

“Dissemination of Education for Knowledge, Science, and Culture”
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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



Rauvolfia serpentina



Terminalia bellirica



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 L.f.	कंकोळ	Piperaceae	Spices
4.	Gardenia gummifera L.f.	डिकेमाली	Rubiaceae	Digestive disorder
5.	Coffea Arabica L.	कॉफी	Rubiaceae	Beverage

6.	<i>Couroupita guianensis</i> Aubl.	कैलासपत्ती	<u>Lecythidaceae</u>	Malaria
7.	<i>Borassus flabellifer</i> L.	थती	Arecaceae	Energy Drink
8.	<i>Lawsonia inermis</i> L.	मेहेंदी	Lythraceae	Natural Dye, Jaundice
9.	<i>Aquilaria malaccensis</i> Lam.	कृष्णगुरु	Thymelaeaceae	Asthma
10.	<i>Butea monosperma</i> (Lam.) Taub.	पळस	Fabaceae	Natural Dye
11.	<i>Chonemorpha fragrans</i> (Moon) Alston.	मोमी	Apocynaceae	Anti-Diabetic
12.	<i>Bixa orellana</i> L.	शेंदरी	Bixaceae	Natural Dye
13.	<i>Gmelina arborea</i> Roxb.	शिवण	Lamiaceae	Anti Diabetic
14.	<i>Manilkara hexandra</i>	खिरणी	Sapotaceae	Fever, Jaundice
15.	<i>Asparagus racemosus</i> <u>Willd.</u>	शतावरी	Asparagaceae	Cancer
16.	<i>Pterocarpus santalinus</i> L.f.	रक्तचंदन	Fabaceae	Tonic, Swelling
17.	<i>Prosopis cineraria</i> (L.) <u>Druce.</u>	शमी	Fabaceae	Asthma
18.	<i>Bacopa monnieri</i> (L.) Pennell	नीर ब्राम्ही	Plantaginaceae	Anti Diabetic
19.	<i>Helicteres isora</i> L.	मुरुड शेंग	Malvaceae	Anti Diabetic
20.	<i>Solanum nigrum</i> L.	डोरली	Solanaceae	Skin Diseases

21.	<i>Strobilanthes callosa</i> Nees.	कारवी	Acanthaceae	Jaundice
22.	<i>Basella alba</i> L.	मायालू	Basellaceae	Leaf Vegetable
23.	<i>Coleus amboinicus</i> Lour.	पानओवा	Lamiaceae	Gastric Disorders
24.	<i>Sapindus saponaria</i> L.	रिठा	Sapindaceae	Astringent, Soap Nut
25.	<i>Elaeocarpus ganitrus</i> Roxb. ex G.Don	रुद्राक्ष	Elaeocarpaceae	Blood Purifier
26.	<i>Convolvulus</i> <i>prostrates</i> Forsk.	शंखपुष्पी	Convolvulaceae	Brain Tonic
27.	<i>Dalbergia sissoo</i> Roxb.	शिसम	Fabaceae	Molluscicidal, Tooth Brush
28.	<i>Piper longum</i> L.	लेंडी पिंपळी	Piperaceae	Chronic Malaria, Stomachache
29.	<i>Plumbago zeylanica</i> L.	श्वेतचित्रक	Plumbaginaceae	Skin diseases
30.	<i>Premna serratifolia</i> L.	नरवेल	Lamiaceae	Anti-pyretic
31.	<i>Mussaenda frondosa</i> L.	जंगली मुसांडा	Rubiaceae	Tuberculosis, Jaundice
32.	<i>Madhuca longifolia</i> (J.Konig)	मोहा	Sapotaceae	Tonic, Cough
33.	<i>Carissa carandas</i> L.	करवंद	Apocynaceae	Skin disease
34.	<i>Eclipta prostrata</i> (L.) L.	माका	Asteraceae	Cough and Asthma
35.	<i>Wrightia</i> <i>antidysenterica</i>	कुडा	Apocynaceae	Skin disorders

	(<u>L.</u>) <u>R.Br.</u>			
36.	<i>Alstonia scholaris</i> (<u>L.</u>) <u>R.Br.</u>	सातवीण	Apocynaceae	Fevers, Dysentery, Cancer, Malaria
37.	<i>Gymnema sylvestre</i> R. <u>Br.</u>	माझूनाशी	Apocynaceae	Diabetes, Weight loss, Cough
38.	<i>Mammea suriga</i> (<u>Buch.-</u> <u>Ham. ex Roxb.</u>) <u>Koster</u> <u>m.</u>	सुरंगी	Calophyllaceae	Dyspepsia and Haemorroid
39.	<i>Mentha spicata</i> L.	मिंट	Lamiaceae	Cough, Cold, Asthma, Fever
40.	<i>Crateva nurvala</i> Buch. Ham.	वरुण	Capparaceae	Rheumatic Fever, Gastric irritation
41.	<i>Ziziphus oenoplia</i> (<u>L.</u>) <u>Mill.</u>	तोरण	Rhamnaceae	Dysentery
42.	<i>Aristolochia indica</i> L.	सापसन	Aristolochiaceae	Boost the Immune system, Snakebite
43.	<i>Putranjiva roxburghii</i> L.	पुत्रंजिवा	Putranjivaceae	Skin Ailment
44.	<i>Rauvolfia serpentine</i> (<u>L.</u>) <u>Benth. ex Kurz</u>	सर्पगंधा	Apocynaceae	High blood pressure, Asthma
45.	<i>Pandanus amaryllifolius</i> <u>Roxb.</u>	केवडा	Pandanaceae	Chest pains, Reduce fevers
46.	<i>Baliospermum montanum</i> L.	दंती	Euphorbiaceae	Purgative, Anthelmentic

47.	Limonia acidissima L.	कवठ	Rutaceae	Tonic for heart and lungs
48.	Withania somnifera (L.) Dunal	अश्वगंधा	Solanaceae	Lower blood pressure
49.	Lagerstroemia speciosa (L.) Pers.	ताम्हण	Lythraceae	Anti – oxidant
50.	Grewia asiatica L.	फालसा	Malvaceae	Treating throat, tuberculosis
51.	Carica papaya L.	पपई	Caricaceae	Increase the count of white blood cells and platelets
52.	Barringtonia acutangula (L.) Gaertn.	समुद्रफल	Lecythidaceae	Cough, Diarrhea, Fever.
53.	Mesua ferrea L.	नागचाफा	Calophyllaceae	Antiseptic, Anti-inflammatory, Blood purifier
54.	Polypodium qercifolium	बाशिंगी	Polypodiaceae	Skin Ailment
55.	Artemisia vulgaris L. C.B. Clarke Mattf.	सुरबंधी	Asteraceae	<u>Antiparasitic</u>
56.	Abrus precatorius L.	गुंज	Fabaceae	Anti Diabetic
57.	Phyllanthus amarus Schumach.	भुईआवळा	Phyllanthaceae	Gallstones and Kidney stones
58.	Terminalia arjuna Roxb.	अर्जुन	Combretaceae	Antioxidant, Anti-Carcinogenic
59.	Syzygium aromaticum	लवंग	Myrtaceae	Asthma, Bronchitis, Anti -

	(L.) Merr.			Acidic
60.	<i>Celastrus paniculatus</i> <u>Willd.</u>	मालकांगुणी	Celastraceae	Anti-arthritis, Wound healing
61.	<i>Pterocarpus marsupium</i> <u>Roxburgh</u>	बिवळा	Fabaceae	Antibiotic, Hypoglycaemic
62.	<i>Senegalia catechu</i> (L.f.) P.J.H.Hurter & Mabb.	खैर	Fabaceae	Osteoarthritis
63.	<i>Cordia dichotoma</i> <u>G.Forst.</u>	भोकर	Boraginaceae	Anthelmintic
64.	<i>Erythrina corallicodendron</i> L.	पांगारा	Fabaceae	Anti carcinogenic
65.	<i>Bauhinia racemosa</i> L.	आपटा	Fabaceae	Anti-carcinogenic, Anti-inflammatory
66.	<i>Calophyllum inophyllum</i> L.	उंडी	Calophyllaceae	Fish poison
67.	<i>Moringa oleifera</i> Lam.	शेवगा	Moringaceae	Antioxidant
68.	<i>Curcuma amada</i> Roxburgh	आंबेहळद	Zingiberaceae	Antioxidant, Antibacterial
69.	<i>Premna serratofolia</i> L.	अग्निमंथ	Lamiaceae	Anti – Inflammatory
70.	<i>Semecarpus anacardium</i> L.f.	बिब्बा	Anacardiaceae	Digestive disorders
71.	<i>Terminalia bellirica</i> (<u>Gaertn.</u>) Roxb.	बेहडा	Combretaceae	Antioxidant (Triphala)
72.	<i>Kaempferia rotunda</i> L.	भुईचाफा	Zingiberaceae	Anti – Inflammatory,

				Analgesic
73.	<i>Myristica fragrans</i> <u>Houtt.</u>	जायफळ	Myristicaceae	Antiseptic, Analgesic
74.	<i>Embelia roubusta</i> <u>Burm.f.</u>	आमटी	Primulaceae	Antimicrobial, Antioxidant
75.	<i>Oroxylum indicum</i> <u>(L.) Benth. ex Kurz</u>	टेटू	Bignoniaceae	Astringent, Tonic, Anti-diarrhoeal
76.	<i>Memecylon umbellatum</i> Burm.f.	अंजन	Melastomataceae	Herpes, Diabetes, Cough
77.	<i>Cinnamomum zeylanicum</i> J.Presl	दालचीनी	Lauraceae	Spice
78.	<i>Cinnamomum tamala</i> Buch.Ham.	तमालपत्र	Lauraceae	Spice
79.	<i>Areca catechu</i> L.	सुपारी	Arecaceae	Mouth Freshener
80.	<i>Hemidesmus indicus</i> <u>(L.) R.Br.</u>	अनंतमूळ	Apocynaceae	Astringent, Blood purifier
81.	<i>Saraca indica</i> L.	सीतेचा अशोक	Fabaceae	Antioxidants, Hematoprotective
82.	<i>Aegle marmelos</i> L.	बेल	Rutaceae	Dysentery, Diabetes
83.	<i>Cissus quadrangularis</i> L.	अस्थी शुंखला	Vitaceae	bone health, Diabetes
84.	<i>Santalum album</i> L.	चंदन	Santalaceae	Anti - Inflammatory,

				Skin diseases
85.	Clerodendrum infortunatum L.	भारंगी	Lamiaceae	Rheumatism, Swelling
86.	Tylophora indica <u>(Burm. f.) 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.	पिवळीकरोति	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.	देहारी	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
99.	<u>Barleria involucrata elata</u> Dalzell C.B.Clarke	जांभलीकोरंटी	Acanthaceae	Diabetes
100.	Sesbania sesba L.	जायंटकरोति	Fabaceae	Scorpion sting
101.	Caryota urens L.	सुरमाड	Areceae	Cool and Nutritious
102.	Allocasia indica L.	कासाळू	Areceae	Antioxidant Cytotoxic
103.	Grewia tiliifolia Burrett	धामण	Tiliaceae	Cough, Anti-carcinogenic
104.	Celastrus paniculatus	मालकांगुणी	Celastraceae	Amnesia, Leprosy
105.	Bombax ceiba L.	काटेसावर	Bombacaceae	Dysentery, Haemoptysis
106.	Maranta arundicacea L.	आरारूट	Marantaceae	Skin disorders and Stomachache
107.	Elettaria cardamomum	वेलदोडा	Zingiberaceae	Spice
108.	Actinodaphne quinqueflora	सांधरूख	Lauraceae	Gastrointestinal, Ailments



(Dr. N. A. Kulkarni)

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