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# **Medicinal plants in India**

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#### **Abstract**

All living organisms depend upon plants for their survival. The use of plants in our daily life for food, shelter, medicines, fibre, etc is endless. The various bioactive compounds have direct or indirect use in the treatment of various human ailments. From time immemorial, human civilizations have been exploring the use of various plants and their products to cure several deadly diseases. In this article we have summarized the important medicinal plants growing in India and their uses.

#### Introduction

The use of plants for medicinal purposes has been known long before prehistoric times. The use of herbs by the Indian Vaidas, Unani Hakims, and Chinese for medicinal purpose has been known for over 4000 years as medicine. Rig-Veda in India is considered tobe the oldest repository of medicinal usage of plants which was written during4500 to 1600 BC. There were number of plants documented in the Ayurveda and Unani system of medicines.

Traditional systems of medicines continue to be widely practised in our country. An inadequate supply of allopathy drugs, their high cost and side effects have led to an increased demand of natural plant products to cure human diseases (Clark, 1996; Mittermeier et al., 2005; Hosseinzadeh et al., 2015). With no or minimal side effects, treatment with medicinal plants is safe. Since they are in sync with nature, they hold greater advantage over chemically treated products and synthetic medicines (Singh, 2015; Dar et el., 2017; Roshana, 2018).

This has led to a shift from allopathy medicine to natural products/naturopathy.

Indian forests have been known to be a rich repository of medicinal and aromatic plants. Ayurveda, Unani, Siddha and Folk (tribal) medicines are the major systems of indigenous medicines known in India. Of these, Ayurveda and Unani medicines are most developed and widely practised (Kirtikar, 1993; WHO, 1993).

In almost every Indian household, we will find a tulsi plant, which is a sacred plant. Indians love to have their tea with ginger and other spices. Indians strongly believe in traditional medicines for all diseases. Ayurvedic herbs are known to treat the disease from the root and thus aid in keeping us healthy and fit in the long run (Dixit,2010; Donkar, 2016). The present review focusses on some important medicinal plants growing in India and their uses.

#### **Importance of Medicinal Plants**

With the present lifestyle it is very important for us to look back at our natural products and save our God gifted treasure. A brief account of some important medicinal plants growing in India is summarized in Table 1 (Kaul, 1997; Upadhyay et al., 2004; Miladi & Damak, 2008; Zahin et al., 2009; Dar et al., 2017).

- 1. Ayurvedic herbs are nutritious and have a unique flavour.
- 2. These have no side effects and can be consumed regularly for a healthy and balanced life.
- 3. They aid in proper absorption and digestion and have a holisitic approach.
- 4. They are considered not to be specific for any disease but act as a preventive medicine.
- 5. They boost up the immune system

- 6. They are as good as allopathic medicines and are known to be effective in treating number of diseases.
- 7. It deals with the overall well-being thus bring harmony between mind, body and soul
- 8. Medicinal plants are rich resources of ingredients which are used in drug development- pharmacopoeial, non-pharmacopoeial or synthetic drugs.
- 9. They are used as blood purifiers to alter or change a long-standing condition by eliminating the metabolic toxins. Therefore they are also referred as 'blood cleansers'
- 10. Certain medicinal herbs have disinfectant property. They not only destroy disease causing germs but also inhibit the growth of pathogenic microbes that cause communicable diseases.

Table 1: Important medicinal plants in India

S.No.	<b>Botanical name</b>	Family	Vernacular name	Parts used	Medicinal uses
1.	Abroma augustum	Malvaceae	Ulatkambal/ Devil's cotton	Leaves	Gynaecological Problems, Irregularity in Periods
2.	Abutilon indicum	Malvaceae	Kanghi	Leaves	Nervine tonic, Joint Disorders, Increases Strength
3.	Acacia nilotica	Fabaceae	Babool	Seeds, bark	Oral care, Bleeding gums, wounds, young twigs used as toothbrush and skin diseases.
4.	Acalypha indica	Euphorbiaceae	Khokali/Indian mercury	All plant parts	Decoction used for asthma
5.	Acorus calamus	Acoraceae	Bach/Vacha	Rhizome	Flatulent Colic, Atonic Dyspepsia, Ulcers
6.	Achyranthes aspera	Amaranthaceae	Chirchita	Roots, leaves, seeds, flowers, fruits, seeds	Indigestion, Cough, Asthma, Liver health
7.	Adhatoda vasica Nees	Acanthaceae	Vasaka	Leaves and roots	Cough, Asthma, Bronchitis
8.	Aegle marmelos	Rutaceae	Bael	Fruit and bark	Diarrhoea, dysentery, and constipation.
9.	Albizia lebbeck	Fabaceae	Shirish	Bark, leaves, flower, seed, stem, pod	Bronchial Asthma, Detoxification
10.	Alhagica melorum	Fabaceae	Yavasa/camel thorn	Roots, seeds	Rheumatism, Vomiting, Stomachache, Constipation
11.	Allium cepa	Liliaceae	Pyaz/onion	Bulb	Prostate health, Digestive
12.	Allium sativa	Liliaceae	Lahsun/garlic	Bulb	Ringworm, Dysentery, Wounds

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13.	Aloe vera	Asphodelaceae	Grithkumari	Leaves and fruit	Laxative, wound healing, skin burns and ulcer
14.	Alostoniaschola ris	Apocynaceae	Saptaparna	Bark, leaves, milky exudates	Malarial fever
15.	Alpinia galanga	Zingiberaceae	Galanjal/Kulanian	Aerial parts, leaves, roots, rhizome	Flatulence, Dyspepsia, Vomiting, Motion sickness, Catarrh
16.	Amomum subulatum	Zingiberaceae	Badi elaichi	Seeds	Bronchitis, Asthma, Appetizer, Digestant
17.	Anacyclus pyrethrum	Asteraceae	Akarkara/Pellitory	Roots	Toothache, Dryness of The Mouth, Throat, Catarrh, Loss of libido
18.	Ananas comosus	Bromeliaceae	Ananas/Pineapple	Fruit	Sore Throat, Diabetes, Heart Disease, Obesity
19.	Andrographis paniculate	Acanthaceae	Kalmegh/King of bitters	Aerial parts, roots	Indigestion, Acne, Diarrhoea
20.	Annona squamosa	Annonaceae	Custard apple	Seeds, leaves and bark	Diarrhoea, diabetes, ulcers and dysentery.
21.	Aquilaria agallocha	Thymelaeaceae	Agargasth/ agarwood	Leaves	Bed-Wetting, Incontinence of Urinary Bladder
22.	Araurcaria	Araucariaceae	Christmas tree	Resin	Anti-ulcer, anti-viral, neuro- protective, anti-depressant, and anti-coagulant.
23.	Argyreia speciosa	Convolvulaceae	Vridhadaru	Leaves, roots, seeds	Diabetes, Skin Diseases, Wounds
24.	Artocarpus heterophyllus	Moraceae	Kathal	Whole plant	Fever, wounds, skin diseases, constipation, convulsions, diuretic, ophthalmic disorders, and snake bite.
25.	Asparagus racemosus	Asparagaceae	Shatavari	Roots	Infertility, Loss of Libido, Uterine health, Improves Lactation
26.	Aquilaria agallocha	Thymelaeaceae	Agargasth/agarwo od	Leaves	Bed-Wetting, Incontinence of Urinary Bladder
27.	Averrhoea carambola	Oxalidaceae	Kamrakh	Fruit	Haemostatic, anti-oxidant, cough and cold.
28.	Azadirachta indica	Maliaceae	Neem	Whole plant	Essential oil uses like expectorant (removes phlegm) and counter-irritant.
29.	Bacopa monniera	Plantaginaceae	Brahmi	Leaves, stem	Enhances Memory, Anxiety, protects brain cells from chemicals that cause Alzheimer's.
30.	Bahunia variegate	Fabaceae	Kachnar	Fruits, buds, flowers, seeds, and bark	Used as an antidote to poison, dysentery, diarrhoea, piles, skin diseases, leprosy, intestinal worms, tumours and wounds.

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31.	Barleriaprionitis	Acanthaceae	Katsareya/Vajrada nti	All parts of the plant	Treat alopecia, rhinitis, skin diseases like scabies, ringworm, Strengthens Teeth, hair, Useful in Fever
32.	Betula utilis	Betulaceae	Bhoipatra	Bark of tree	Wounds, obesity
33.	Boerhaavia diffusa	Nyctaginaceae	Punarnava	Leaves, aerial part, root	Anti aging, prevents oedema, Anaemia, Liver Diseases, Wounds, Kidney health
34.	Boswellia serrata	Burseraceae	Salai guggal	Oleo gum resin from tree trunk	Joint Pains, Headache, Diabetes
35.	Butea monosperma	Fabaceae	Palash	All parts of the plant	Antidiabetic, antidiarrheal, anticonvulvulsive, chemoprotective, diuretic, Complexion of Skin, Worm Infestations, Roundworm
36.	Brophyllum	Crassulaceae	Dardpaat	Leaves	Kidney stone, swelling, hypertension and leukaemia.
37.	Cannabis sativa	Cannabinaceae	Bhang	Seeds and flower	Coughing, diarrhoea, pain and loss of appetite.
38.	Catharanthus roseus	Apocynaceae	Sadabahar	Leaves and flower	Diabetes.
39.	Carica papaya	Caricaceae	Papita	Fruit and leaves	High blood pressure, diabetes, dyspepsia, constipation, general debility, expel worms and cancer.
40.	Celastruspanicul atus	Celastraceae	Mal-kangini	Seeds	Muscle Cramps, Backache, Osteoarthritis, Hair care
41.	Cinnamomum tamala	Lauraceae	Tamalpatra/Tejpatt a/Bay leaf	Leaves, bark	Diabetes, Digestion, Cold
42.	Centella asiatica	Umbelliferae	Gotu kola/Mandukparni/ Brahmi	All parts of the plant	Treatment of wounds, burns, hypertrophic scar improves memory, brain health, hair growth
43.	Cissus quadrangularis	Vitaceae	Hadjod	Whole plant	Obesity, diabetes, treats bone fracture and high cholesterol.
44.	Citrus limon	Rutaceae	Lemon	Fruit and leaves	Blood cleanser, inflammation, nerve tonic, cancer, reducing high blood pressure and kidney stones.
45.	Citrus macrocarpa	Rutaceae	Chinese orange	Leaves, fruit, and root	Cough, cold and antimicrobial.

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46.	Citrus sinensis	Rutaceae	Orange	Fruit and leaves	Cold, cough, anti-oxidants and diarrhoea.
47.	Coriandrum sativum	Umbelliferae	Dhaniya	Flower, leaves, fruit	Useful in Indigestion, Flatulence, Controls Spasmodic painswelling, stomatitis, conjunctivitis, bleeding disorders, cough and diuretic.
48.	Costusspeciosus	Costaceae	Ketaki	Rhizome	Fever, rash, asthma, bronchitis, Obesity, Hyperlipidaemia, Diabetes
49.	Crataevanurvala	Capparaceae	Varun	Leaves, bark	Kidney Stones, Bladder Stones Prostate health
50.	Cycas revoluta	Cycadaceae	Sagopalm	Leaves, seeds and shoot	Cancer, hepatoma, astringent, diuretic and tumours.
51.	Cymbopogon citratus	Poaceae	lemon grass	Leaves	Anti-convulsant, analgesic, antipyretic, anti-bacterial depressant, anti-fungal.
52.	Cyperus rotundus	Cyperaceae	Nagramotha	Rhizomes and root	Diuretic, carminative, emmenagogue, anthelminthic, stomachic, stimulant, analgesic, hypotensive, anti - inflammatory, anti-dysenteric, anti-rheumatic , diarrhoea, bleeding and dysentery.
53.	Dalbergia sissoo	Fabaceae	Sheesham	Leaves, bark, heart wood and pods	Eye pain, swelling, gynaecological disorders, bleeding disorders, antidiabetic, analgesic, antioxidant and antiinflammatory.
54.	Datura stramonium	Solanaceae	Datura	Seeds and leaves	Anti-asthmatic, antispasmodic, hypnotic, narcotic.
55.	Delonix regia	Fabaceae	Gul mohar	Seeds, leaves, bark	Antibacterial, anti- inflammatory, hepatoprotective, antimicrobial, antidiarrheal and anti-diabetic.
56.	Desmodiumgang etium	Fabaceae	Shalparni	Leaves, root	Analgesic, reduces toothache Anti-Inflammatory
57.	Elaeocarpus ganitrus	Tiliaceae	Rudraksh	Fruit and seeds	Nervous system disorders, anti-microbial, anti-ulcerogenic, anti-oxidant and anti-hypertensive.

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58.	Eleusine coracana	Poaceae	Marua	Whole plant	Asthma, anti-helminthic, anti-diabetic, anti-oxidant, diuretic, febrifuge and inflammatory.  Indigestion, nausea,
59.	Elettaria cardamomum	Zingiberaceae	Elaichi	Seeds	vomiting, pulmonary disease, laxative, dyspepsia, pulmonary tuberculosis, kidney stones, constipation and dysentery.
60.	Eucalytptus	Myrtaceae	Safaida	Oil	Essential oil uses like expectorant (removes phlegm) and counterirritant.
61.	Ficus benghalensis	Moraceae	Bargad	Bark	Dysentery, diarrhoea, leucorrhoea, nervous disorders, reduces blood sugar in diabetes and Anti-asthmatic.
62.	Ficus elastica	Moraceae	Rubber	Leaves and stem bark	Anti-bacterial, anti- inflammatory, poultice, and skin diseases.
63.	Ficus religiosea	Moraceae	Peepal	Stem-bark, fruits, apical bud, latex, root, leaves and seeds	Gonorrhoea, dysentery, aphrodisiac, skin diseases, laxative, haemorrhages and urinary complaints.
64.	Ficus virens	Moraceae	Pilkan	Leaves, shoot and fruit	Leucorrhoea, ulcers, and gargle in salivation.
65.	Glycyrrhiza glabra	Fabaceae	Mulethi/liquoric e	Root, rhizome	Antitussive, antimicrobial, antioxidant, anti- inflammatory, antiulcer, anticancer, etc. Digestive Disorders, Ulcers, Bronchitis, Skin health
66.	Helianthus annuus	Asteraceae	Sun flower	Flowers, seeds and leaves	Malaria, astringent, poultice and diuretic.
67.	Hibiscus rosa- sinensis	Malvaceae	Gulhad	Root, leaves and flowers	Diuretic, laxative, lowering blood pressure and cough, hair care.
68.	Litchi chinensis	Sapindaceae	Litchi	Fruit and leaves	Cough, flatulence, stomach ulcer, diabetes, obesity, anti-bacterial, hypoglycaemic, diuretic and antiviral.
69.	Mangifera indica	Anacardiaceae	Mango	Bark	Diarrhoea.
70.	Manilkara zapota	Sapotaceae	Chiku	Leaves, flower, bark, fruit, and seeds	Fever, wounds, ulcer, astringent, febrifuge, tonic, diarrhoea, indigestion, antipyretic and diuretic.

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71.	Mentha spicata	Lamiaceae	Pudina	Whole plant	Anti-bacterial, anti-febrile, expectorant, antiseptic, chewing gum and for skin diseases.
72.	Mimosa pudica	Fabaceae	Touch-me –not	Roots, leaves and flower head	Diarrhoea, coughs, piles, inflammation, jaundices and wound healing.
73.	Mimus opselengi	Sapotaceae	Maulsari	Bark, flowers, fruits and seeds	Astringent, cooling, anthelmintic, tonic, febrifuge, bleeding gums, pyorrhoea and loose teeth.
74.	Morus alba	Moraceae	Mulberry	Leaves, fruit, bark of root and small branches	Diaphoretic, anti- rheumatic, anti- spasmodic, diuretic, blood tonic and anti- inflammatory.
75.	Murraya koenigii	Rutaceae	Kadi-patta	Whole plant	Anti-emetic, tonic, stomachic, anti-diarrheal, relieves renal pain and febrifuge.
76.	Musa paradisiacal	Musaceae	Banana	Fruit	Coronary disease, uric arthritis, gout, anaemia, gastritis, chronic dysentery, scurvy and diarrhoea.
77.	Neolamarckiac adamba	Rubiaceae	Kadamba	Root , bark , leaves ,fruit	Fever, muscular pains, cough, oedema, aphrodisiac, ulcers and anti-inflammatory.
78.	Nyctanthesarb ortristis	Oleaceae	Harsinghar	Flower and leaves	Anti-bacterial, anti- inflammatory, anthelmintic, expectorant, constipation, arthritis, fever and anti-asthmatic.
79.	Ocimum canum	Lamiaceae	Kali-Tulsi	Leaves and seeds	Skin disease and haemorrhage.
80.	Ocimum sanctum.	Lamiaceae	Sweet-Tulsi	Leaves and seeds	Wound wash, dysuria and common cold.
81.	Papaver somniferum	Papaveraceae	Роору	Seeds	Cough, hypnotic, cancer, hypochondria, hysteria, insomnia, tumors, rheumatism, snakebites, sprains and ulcers.
82.	Pinus roxburghii	Pinaceae	Pine	Resin and wood	Antiseptic, diuretic, vermifuge, rheumatic, coughs, cold, influenza,T B, diaphoretic, stimulant and ulcers.
83.	Piper longum	Piperaceae	Pipalli	Whole spike, piplamool(dried roots and thick stem)	Asthma, Cough, Indigestion

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84.	Piper betel	Piperaceae	Paan	Root, leaves and root	Antiseptic, anti-bacterial, anti-lactagogue, antioxidant, luteolytic, carminative, expectorant, fever and heart diseases.
85.	Psidium guajava	Myrtaceae	Guava	Fruit, leaves , bark , roots	Diarrhoea, dysmenorrhea, hyperlipidaemia, hypertension, cancer and dyslipidaemia.
86.	Plumeria alba	Apocynaceae	Chamba	Heart wood and oil	Vermifuge and laxative.
87.	Polyalthia longifolia	Annonaceae	Pseudo Ashoka	Bark, leaves and seeds	Antipyretic, skin diseases, inflammation, diabetes and to lower high blood pressure.
88.	Prunus domestica	Rosaceae	Aloo Bukhara	Fruit, leaves and seeds	Laxative, stomach, febrifuge and cancer.
89.	Prunus dulcis	Rosaceae	Almond	Seeds	Cancer, hyperlipidaemia, diabetes, anaemia, constipation, skin disorders and respiratory diseases.
90.	Prunus serrulate	Rosaceae	Cherry blossom	Fruit	Anti-oxidative and antiviral.
91.	Punica granatum	Punicaceae	Pomegranate	Fruit, seed, flower	Chronic, diarrhoea, dysentery, pile, uterine disorders, anaemia and hyperdipsia.
92.	Pyrus communis	Rosaceae	Pear	Fruit	Diuretic, obesity, hypertension, dropsy, oedemas, pain, kidney stones, renal inadequacy, analgesic, diabetes and blood circulation.  High blood pressure,
93.	Rauwolfia serpentina	Apocynaceae	Snakeroot	Leaves and fruit	mental disorders, insomnia, snake bites, hypertension.
94.	Rosa spp.	Rosaceae	Gulab	Flower	Cleansing the gall bladder, nourishing the scalp, dermatitis, and eczema.
95.	Santalum album	Santalaceae	Chandan	Heart wood and oil	Skin disorder, burning, sensation, jaundice, and cough.
96.	Saraca indica	Fabaceae	Ashoka	Bark	Menstrual Irregularities, Uterine Stimulant
97.	Santalum album	Santalaceae	Chandan	Heart wood and oil	Skin disorder, burning, sensation, jaundice, and cough.

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98.	Syzgium cumini	Myrtaceae	Jamun	Seeds, leaves and bark	Diabetes, hyperglycaemia, Cough, asthma, bronchitis, flatulence, abdominal pain, dysentery, anaemia, depression, nervous system, related disorders and ulcers.
99.	Tagetes spp.	Asteraceae	Marigold	Flower	Analgesic, anti - inflammatory, antispasmodic, astringent, bactericide, carminative and emmenagogue.
100.	Tamarindus indica	Fabaceae	Imli	Flower, seeds, fruit, bark and leaves	Cardiac disorders, non- healing wounds, anorexia, rheumatoid arthritis, dyspepsia, liver health jaundice, anaemia, anti- microbial.
101.	Terminalia arjuna	Combretaceae	Arjun	Bark	Heart disease.
102.	Terminalia bellirica	Combretaceae	Bhaera	Bark and seeds	Cough, insomnia, dropsy, vomiting and ulcer.
103.	Tinospora cordifolia	Menispermaceae	Giloy	Stem	Diabetes, fever, rheumatism, dyspepsia and urinary diseases.
104.	Trachyspermum ammi	Umbelliferae	Ajwain	Leaves and seeds	Digestion, diarrhoea, antispasmodic, expectorant, bronchitis, cough, cold, influenza, arthritis, asthma and rheumatism.
105.	Tylophora indica	Apocynaceae	Damabel	Root and leaves	Asthma, allergies and rheumatism.
106.	Vitis vinifera	Vitaceae	Grapes	Fruit, leaves, stem, flowers and young branch	Laxative, stomachic, diuretic, tonic, skin diseases and emmenagogue.
107.	Withania somnifera	Solanaceae	Ashwaghandha	Root and leaves	Restorative tonic, stress, nerves disorder, arthritis, rheumatism and intestinal infection.

### **Conclusion**

The vast uses of medicinal plants for our daily uses is gradually being recognized the world over. We need to nurture and save our plants for a healthy and happy human life.

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