"Dissemination of Education through Knowledge, Science and Culture". --Shikshanmaharshi Dr. Bapuji Salunkhe. Shri. Swami Vivekanand Shikshan Sanstha's

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli – 416312, Maharashtra

#### REPORT OF WORKSHOP ON WORLDS WETLAND DAY (02 February 2017)





#### Wetlands for Disaster Risk Reduction

#### **Department of Botany**

Report on Workshop on World Wetlands Day 02 February 2017

Activity	World Wetland Day 2 <sup>nd</sup> February 2017
Chief Guest	Dr. Niranjana S. Chavan Department of Botany, Shivaji University, Kolhapur
President	Dr. Ramesh R. Kumbhar, Principal, P.D.V.P. Mahavidyalaya, tasgaon
Participants	<b>168</b> Male: 68 and Female: 100

Date: 27th January 2017.

To, The Principal, P.D.V.P. Mahavidyalaya, Tasgaon.

Subject: Regarding the permission for Guest Lecture

#### Respected Sir,

I wish to organize a guest lecture and inauguration of wallpaper on the occasion of "International Wetland Day" on 2<sup>nd</sup> February 2017 to invite Dr. N. S. Chavan, Professor, Dept. of Botany, Shivaji University, Kolhapur to share her academic and research experience with the students. So please grant permission for the same.

Thanking you,

Yours faithfully,

(Dr. A. A. Patil)

HEAD DEPARTMENT OF BOTANY PADMABHUSHAN DR. VASANTRAO DADA DAT MAHAVIDYLAYA, TASGAON, DASI ...

Aflased pr 1.2.17

#### Department of Botany



Ref. No.: PDVPMT/2455/16-17

To,

Date: 31/01/2017

N.

1

Dr. N. S. Chavan Professor, Dept. of Botany,

Shivaji University, Kolhapur.

#### Sub. : Invitation as a Guest Speaker

Resp. Madam,

It gives us immense pleasure to invite you on the occasion of "International Wetland Day" on 2<sup>nd</sup> February 2017 as a Guest Speaker to share your academic and research experience with the students.

Thanking you,

Yours sincerely,

Dr. R. R. Kumbhar

Principal Padmabhushan Dr. Vasantraodada Tavi Manavidyalaya Tagrada (Sangalu) Su

"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार'' -शिक्षणमहर्षी डॉ. बाप्जी साळ्छे					
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDVALAVA, TASCAON (DIST SANGLD)					
International	Wetland Day				
<b>02<sup>nd</sup> February 2017</b> PROGRAMME SCHEDULE					
*Watering the Plant	:Auspicious Hands of Guests				
Welcome and Introduction of Guests	: Dr. A. A. Patil				
*Chief Guest	: Dr. N. S. Chavan, Professor, Dept. of Botany, Shivaji University, Kolhapur				
* President	: Prin. Dr. R. R. Kumbhar				
*Vote of Thanks	: Dr. B. T. Dangat				

This "World Wetlands Day" which is celebrated on 2<sup>nd</sup> of February, we celebrate Flamingos and their Wetlands. This date marks the signing of the 'Convention on Wetlands' in 1971 at Ramsar, Iran.

Wetlands are essential ecological features in any landscape as they are home to hundreds of species of birds along with fishes, mammals and insects. Earth planet is slowly losing its wetlands which are home to the large hydrophytes, mangrove stretches- the storm dividers for the coastal lands. It's time we create awareness about the wetlands and its inhabitants on this eco-day. Therefore this is a call to all teachers, parents and students who believe in this cause and would like to help us in developing an Educational and Innovative work on Wetlands.

Report on Workshop on World Wetlands Day 02 February 2017

#### WHY WORLD WETLANDS DAY IS CELEBRATED

The Ramsar Convention offers an international structure in order to globally support the conservation and sustainable management of the wetlands. It is celebrated to make aware the public, discuss the value of wetlands, its beneficial aspects as well as to promote its conservation and use for enhancing the overall level of the human health, growth, and development.

The event celebration plays a great role in making healthy wetlands in order to deliver the worth ecosystem service to benefit the common people. The demands of water required for growing crops, energy supply and various needs of the industry are also focused during the celebration. It is celebrated to promote the proper use of wetlands and their resources.

It is also celebrated at the WWF-India Secretariat, New Delhi to promote the common people understandings about the importance of the link between wetlands and water as "without water there will be no wetlands – and without wetlands, there will be no water!"

#### Session I: Wall Paper Activity on World Wetlands Day

The faculty of Botany department has inspired to B. Sc. III students of Botany to display a wall paper on the occasion of World Wetland Day 2017 on 2<sup>nd</sup> February 2017.

Dr. Niranjana S. Chavan, Professor, Department of Botany, Shivaji University, Kolhapur and Dr. Ramesh R. Kumbhar, Principal of this college were the Chief Guests for the inauguration of the wall paper. In the wall paper, functions of wetlands, various benefits, associated services of wetlands and a need of conservation of wetlands were introduced in detail to aware the students of the college.





#### Session II: Lecture of Recourse person on World Wetlands Day

The programme was inaugurated by watering the plant by the hands of Dr. Niranjana S. Chavan, Professor, Department of Botany, Shivaji University, Kolhapur and Dr. Ramesh R. Kumbhar, Principal of this college and Dr. Alka P. Inamdr organizer of the function, Head of the Botany department. This event is important to give message the students to grow and protect our saviours the plants by nourishing them with water.

#### Department of Botany



Report on Workshop on World Wetlands Day 02 February 2017



Dr. Alka P. Inamdr has given the introductory speech of the function and research work on wetlands of chief guest.

Dr. Niranjana S. Chavan kindly consented to be the Chief Guest at this occasion. Her gracious presence was a true inspiration to the students. Principal Dr. Ramesh R. Kumbhar has offered her floral welcome

#### Department of Botany





Chief Guest Dr. Niranjana S. Chavan, Professor, Department of Botany, Shivaji University Kolhapur has delivered an informative speech on wetlands and its conservation. She has focused mainly the classification of wetlands, their

Report on Workshop on World Wetlands Day 02 February 2017

characteristics, key attributes of wetlands, their deterioration and need of its conservation.





Principal Dr. Ramesh R. Kumbhar in his presidential address suggested the role of students to protect and conserve the nature as a natural heritage.

Report on Workshop on World Wetlands Day 02 February 2017



The function was concluded by the vote of thanks given by Dr. Bhaurao T. Dangat, Assistant Professor of Botany.

168 students of B. Sc. and science faculty were participated in this programme



Dr. Alka P. Inamdr Head, Department of Botany

	''ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार'' – शिक्षण महर्षी प. पू. डॉ. बापूजी साळुंखे Sbri Swami Vivekapand Shikshan Sanstha, Kolhapur			2	
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### PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

(DIST. SANGLI)

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#### PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

(DIST. SANGLI)

**CLASS ROOM ATTENDANCE SHEET** 

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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 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.

### **INDEX OF THE PLANTS**

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2	<u>Albizia lebbeck</u>	Shirish	6
3	<u>Bauhinia variegata</u>	Aapata	7
4	<u>Casuarina equisetifolia</u>	Suru	8
5	<u>Cedrela toona</u>	Cedrela	9
6	<u>Chorisia speciosa</u>	Chorisia	10
7	<u>Delonix regia</u>	Gulmohor	11
8	<u>Ficus religiosa</u>	Vad	12
9	Pithecellobium dulce	Vilayati Chinch	13
10	<u>Santalum album</u>	Sandalwood	14
11	<u>Mangifera indica</u>	Mango	15
12	<u>Ficus racemosa</u>	Anjeer	16
13	<u>Cocos nucifera</u>	Coconut	17,18
14	<u>Eucalyptus globulus</u>	Nilgiri	19
15	<u>Grevillea robusta</u>	Silver oak	20
16	<u>Hyophorbe lagenicaulis</u>	Bottle palm	21
17	<u>Azadirachta indica</u>	Neem	22,23
18	<u>Mimusops elengi</u>	Bakul	24
19	<u>Plumeria alba</u>	Pandhara chapha	25
20	<u>Terminalia catappa</u>	Badam	26,27
21	<u>Alstonia scholaris</u>	Saptaparni	28,29
22	<u>Neolamarckia cadamba</u>	Kadamb	30,31
23	<u>Cycus revoluta</u>	Cycus	32,33
24	<u>Syzygium cumini</u>	Jambhul	34,35
25	<u>Millingtonia hortensis</u>	Buchache zad	36,37
26	<u>Muntingia calabura</u>	Cherry	38,39

27	Polyalthia longifolia	Ashok	40,41
28	<u>Millettia pinnata</u>	Karanj	42 to 44
29	<u>Thespesia populnea</u>	Gulbhendi	45

# 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	<i>Delonix regia</i> (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.





Flowers of Azadirachta indica

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.<sup>[10]</sup> 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 for Knowledge, Science, and Culture" -Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha, Kolhapur

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

# **DEPARTMENT OF BOTANY**

Exhibition and Competition of Wild Vegetable Recipes

D&TE: 19/08/2017

Organizing	Botany			
Department				
Date	19/08/2017			
Duration	01Day			
Activity	Exhibition and			
	Competition of Wild			
	Vegetables			
Participants		Male	Female	Total
	Students	09	21	30
	Faculty	04		04

#### Aims and Objective of the activity

\*To create awareness about wild vegetables.

\*To know the medicinal properties of the wild vegetables.

\*To conserve the vanishing wild vegetables.

\*To conserve the rural culture.

\*To provide natural taste of the nature.

\*To link the old and new generations.

\*To develop cooking art among the students.

#### Number of visitors: More than 500

Visitors comments: Recorded in visitor book.

#### DEPARTMENT OF BOTANY NOTICE

All the students are hereby informed that an exhibition and competition of wild vegetables has been arranged in the department of Botany on 19/08/2017 from 11.00 to 4.00 pm. All the students are requested to bring their preparations and recipes before half an hour of the exhibition. Three winners will be selected by an expert team.

Date: 14/08/2017

Venue: Department of Botany

(Dr.N.A.Kulkarni) HEAD DEPARTMENT OF BOTANY PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYLAYA, TASGAON, DAST. SANGLI

(Dr.R.R.Kumbhar)

#### List of the Participants

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#### EXHIBITION AND COMPETITION OF WILD VEGETABLES



Inaugaration of the Exhibition by Dr.V.Y.Pawar and Dr.S.R.Jadhav





Visitors during the Exhibition





Vísítors during the Exhibition





Varíous Recípes presented during the Visitors during the Exhibition



Various Recipes presented during the Visitors during the Exhibition





Varíous Recípes presented during the Visitors during the Exhibition





Various Recipes presented during the Visitors during the Exhibition



Visitors during the Exhibition

#### Feedback of the visitors

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Mr. M. S. Mahale Entensiastic move toward Dept. of Euglish. bringing an awareness among Students of our nature and 1to importance in our health maintainance Dept. of chem ष्तुपच छान उपक्रमाचे आर्यानन केले आहे. Dr.S.D. Jadhav काकेगळ्या भाज्यांचे प्रकार पारायला त \$ - पारवाश्वमा मिळाले. दुमिळ भाज्या त्थांपायून all ladies staff. वनविलेले पदार्थ अत्यंत छान व-चविष्ट - Jadhow\_ वनविले होते. आरोग्यासाही उपयुक्त भाज्या होत्या. Vaibhan Suryawanshe Nice decoration. & Sagar Nikam. Nice variety of foods with nice Miss shakh J.K. plate presentations Tasty & Miss. Yadav P.s Miss Bhandani P.S. Spicy Foods. AS वनक्धती शास्त विभागाने राष विक्ते का हा मा. माने एम-यामः अफाम खरोखरच खूप छान आहे. आपल्या जनकणास असमा चा क्रिमीती वनन्याती आवलाम्ला आरारान वापरना रोतान् के यह मन परश्तिामुके सम्पन के त्यान्य करोबर विसाधार्जी दवतः भाज्या उनविल्याचे जालकर् फारटफुडच्या जमान्यात अयल्या यरिसरातील 114 4 3. 3. A. 25 132 M माज्यानं - होग्ह उनस्मन्यान्यं उनायल्यान्त् रतमजाते या उपक्रास्ताही रवूप रूप रहा हो। अशायकारने BUAH
allene in F. Jacob All dishes are very good जायव निवेदिताः (B.Sc-III) 3 tasty. All dishes are good and Mane Swapnali (B. Sc. III) decorated very beautifull. Dr. P. B. Tei Nice attempt for conservation pare & wild regetables so their receipy. 2017

## Prize Winners of the Exhibition



Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon 22<sup>nd</sup> May 2021

"Dissemination of Education through Knowledge, Science and Culture". --Shikshanmaharshi Dr. Bapuji Salunkhe





# DEPARTMENT OF BOTANY AND IQAC



22<sup>nd</sup> May 2021



## Title of the Webinar:

## **Biodiversity and Conservation for Sustainable** Society

**Organizer: Department of Botany** and Internal Quality Assurance cell (IQAC) PDVP College, Tasgaon

Platform Google meet

Time: 11.30am to 02.30 pm

Total Number of Participants: 117

Total Number of Faculty Participants: 44

Total Number of Student Participants: 73

The publicity of the webinar was done on WhatsApp group of faculty and students and created a separate Group entitled "National Webinar 2/7/20". Participants were added in the respective group via invited link.

#### Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon 22

22<sup>nd</sup> May 2021





**Organizing Secretory and** 

4

IOAC Co-cordinator

Report on National Webinar on Biodiversity and Conservation for Sustainable Society



The first step in winning your audience's attention with your webinar is delivering a strong, confident introduction. Such introductory speech was given by Dr. Alka P. Inamdr, Director, IQAC and Convenor of this National Webinar.

![](_page_78_Picture_0.jpeg)

## Introductory speech by Dr. Alka P. Inamdr Convenor of the Webinar (IQAC Director)

Guest speakers and presenters on webinars are an invaluable resource.

Not only they can help to create some amazing content, speakers can live up a webinar and drive real engagement with the audience.

![](_page_78_Picture_4.jpeg)

## Speech Delivered by Chief Guest Dr. B. S. Ravikumar

Report on National Webinar on Biodiversity and Conservation for Sustainable Society

22<sup>nd</sup> May 2021

![](_page_79_Picture_2.jpeg)

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon 22<sup>nd</sup>

22<sup>nd</sup> May 2021

![](_page_80_Picture_2.jpeg)

Such Presidential speech was given by Principal of our college Dr. Milind S. Hujare Sir. In his talk he elaborated that, we should preserve every scrap of biodiversity as priceless while we learn to use it and come to understand what it means to humanity. Report on National Webinar on Biodiversity and Conservation for Sustainable Society 8

![](_page_81_Picture_0.jpeg)

# Presidential Speech Delivered by Principal Dr. Milind Hujare

On behalf of entire team of organiser and Principal of Dr M. S. Hujare Sir, Prof Dr Jeevan Ghodake extend a very hearty vote of thanks to speaker Dr Shekhar Mohite and participants.

![](_page_81_Picture_3.jpeg)

## Vote of thanks by Prof Dr Jeeven Ghodake, Organizing Secretory of the Webinar

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Report on National Webinar on Biodiversity and Conservation for Sustainable Society

![](_page_82_Picture_0.jpeg)

## **Technical Assistance by Sachinkumar Shinde**

### Feedback from participants: -

**Feedback session** helps the faculty or student to express their ideas, thoughts and feelings. These **sessions** help in identifying ways to resolve problems and identify ways to improve the performance of the work force. It enhances team spirit, cohesion, develops motivation and inspiration among the work force.

![](_page_82_Picture_4.jpeg)

![](_page_83_Figure_0.jpeg)

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## Sample certificate....

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"Dissemination of Education through Knowledge, Science and Culture" -Shikshanmaharshi Dr. Bapuji Sahu Shri, Swami Vivekanand Shikshan Sanstha Kolhapur's Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Sangli-416312, Maharashtra, India (Affiliated to Shivaji University Kolhapur)

## CERTIFICATE

This is to certify that *Dr. Alka Inamdr* of PDVP College Tasgaon

has participated in National Level Webinar on **"Biodiversity and Conservation for Sustainable Society"** on **occasion of International Biological Diversity Day** Organized by Department of Botany and Internal Quality Assurance Cell (IQAC). Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon on Saturday, **22/05/2021**.

Certificate id: DESXQK-CE000002

Dr. Jeevan S. Ghodake Organizing Secretary

Dr. Alka P. Inamdr Convenor & IQAC - Director

laummin

Dr. Milind S. Hujare <u>Principal</u> Made for free with Certify'em

### **News Paper release...**

हावीर वि

यांनी ता त केंदाची

# शाश्वत विकासासाठी जैव विविधतेचे संवर्धन आवश्यक

तरुण भारत

पी.डी.व्ही.पी. महाविद्यालयात राष्ट्रीय वेबिनारचे आयोजन

प्रतिनिधी तासगाव • मानवाच्या शाश्वत विकासासाठी पृथ्वीवरील प्रत्येक

बरशीजन्य

वनस्पती. वनस्पती

अध्यक्ष स्थानावरून प्राचार्य बोलताना डॉ. मिलिंद. यांनी हजरे जागतिक पातळीवरील जैवविविधतेचा आढावा घेऊन जैव विविधतेच्या

हिस्त्र प्राणी, कीटक, सरपटणारे , हासाची कारणे व त्यांचे दुष्परिणाम जीव, पक्षी, उभयचर प्राणी असे सर्व प्रकारचे जीव खुप महत्वाचे जैवविविधतेचे आहेत. 'या सर्व संवर्धन करणे आवश्यक असल्याचे मत प्रा. डॉ. राविकुमार यांनी व्यक्त केले

वसंतरावदादा पाटील महाविद्यालयात शनिवारी जागतिक जैवविविधता दिन निमित्त आयोजित वेबिनार प्रसंगी ते बोलत होते. ते पुढे म्हणाले मानव हा या सर्व वनस्पती आणि प्राण्यांच्या जगण्यानेच समुध्द आहे. या शाश्वत विकासासाठी जैवविविधतेचे संवर्धन करणे अत्यंत गरजेचे आहे. जैवविविधते मुळेच पर्यावरणाचा समतोल राखला जातो. कार्यक्रमाच्या विशद केले. राष्टसंघाने स्थापित संयुक्त केलेल्या व २०३० पर्यंत साध्य करण्याचे उद्दिष्ट असलेल्या ध्येयामध्ये महत्व असल्याचे त्यांनी सांगितले. या वेबिनारमध्ये महाराष्ट वं कर्नाटकातील अनेक विद्यार्थी प्राध्यापक संशोधक सहभागी झाले होते. वेबिनारचे संयोजन नॅक समन्वयक डॉ. अलका इनामदार, डॉ. जीवन घोडके, डॉ. सचिन शिंदे, वनस्पतीशास्त्र विभाग, प्रा. आण्णासाहेब बागल यांनी केले. कार्यक्रमाचे प्रास्ताविक व सूत्रसंचालन डॉ. अलका इनामदार यांनी केले तर आभार प्रा. डॉ. जीवन घोडके यांनी मानले

शाश्वत विकासाच्या जैवविविधतेचे येथील पद्मभूषण डॉ.

22<sup>nd</sup> May 2021

![](_page_91_Picture_2.jpeg)

# जैवविविधतेचे संवर्धन करा : डॉ. रविकुमार तासगाव महाविद्यालयात जैवविविधतादिन

#### तासगाव : पुढारी वृत्तसेवा

मानवाच्या शाश्वत विकासासाठी जैवविविधतेचे संवर्धन करणे आवश्यक आहे, असे प्रतिपादन प्रा. डॉ. रविकुमार यांनी केले. ते तासगाव येथील पद्मभूषण डॉ. वसंतरावदादा पाटील महाविद्यालयात आयोजित जागतिक जैवविविधता दिनानिमित्त आयोजित वेबिनारमध्ये बोलत होते.

ते म्हणाले, पृथ्वीवरील प्रत्येक वनस्पती, बुरशीजन्य वनस्पती, हिंस्त्र प्राणी, कीटक, सरपटणारे जीव, पक्षी, उभयचर प्राणी असे सर्व प्रकारचे जीव खूप महत्वाचे आहेत.

मानव हा या सर्व वनस्पती आणि प्राण्यांच्या जगण्यानेच समृध्द आहे. या शाश्वत विकासासाठी जैवविविधतेचे संवर्धन करणे अत्यंत गरजेचे आहे. कार्यक्रमाच्या अध्यक्ष स्थानावरून बोलताना प्राचार्य डॉ. मिलिंद हुजरे यांनी जागतिक पातळीवरील जैवविविधतेचा आढावा घेतला. जैवविविधतेच्या ऱ्हासाची कारणे व त्यांचे दुष्परिणाम त्यांनी सांगितले.

या वेबिनारमध्ये महाराष्ट्र व कर्नाटकातील अनेक विद्यार्थी, प्राध्यापक, संशोधक सहभागी झाले होते. वेबिनारचे संयोजन नॅक समन्वयक डॉ. अलका इनामदार, डॉ. जीवन घोडके, डॉ. सचिन शिंदे, वनस्पतीशास्त्र विभाग प्रा. आण्णासाहेब बागल यांनी केले. प्रास्ताविक डॉ. अलका इनामदार यांनी केले. आभार प्रा. डॉ. जीवन घोडके यांनी मानले.

My Sangli Edition May 25, 2021 Page No. 4 newspaper.pudhari.co.in

Alka Inama

Dr. Alka Inamdr Director, IQAC and Dept. of Botany Convenor, National Webinar

Report on National Webinar on Biodiversity and Conservation for Sustainable Society 19

"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-	<b>Report of "One day workshop on</b> "Vermicomposting Bitotechnology"
Date	27 <sup>th</sup> / 12/2018
Number of participants	81
VENUE	Room No. 6

![](_page_93_Picture_0.jpeg)

जावक क्र. : पी.डी.व्ही.पी.एम.टी. / 1477 18~19

000000000000

6 060 Gria : 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, 27<sup>th</sup> 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. Vasantraodada Path Mahavidvalaya Tasgeon: (Sanglia

![](_page_94_Picture_0.jpeg)

जावक क्र. : पी.डी.व्ही.पी.एम.टी. / 1476 2018-19

6 060 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, 27<sup>th</sup> December 2018.

We therefore request you to kindly accept our invitation as "Resource Person" and oblige.

Thanking you,

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

दिनांक : 26 12/2018

![](_page_95_Picture_0.jpeg)

NAAC Reaccreditted 'B\*\*' (2.76)

''ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार'' – शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA

![](_page_95_Picture_5.jpeg)

TASGAON, Dist. Sangli, Pin- 416 312 1 - STD : 02346-250665, 250575 FAX : 250575

 Affiliated to Shivaji University, Kolhapur 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. : SI/AC/4 Jr.: C-8

Shikshanmaharshi Dr. Bapuji Salunkhe B.A., B.T., D.Litt. FOUNDER Minister of Revenue, Public Works Govt. of Maharashtra	Prin. Abhaykumar Salunkhe M.A. CHAIRMAN	Prin. Mrs. Shubhangi Gawade M.Sc. B.Ed. SECRETARY	Dr. R. R. Kumbhar M.Sc. M.Phill., Ph.D. PRINCIPAL
--	---	---	---

Ref.No. : PDVPMT /

Date : A Students Initiative, Skill Development Programme Lead College Activity **One Day Workshop for Students and Parents** 

#### On VERMICOMPOSTING BIOTECHNOLOGY

27<sup>th</sup> 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 vermiculture 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** 

Rynwade (Dr.R.M. Ganeshwade)

2 may a Convener

(Dr. S.A. Khabade)

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

"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

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 27<sup>th</sup> December 2018 .It is compulsory to all students to participate in this activity.

24 Head of Department

HEAD DEPARTMENT OF ZOOLOGY, PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA TASGAON. DIST. SANGU

## "One Day Workshop On Vermicomposting Biotechnology"

Department of Zoology,

Padmbhushan Dr. Vasantraodada Mahavidyalaya, Tasgaon, Sangli.

Programme Schedule

Day & Date : Thursday, 27<sup>th</sup> 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

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:

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Dr. S. A. Khabade (HOD) – 9822596895 Dr. R. M. Ganeshwade – 9766924683 Dr. P. B. Teli - 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.

![](_page_100_Picture_1.jpeg)

One Day workshop- vermicompositing Biotechnology- Chief Guest Dr.S.S. Patil

![](_page_100_Picture_3.jpeg)

One Day workshop- vermicompositing Biotechnology- Participents Teachers and Students.

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"Dissemination of Education through Knowledge, Science and Culture" -Shikshanmaharshi Dr. BapujiSalunkhe

Shri Swami Vivekanand Shikshan Sanstha's Kolhapur

## PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA TASGAON DIST- SANGLI 416 312 (Maharashtra) Phone No: (02346)250665

(Affiliated to Shivaji University, Kolhapur)

# **Internal Quality Assurance Cell**

# Organized

# SKILL ORIENTED TRAINING PROGRAMME FOR NON-TEACHING STAFF ON "VERMICOMPOSTING"

![](_page_106_Picture_9.jpeg)

Event:	Skill Oriented Training Programme
	for non teaching staff on
	'Vermicomposting'
Organizing	Department of Zoology and Internal Quality
Department	Assurance Cell (IQAC)
Duaration	22 <sup>nd</sup> July 2020 to 21 <sup>st</sup> August , 2020
	(30 days)
Participants	14

Padmbhushan Dr.Vasantraodada Patil Mahavidyalaya had organized a 30 days training programme, from 22<sup>nd</sup> July 2020 to 21<sup>st</sup> August , 2020 on 'Vermicomposting' to cover a total duration of 200 hours. The said training programme imparted theory as well as practical (hand-on) exposure on vermicomposting and management of organic wastes in agriculture for productivity improvement and livelihood security.

About 14 trainees (Non-teaching staff), from our college participated in the programme. Various subject matter experts from the institute covered several important aspects on relevance of vermicompost in present scenario, species diversity, biology of earthworms and their role in bio transformation of organic waste, process of earthworms inoculation and factors influencing decomposition process, water and nutrient management, care and maintenance during vermicomposting, sieving and packaging of vermicompost and relevant safety practices associated with compost making and use. All the necessary steps involved in preparation of vermicompost such as pre-treatment of organic waste, filling of bedding materials, inoculating earthworms, piling of vermicompost pit, watering, harvesting and vermiwash preparation were
practiced by the trainees themselves. Trainees were also exposed to hands on training at vermicompost unit at college campus.

The aim of training was to develop potential knowledge and skill of the trainees to carry out defined task and responsibilities related to vermicomposting. "Training is the process of acquiring specific skills to perform a job better" was main motto.. All trainees will be getting certificate. During the programme, the participants were provided with the hands-on-training of scientific vermicompost production along with the exposure to the various operations of the vermi-compost production process

. Syllabus

### UNIT 1

1. Introduction to vermiculture, definition, classification, history, economic important, their value in maintenance of soil structure.

2. Its role in bio transformation of the residues generated by human activity and production of organic fertilizers.

3. Choosing the right worm. Useful species of earthworms. Local species of earthworms. Exotic species of earthworms.

4. Biology of Pheretimaposthuma. a) Taxonomy Anatomy, physiology and reproduction. b) Vital cycle of Pheretimaposthuma: alimentation, fecundity, annual reproducer potential.

## **UNIT 2**

5. Limit factors (gases, diet, humidity, temperature, PH, light, and climatic factors). 6. Physio- chemical parameters of vermicompost 7. Different Methods of Vermicomposting: Small- and large-scale Bed method, Pit method Small Scale Earthworm farming for home gardens - Earthworm compost for home gardens 8. Conventional commercial composting - Earthworm Composting larger scale

9. Pest and diseases of earthworms. Frequent problems. How to prevent and fix them. Complementary activities of auto evaluation. 10. Nutritional Composition of Vermicompost for plants, comparison with other fertilizer.

## UNIT 3

11. Earthworm Farming (Vermiculture), Extraction (harvest), vermicomposting harvest and processing. Earthworm Farming (Vermiculture), Extraction (harvest), vermicomposting harvest and processing.

12. Vermiwash

13. Small Scale Earthworm farming for home gardens

14. Conventional commercial composting 15. Earthworm Farming (Vermiculture), Extraction (harvest), vermicomposting harvest and processing. 16. Harvesting, packaging, transport and storage of Vermicompost and separation

## PRACTICAL

- Scientific classification of Earthworm Study of external morphology of Earthworm
- Study of habit and habitat of Earhworm
- Study of Digestive system of earthworm Study of Reproduction of earthworm Vermicomposting unit Pit method
- Establishment of vermicomposting unit Bed method Establishment of vermiwash unit Vermicompost production, harvesting and packaging.
- Greenhouse media.





Bed preparation for vermicompost



Adding water for maintaining proper humidity.



# शेतकऱ्यांनी गांडूळखताची निर्मिती करावी

प्राचार्य डॉ. हुजरे : तासगाव महाविद्यालयात गांडूळखत निर्मिती प्रकल्प सुरू

#### तासगाव : पुढारी वृत्तसेवा

बदलत्या वातावरणाचा अभ्यास करून रासायनिक खतांच्या वापराला निर्बंध घातला पाहिजे. सेंद्रिय पद्धतीने शेती केली पाहिजे. त्यासाठी प्रत्येक शेतकऱ्याने स्वतः गांडूळ खत निर्माण करावे, असे प्रतिपादन प्राचार्य डॉ. मिलिंद हजरे यांनी केले.

ते तासगाव येथील पद्मभूषण डॉ. वसंतरावदादा पाटील महाविद्यालयातील प्राणीशास्त्र विभागाने सुरू केलेल्या गांडूळखत प्रकल्पाच्या उद्घाटनप्रसंगी बोलत होते.

डॉ. हुजरे म्हणाले, प्राणी शास्त्र विभागाने सुरू केलेला हा एक स्तुत्य उपक्रम आहे. महाविद्यालयाच्या परिसरातील झाडांची पाने व कचरा



तासगाव : येथे पद्मभूषण डॉ. वसंतरावदादा पाटील महाविद्यालयात प्राणी शास्त्र विभागाने सुरू केलेल्या गांडूळखत प्रकल्पाची पाहणी करताना प्राचार्य डॉ. मिलिंद हुजरे. शेजारी अन्य शिक्षक.

यापासून उत्कृष्ट गांडूळखत होऊ शकते हे त्यांनी दाखवून दिले आहे. या खताचे वाटप तासगाव परिसरातील गरजू शेतकऱ्यांना केले जाणार आहे. तसेच महाविद्यालयाच्या बागेसाठी या खताचा उपयोग केला जाणार आहे.

परिसरातील शेतकरी आणि महाविद्यालयातील सेवक वर्ग यांना प्राणी शास्त्र विभागामार्फत गांडूळखत निर्मितीचे मार्गदर्शन केले जाणार आहे.

My Sangli Edition Apr 13, 2021 Page No. 3 newspaper.pudhari.co.in Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Skill Oriented Training Programme for Non Teaching Staff on Vermicomposting

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Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Skill Oriented Training Programme for Non Teaching Staff on Vermicomposting

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Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon

Skill Oriented Training Programme for Non Teaching Staff on Vermicomposting

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	0202/8/61	ford	PINOS	Dis -	Central (	SA	prove	and the	Bae		Windy	,
	0202/8/81	find	mages	June -	(Free Borne)	AA	panel	and the second	Cor-		mat	P
	0202/8/21	South	Surren	Seal	Burd	A-	Jane	aun	well		Hund	
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	0202/8/51	Sout .	201104	Soul	Auril	AA	mut	my ver	equa		want	-
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gnature	Name	Greenlage P.S.	Selver Whe J. M.	Sappord Shashikand A	Desai . E.S.	Perwerts H. S.	mohite J. R.	Koli m K	mre 2 B		Sawant J-G.	
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