 2020 |
| Venue | Room No.28 |
| Total Participants | 110 |
| Male | 68 |
| Female | 42 |

Program Schedule

| "Climate Change & Sustainable Development Goals & the role of Green Campuses & Sustainable Future" In Association with Climate Reality Project India Date : 14 th February 2020 | | | | | |
|---|---|--|--|--|--|
| 9 to 10.30 am | Registration | | | | |
| 10.30 to 11.15 | Inaugural Session | | | | |
| Welcome By | Prof. (Dr.) N. A. Kulkarni | | | | |
| Key Note address by Chief Guest | Prin. Dr. Vijaya Chavan | | | | |
| Presidential Talk | Prin. Dr. Milind S. Hujare | | | | |
| Vote of Thanks By | Dr. S. K. Khade | | | | |
| 11.15 to 12.15pm | Mr. Aditya Pundir(Country Manager | | | | |
| | Topic: Climate Change: The New Reality | | | | |
| 12.15 to 1.00 pm | Dr. Nandini Deshmukh(District Manager) | | | | |
| | Topic: Sustainable Development Goals | | | | |
| 1.00 to 1.30 pm | Sheetal Antil(Sr. Project Officer) | | | | |
| | Topic: Introduction to the Green Campus | | | | |
| 1.30 to 2.15 pm | Valedictory Program | | | | |
| Closing Remarks By | Dr. (Mrs.) Alka P. Inamdar | | | | |
| Vote of Thanks By | Dr. P. B. Teli | | | | |
| | | | | | |
| 2.00 pm onwards | Lunch | | | | |

In 2006, Nobel Laureate and former U.S. Vice President Al Gore sparked an international conversation on climate change with his Academy Award-winning documentary, An Inconvenient Truth and a year later he founded The Climate Reality Project. The Climate Reality Leadership Corps has been training and empowering everyday people to become world changers – and then mobilizing them for action.

In India, *The Climate Reality Project* established in March 2008 under the aegis of Al Gore and Dr. R. K. Pachauri, India has grown from its original ambit of spreading climate change awareness through presentations to developing new content on India specific climate change impacts & solutions. In order to leverage action on climate change, we are working with teachers & students of the various schools in India to take the message of climate change deeper into the classrooms to garner awareness & action

The Climate Project Foundation is host to the Indian chapter of Nobel Laureate and former Vice President Al Gore's climate change leadership program, The Climate Reality Project. Its mission is to educate the public about the harmful effects of climate change and to work toward solutions at a grassroots level worldwide.

Climate Reality supports more than 10,000 diverse and dedicated volunteers worldwide who have been personally trained by Al Gore to deliver clear and concise presentations on impacts of and solutions to climate crisis. These Presenters have delivered 70,000 presentations and have reached a combined global audience of more than 7.3 million people, sharing our message that the climate crisis is real and the time to act is now. Presentations can be requested free of charge by any size group or organization.

The Climate Reality Project has branches in 10 countries and presence in more than 130 countries.

Al Gore & Indian Sustainability Experts Lead Climate Reality Leadership Corps Training in New Delhi.

Former U.S. Vice President Al Gore and other experts train more than 450 new Climate Reality Leaders in New Delhi.

New Delhi, India (February 23, 2015) – The Climate Reality Project announced today that high-profile leaders in renewable energy are joining former U.S. Vice President Al Gore in New Delhi to train more than 450 new Climate Reality Leaders.

Participants in the training learn about the science of climate change and solutions for the climate crisis while developing skills to effectively communicate about both the challenges and opportunities.

Now a days, Deforestation, Use of more Vehicles, irregularity of rainfall cause the water and soil pollution, air pollution and flood etc. so many problems are facing the society, Industrialization releases green house gases, these gases are responsible for increase of Earth temperature and due to high temperature the affect on biodiversity of the earth. During Teachers Training Workshop on Climate Change, All the Resources persons provide good message about climate change, their effects on health, environment, Biodiversity through their presentation to all participants. Due this Training program we are all participants are appreciated their thoughts and ideas.

The Teachers Training Workshop was held on 14thFebruary, 2020. The registration was sharply started at 9.00 am and closed at 10.30 am.



Registration

The inaugural function was started at 10.30 am and ends at 11.15 am. The Welcome Programme was started with Addition of Water to Plants By Chief Guest Mr. Aditya Pundir, Prin. Dr. Vijaya Chavan, Prin. Dr. Milind S. Hujare, Prof. Dr. Nandini Deshmukh, Prof. Dr. N. A. Kulkarni and Dr. P. B. Teli.



Inaugural Function



All the Dignitaries on dais Welcomed by Prof. (Dr.) N.A. Kulkarni.





All the Dignitaries Felicitated By Prin. Dr. Milind S. Hujare

Welcome and Felicitation of Chief Guest and Resource Person



Welcome address by Prin. Dr.Milind Hujare



Precedential Address by Prin. Dr.Vijaya Chavan

Presidential talk was given by principal of our college Dr. Milind. S. Hujare. Principal said the climate changes indirectly affect the human social life and causes flood that we faced on last year at Krishna river bank in western Maharashtra. He also emphasized the importance of goals of sustainable development. Prin. Dr. Milind Hujare shared the initiatives taken by P.D.V.P. College under Green Campus program.

The key note address lecture was delivered by chief guest Principal Dr. Vijaya Chavan. She gave talk on current environmental issue and their side effect on biodiversity. The responsibility of human being and his behavior for the sustainable development has been explained in detail.

Technical Session-I was started 11.15 am by the Resource Person Mr. Aditya Pundir on Climate change: The Climate Reality India. He said root of climate change is human beings and we have to prevent or the control the changes in climate by taking initiative and to solve the mother earth and lives of human being on the earth.



Key note address by Chief Guest

Expert Talk in technical session I

Session –**II** started at12.15pm by Dr. Nandini Deshmukh. She delivered a lecture on Sustainable goals of the organization. She talks on the 17 goals. She said climate change affects the social human life and explain the goals number '13' that is increases the **valley** between poor and rich peoples.



Expert Talk in technical session II

Expert Talk in technical session III

Session –**III** was started at 1.00pm by Sheetal Antil. She gives a talk on Green Campus. She divided a green campus program into work, awareness, action, awards and benefits of green campus program. She gives information about the organization, contacts, quizzes and Competition.

Session - IV was Group Discussion. During Group Discussion session Dr. Nandini Deshmukh selected Two Participants as a Judges of this Session. All participants are grouped into 9 groups. After Completion of group discussion, one of the each group leader speaks on stage about Climate change. Out of Nine group, One group was Win, declared by Judges and felicitated by Aditya Pundir and Judges.



Discussion of Resource person with participants



Participants opinion





Participants opinion



Participants opinion



Group Discussion Award Winner Dr. Padmashri Waghmare Felicitated By Aakash Bhosale

At 1.30pm Valedictory program was started. The whole program was summarized by Dr. Mrs. Alka P. Inamdar. She has reviewed the whole day with respect to each and every topic discussed by the expert talks in their lectures. As well as she noticed some of the issues which we people should do in academic environment with the help of students to encourage them with trees, plantation, and some steps to save nature, save plants etc....Because "Plantation is the only solution for dilution of pollution."





Introductory speech by Dr. Mrs.Alka P. Inamdar

Felicitation of organizing secretary Dr. P. B. Teli



Opinion of participant by Dr. Sunil kamble



Vote of Thanks by Dr. P. B. Teli



PARTICIPANTS IN TEACHERS TRAINING WORKSHOP

Outcome: The Teachers Training Workshop was fruitfully to the Teachers and awareness is created among the participants about climate change and importance of Green campuses.

COPB

Dr. P. B. Teli Organizing Secretary

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Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist.- Sangli, Maharashtra Teachers Training Workshop on "Climate Change & Sustainable Development Goals & the role of Grees Campuses for Safer Planet and a Sustainable Future" Date: 14/02/2020

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माणदेश् एक्सप्रेस

वातावरणातील बदलामुळे नैसर्गिक आपत्तीचा धोका

प्राचार्य डॉ. मिलिंद हुजरे

मालदेश एक्सप्रेम भ्यूज

तासगाथ : महापुराचे फैनान आपग अनुमधले असून दुष्काळाणी आपण अनेक वर्ष सामना करीत जगत आहे. कथी अपमाळी पाऊस वर कपी दुष्काळ अमी स्थिती सच्या अमलेली दिसून येते. प्रदूषण आणि बातावरणातील बदलागुळे नैसर्गिक आपसीचा धोचत आहे असे उद्यार प्राचार्य डॉ.मिलिट हुतरे कांनी पद्यभूषण डॉ.वमंतरावक्षदा पार्टील महाविद्यालय सामगाय देखे प्राणीशास्त्र विभागाच्या वलीने आयोजित केलेल्या 'वालावरणातील बदल आणि शासन विकास' या विषयायर उसयोजित केलेल्या एक दिवसीय फार्यशाळेल बोलताना काढले. या कार्यसालेचे उद्घाटन सी चित्रपसिंह पादव आर्टम् औद्य सायन्स कॉलेज पेठवडमायच्या प्राचार्म हो विजया चव्हाण वांनी केले. बाबेळी बोलताना त्या म्हणाल्या, पाणूम



'वानावरणातील बदल आणि शाश्चन विकास' या विषयावर कार्यवाळेन बोलताना प्राथ्यार्थ डॉ. मिनिंदहजरे

विये पोठांचला निये प्रदूषण झाले. निस्तर्गाच्या आणि निस्तर्गातील साधनसंपत्तीचा जडस मानवामुळे होत आहे हे विविध उदाहरणांनी त्यांनी पटवून दिले. क्लाव्यांट रिऑलिटी प्रोजेक्ट इंडिया, दिद्वी येथून आलेले कंट्री मॅनेक आदित्य पुर्वोद्द वांनी नैसर्गिक आपलीक पागेहर्शन केले प्रक्रम क्योपूर्वीची वीरस्थिती आणि सप्ताच्या पीरस्थितीचा तुलनात्मक अम्पास गांडला. वी.मंदिनी देशमुख यांनी जावत विकासाची सतरा मूल्ये व त्यामध्ये असगारी मुसंगती विषद करूम वा मूल्यांची वोपासना करण्यासाठी मानवाने पुढाकार पेण्याचे आयतान केले. कु.विताल अंटील सांनी प्रीन संगलकबढ्लाचे वार्गदर्शन केले. या कार्यमाठोलील प्रत्येक विश्वाफोनी बातावरणातील बदल वार्विषयी आपापली मंते मांडली. या कार्यक्रमगचा आग्राया डॉ. अलका इनामदार योगी येतला.

कार्यक्रमाचे प्रास्ताविक डॉ.सरेंद्र कुलकणी यांगी केले तर आभार करणेक्रम समन्वयक डॉ.पी.ची.तेली यांनी मानले. कार्यक्रमाचे मुक्सधालन डॉ.मंकर खांडे यांनी केले. कार्यक्रमाला गॅक सान्वयक डॉ.एस.एस. पाटील, जा.जी.ल. पाखरे, डॉ.जाली पाटील, जा.जी.ल. पाखरे, डॉ.जाली पाटील, प्रा.डी.चाय. साखरे, डॉ.जाली पाटील, प्रा.डी.चाय. साखरे, डॉ.जालेन सोलवले, प्रा.डी.चाय. साखरे, डॉ.जालेन सोलवले, प्रा.डी.चाय. साखरे, डॉ.जालेन सोलवले, प्रा.डी.चाय. साफ्से, डॉ.टी.के.बदाने यांच्यांक्र प्राध्यापक, विद्याची-फिलाचिंगी, विश्वलेतर कार्यचाठी मोठ्या संखरेने उपस्थित होते.

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वातावरणातील बदलांमुळेच नैसर्गिक आपत्ती : प्राचार्य डॉ. हुजरे

तासगावच्या वसंतदादा महाविद्यालयात कार्यशाळा

तासगाव : पुढारी वृत्तसेवा

प्रदूषण आणि वातावरणातील बदलांमुळेच नैसर्गिक आपत्तीचा धोका निर्माण झाला आहे, असे प्रतिपादन प्राचार्य डॉ. मिलिंद हुजरे यांनी केले.

पद्मभूषण डॉ. वसंतरावदादा पाटील महाविद्यालयात प्राणीशास्त्र विभागाच्यावतीने आयोजित 'वातावरणातील बदल आणि शाश्चत विकास' या विषयावर कार्यशाळेत ते बोलत होते.

कार्यशाळेचे उद्धाटन पेठवडगाव वेथील विजयसिंह यादव आर्टस् अँड सायन्स महाविद्यालयाच्या प्राचार्या डॉ. विजया चव्हाण यांच्याहस्ते करण्यात आले. प्राचार्य डॉ. हुजरे म्हणाले, महापुराचे थैमान आपण अनुभवले आहे. दुष्काळाशी आपण अनेक वर्षे सामना करीत आहोत. कथी अवकाळी पाऊस तर कथी दुष्काळ स्थिती दिसून येते. याला निसर्गात झालेले बदल कारणीभूत आहेत.



तासगाव : वसंतदादा महाविद्यालयात 'वातावरणातील बदल आणि शाश्चत विकास' या विषयावर एकदिवसीय कार्यशाळेत मार्गदर्शन करताना प्राचार्य डॉ. मिलिंद हुजरे.

माणूस जिथे पोहोचला तिथे प्रदूषण झाले. निसर्गाच्या आणि निसर्गातील साधनसंपत्तीचा ऱ्हास मानवामुळे होत आहे. दिल्ली येथील क्लायमेट रिऑलिटी पोजेक्ट इंडियाचे आदित्य पुनदीर यांचेही भाषण झाले.

प्रास्ताविक डॉ. नरेंद्र कुलकर्णी यांनी केले. आभार डॉ. पी. बी. तेली यांनी मानले. सूत्रसंचालन डॉ. शंकर रखाडे यांनी केले

प्राचार्या डॉ. चव्हाण म्हणाल्या,

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"ज्ञान विज्ञान आणि युसंस्कार यांसाठी किसणासाठी प्रसार" .किसणमहणी डॉ.बापूजी साळुंखे

पद्मभूषण डॉ.वसंतरावदादा पाटील महाविद्यालय,तासगाव.

विनांक -१३/०२/२०१९

नोटीस

महाविद्यलयातील सर्व सिनिअर व ज्युनिअर मधील प्राच्यापकांना कळविण्यात येते की आपल्या महाविद्यालयामध्ये शुक्रवार दिनांक १४/०२/२०२० रोजी सकाळी ९.०० वा. Climate Change & Sustainable Development Goals & the Role of Green Campuses for Safer Planet & a Sustainable Future या विषयावर एक दिवसीय शिक्षकासाठी कार्यशाळा अयोजित केली आहे. सदर कार्यशाळेसाठी ज्या प्राध्यापकांनी नोंद केलेली आहे त्यांनी रूम नंबर २८ मध्ये उपस्थित रहावे.

Hammen

(डॉ. मिस्लिद एस. हुजरे.) प्राचार्य ''पभूषण डॉ. वसंतराबदादा पार्टील , जेवेद्यालय, तासगांव (जि. सांगला.)





'Dissemination of Education through Knowledge, Science and Culture'-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

PADMABHUSHAN Dr. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

Tal. Tasgaon, Dist.: Sangli.

DEPARTMET OF COMMERCE





| Title of Programme | Training Program on Aurvedik Sugandhi Uthane |
|-----------------------|---|
| Organizing Department | DEPARTMENT OF COMMERCE |
| Collaboration with | - |
| Date | 14 th October, 2019. |
| Venue | ROOM NO. 28 |
| No. of Participants | 21, Male: 07, Female: 09 |
| | Teachers : Male: 02, Female: 03 |

The use of ubtan powder for cleansing and bathing is being mentioned in the treasures of ayurveda since ages. During this festive season of Diwali having the bath with ubtan is considered to be auspicious and termed as "Abhyang Snan". ABHYANG Ayurvedic ubtan powder is used to remove dirt, greasiness and dead cells and protect the skin from skin ailments.

In order to create interest in entrepreneurship among the students and considering the importance of Aurvedik Sugandhi Uthane in Diwali Festival, the Commerce Department conducted a training program on Aurvedik Sugandhi Uthane. It showed the students the actual process of making Sugandhi Uthane. The students actually sold the created Aurvedik Sugandhi Uthane in the society.

| मसूर डाळ पीठ | नागरमोथा |
|--------------|-----------------|
| आवळा पावडर | वाळा |
| आंबेहळद | जटामासी |
| वेखंड | सुगंधी कचोरा |
| बावची | मरवा |
| अनंतमूळ | घुलाब कळी पावडर |


Inauguration Ceremony of Aurvedik Sugandhi Uthane by The Prin. Dr. Milind Hujare.



All Participants With Principal Dr. Milind Hujare.

Dr. A. G. Sonawale Head, Department of Commerce

Participants Students List 2019-20

| Class: B.Com. II | | |
|------------------|--------|----------------------------|
| Sr. No | GENDER | NAME OF THE STUDENT |
| 1 | SHRI | BANASAVADE DATTATRAY ASHOK |
| 2 | SHRI | RENDALKAR VIJAY YUVRAJ |
| 3 | SHRI | INGAWALE PRATIK DIPAK |
| 4 | SHRI | SUTAR SUSHANT SHIVAJI |
| 5 | SHRI | PAWAR NILESH NAMDEV |
| 6 | SHRI | SAWANT VAIBHAV SHASHIKANT |
| 7 | SHRI | WAGH INDRAJIT SUDHAKAR |
| 8 | MISS | KOKANE PALLAVI RAVINDRA |
| 9 | MISS | BODARE PRAJAKTA UTTAM |
| 10 | MISS | CHAVAN POOJA BAPURAO |
| 11 | MISS | GAIKWAD RUTUJA JAYANT |
| 12 | MISS | GURAV ASHWINI PANDIT |
| 13 | MISS | PATIL SNEHAL GOVIND |
| 14 | MISS | HINGMIRE SHRADDHA SUNIL |
| 15 | MISS | KAMBLE NISHA ANANDA |
| 16 | MISS | KARMARKAR DIVYA DAMODAR |
| Teachers Name | | |
| 17 | | DR. SONAWALE A.G. |
| 18 | | MR. PATIL G.R. |
| 19 | | MISS. CHAVAN P.C. |
| 20 | | MISS. SALUNKHE P.B. |
| 21 | | MISS. PATIL S.S. |

Dr. Alka Inamdar IOAC & NAAC Coontinator IQAC Co-Ordinator, PD V P Mahavidyalaya. Tasgaon - Kerren

Dr. Amol Sonawale HOD. Complex Dourgent Department of Commerce P.D.V.P.College, Tasgaon.

Promume De Milind Hujare Principal

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon. (Sangli)