BRIEF INFORMATION ON MEDICINAL PLANTS

ASHWAGANDHA

- Botanical Name
- Family
- English Name
- > Used Part
- Active Principle

- : Withania somnifera
- : Solanaceae
- : Winter cherry
- : Roots



- : Withanine, Somniferine, Withaferine –A,etc.
- Botanical Description: An erect under shrub. Leaves ovate, greenish and fruits round and red in colour.
- Propagation: Propagated through seeds. Grows well in well-drained sandy loam soil of 7-8 pH. The seeds are sown during rainy season in June/July.
- Used: Ashwagandha is useful in general weakness. It gives vitality and vigor and helps in building greater endurance. It promotes urination, removes functional obstruction of the body. It reduces stress and tensions, controls depression.

AMLA

- Botanical Name
- Family
- English Name
- Used Part
- Active Principle

- : Emblica officinalis
- : Euphorbiaceae
- : Indian Gooseberry
- : Fruit
- : Vitamin-c, Gallic acid, Ellagic acid, Phyllembic acid, Emblicol



- Botanical Description: A deciduous tree leaves simple &many in each branchlet. Flowers unisexual, greenish yellow, in dense axillary fascicles along the branchlets. Fruit depressed globate, fleshy, shining yellowish green when ripe.
- Propagation: By seeds but budding and grafting can be done in February or rainy season on its own rootstock. It can be grown in any soil barring very sandy soil. Hot and moist climate is good for growth of the tree.
- Used: The fruit is the rich source of vitamin 'C'& extensively used in Ayurvedic Industry. It cures insomnia and is healthy for hair. It is also used as a Cardio protective. Fruits are good liver tonic and fruit juice in useful in indigestion &jaundice.

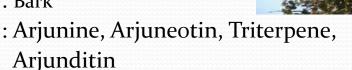
ARJUN

- **Botanical Name**
- Family

English Name

- **Used Part**
- Active Principle

- :Terminalia arjuna
- : Combretaceae
- : Arjuna
- : Bark





- **Botanical Description:** Evergreen tree with drooping branches, bark smooth, green-ish white, flaking off in flat pieces. Leaves alternate, flowers minute, sessile, greenish yellow in short axillary spikes.
- Propagation: Propagated by seeds and seedlings raised in Nursery. Seedlings are planted during rainy season in rows, optimum flowering and fruiting are obtained after 7-8 years of age.
- > Used: Arjuna mainly used in heart disease, and for strengthening the bones. It is prescribed for all sorts of conditions of cardiac failure and dropsy. The tonic made from bark is believed to have a stimulant effect on the heart.

ASHOKA

- Botanical Name
- Family
- English Name
- Vsed Part
- > Active Principle

- :Saraca indica
- : Leguminosae
- : Jonesia Ashoka
- : Bark, seeds and flowers



- : Glycosides, Saponins, Tannins, Essential oil, Ketosterol, Apigenin, Cyanidin
- Botanical Description: A medium sized evergreen tree, mostly found near water banks spreading and drooping glabrous branches. Leaves paripinnate, leaflets 4-6 pairs, sub-coriaceous, having a wavy margin.
- Propagation: By seeds sowing in Nursery, well grown plants, planted in field during July/August. Manures and watering is necessary during growing season. Young plant should be protected against hot and very cold condition.
- Used: Bark is bitter and used as astringent, refrigerant and stomatic. It is also used in biliousness, dyspepsia, fever, ulcer, dysentery, colic, piles and pimples. Dried flowers used in diabetes and haemorrhagic dysentery. Seeds used for treatment of bone fractures. Bark stmulates uterus, contractions more frequent.

BRAHMI

- Botanical Name
- > Family
- English Name
- Vsed Part
- Active Principle

- :Bacopa : Scrophulariaceae
- : Thyme Leaved Gratiola
- : Whole Plant
- : Bacosides-A, and Brahmine



- Botanical Description: Perennial, creeping, glabrous, succulent much branched herb, giving roots at the nodes. Leaves simple, opposite, obovate-oblong. Flowers white to pale violet, axillary, solitary on long pedicles.
- Propagation: Propagated vegetatively during Junr-August. Stem cuttings of 10 cm long are put in well-prepared bed in rows 20 cm apart and heavily watered. The roots strike from every node and would be ready after 4-5 months.
- Used: It is an excellent brain tonic useful, for nerves and used in mental diseases. It is also used to improve intellect, treatment of asthma, hoarseness, insanity, and epilepsy.

BAHERA

- > Botanical Name
- Family
- English Name
- Vsed Part
- Active Principle

- :Terminalia belerica
- : Combretaceae
- : Beleric Myrobalan
- : Fruit, Bark
- : Tannins, Oils



- Botanical Description: Deciduous tree, leaves clustered at the end of branchlets, broadly elliptic to obovate, coriaceous, glabrous, entire, apex sub-acute, or shortly acuminate. Glowers small, sessile, yellowish green, in axillary spikes.
- Propagation: Propagated by seeds, prefers loamy soil, grown up seedlings planted in pits at 10-12m distance during rainy season. Nursery is established for seedlings.
- Used: The Bahera fruit is useful in stomach disorders such as indigestion, diarrhoea etc. It is also given as a brain tonic and is applied on eyes as a soothing lotion. It is useful in asthma, bronchitis, inflammations, sore throat, and treatment of eyes, nose, heart and bladder diseases.

BAEL

Botanical Name

Family

- English Name
- Used Part
- Active Principle

- :Aegle marmelos
- : Rutaceae
- : Stone Apple
- : Fruit, leaes and root
- : Marmolosin, Aegalin, Psoralen



- Botanical Description: A medium sized deciduous tree, having strong axillary thorns. Leaves aromatic, alternate, trifoliate, stalked. Flowers in axillary panicles, greenish white, fragrant. Fruit is globose with woody shell.
- Propagation: Propagated by seeds and vegetative methods. Grown up seeding or vegetative propagated saplings are planted 8x8 m distance during rainy season. Grafted plants bear fruits 5/6yearsand seedlings 7/8 years.
- Used: It is a tonic, Carminative, laxative, antipyretic, antibiotic and appetzer. It has also been used in the treatment of constipation. Fruit juice is beneficial during summer season.



- Botanical Name
- Family
- English Name
- Used Part
- Active Principle

- :Acorus
- : Araceae
- : Sweet flag
- : Rhizomes
- : Asarone& -Asarone



- Botanical Description: Pernnial aromatic growing herb, very hardy and t flowers from May to July and the seeds ripen from July to August. The flower has both male and female organs. Flowers pale green, frog rant, sessile, cylindric, short and fruit 3- celled fleshy capsule.
- Propagation: Raise mostly by rhizomes cuttings in rainy reason. The plant prefers sandy, loamy &clay soil and requires wet soil. Seed sown in a very moist soil also gives good results.
- Used: It is an aromatic stimulant and mild tonic. It is valued as a rejuvenator for the brain and nervous system and as a remedy for digestive disorders. Useful in stomach ache & kidney stones.

- > Botanical Name
- Family
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- Active Principle

- COLEUS
- :Coleus forskohlii
- : Lamiaceae
- : Coleus
- : Roots
- : Forskholin



- Botanical Description: It is a attractive perennial aromatic, succulent herb. Leaves simple, opposite broadly ovate. Flowers in racemes and root tuberous and well developed. Species is herbaceous with annual stems and perennial rot stock.
- Propagation: Propagated by stem cutting very easily or by separation of rooted plants. Grows on the sun exposed, loamy or sandy loam soil. It is a subtropical &warm temperate species. Rooted plants are suitable for planting in the field during rainy seasons.
- Used: Used to treat heart and lung disease, intestinal disorders, insomnia and convulsions. It aupport overall vitality and wellbeing of body. Today it is employed in the treatment of glaucoma, hypertension, asthma, eczema, psoriasis, congestive heart failure and weight loss.

GWARPATHA

- Botanical Name
- Family
- English Name
- Used Part
- Active Principle

- :Aloe barbadensis
- : Liliaceae
- : Aloe
- : Leaves
- : Barbaloin, Aloe emodin



- Botanical Description: Dwarf, perennial succulent plant, leaves fleshy in radical rosettes, margin spring, apex gradually tapering, flowers orange-red, in terminal racemes.
- Propagation: Grown is sandy and lateritic soils in drier part of India. Perfers full sun light and sandy loam soil with good drainage facilities. Propagation by suckers and young plants.
- Used: Leaf pulp used in liver and spleen ailments and for eye troubles. Also used in colic and constipation, skin disorders, burns& cuts. It is widely used in modern cosmetics and in anti-aging creams.

JAMUN

> Botanical Name

Family

- English Name
- Used Part
- Active Principle

- :Syzygium cumini
- : Myrtaceae
- : Black plum
- : Seed and Bark
- : Anthocyanins, Glucoside, Flavonoids, Ellagic acid, Jambosine



- Botanical Description: Evergreen tree, leaves simple leathery, glabrous. Flowers numerous, small, sweet scented, dull white in axillary or terminal panicle cymes. Fruit an oblong or globose berry, dark purplish black when ripe.
- Propagation: By seeds. Soil rich in organic matter is good for cultivation. Nursery rained seedlings transplanted during rainy season. Grows well under good rain fall conditions.
- > Used: It is traditional medicine for diabetes and sore throat. Seed powder and juice is used for diabetes. Bark of the tree is used in dysentery and leucorrhea.

KADIPATTA

- Botanical Name
- Family
- English Name
- > Used Part
- Active Principle

- :Murraya koenigii
- : Rutaceae
- : Curryleaf tree
- : Whole plant, leaves and Root bark
- : Koenimb, Cadinine, Pinene, Cavirol, Isosafrol, Terpineol, Koenidine, Koenigine



- Botanical Description: A small deciduous, strong smelling, shrub or tree with compound aromatic leaves, leaflets 5-9 flowers whit in panicles.
- Propagation: Nursery is prepared by seed sowing. Fresh seeds to be used for sowing purposes, well grown plant after one year should be planted in field, time to time watering is essential.
- Used: Diarrhoea, Dysentery, Piles, Paste of leaves applied locally on Erruptions, Root bark: Relieves renal pain: leucoderma, blood disorders.

KALMEGH

- Botanical Name
- Family
- English Name
- > Used Part
- Active Principle

- :Andrographis paniculata : Acanthaceae
- : Creat
- : Whole plant
- : Andrographolide, Kalmeghin, Andrographin, Panicolin



- Botanical Description: Much branched erect annual herb, stem and branches sharpely four angled. Leaves simple,opposite, short petioled, glabrous, elliptic to lanceoleate, narrowed at both ends.
- Propagation: Propagated by seeds and sandy loam soil rich in organic matter is good for cultivation. Nursery Seedlings transplanted after 45 days in the field with spacing 30 x15 cm.
- Used: Decoction of plant used for all types of fevers, skin diseases, acidity. It is laxative, cooling and overcomes difficulty in breathing. Plant used in dysentery, cholera, diabetes, bronchitis, p-iles, cough, burning sensation and gas formation in stomach.

KONCH

- Botanical Name
- Family
- English Name
- > Used Part
- Active Principle

- :Mucuna Prurita
- : Papillionaceae
- : Cowhage, velvet bean
- : Seeds, roots



- : L-dopa, Saponins, Lecithin, Mucunin,
- Botanical Description: It ia an annual climbibng shrub up to 6m length. Leaves are ovate, alternate, and large. Flowers whit to dark purple and hang in long racemes. It produces clusters of pods that are curved. Seeds vary in colour from black, whit to mattled.
- Propagation: The plant can grow in a range of habitats. Propagated by seeds and needs support to climb. Seeds sown in rainy season.
- Used: Seeds used for Parkinson's disease. It has anti-oxidant properties nd known to enhance mental alertness and improve coordination.

SENNA

- Botanical Name
- Family
- English Name
- Used Part
- Active Principle

- :Cassia angustifolia
- : Caesalpinaceae
- : Indian Senna
- : Leaves, Pods, Stems
- : Sannoside A&B, Anthraquinones



- Botanical Description: Erect shrub, leaves pinnate with narrow acute lanceolate and glabrous leaflets of pale green colour. Flowers yellow, pods flat and obovate in shape, dark brown in colour.
- Propagation: By seeds in month of February-March or October-November. The crop can thrive on a variety of soils having well-drained conditions. Best suited for arid and semiarid conditions.
- Used: Leaves and fruits are laxative and considered as liver tonic and useful in constipation, abdominal disorders, skin diseases, jaundice, cough and typhoid fever etc.

STEVIA

- Botanical Name
- Family
- English Name
- > Used Part
- Active Principle

- :Stevia rebaudiana
- : Asteraceae
- : Stevia, Sweetleaf
- : Leaf
- : Steviosides, Rebaudioside



- Botanical Description: Small perennial shrub, semi-woody, weak stem, leaves sessile, lanceolate, opposite with above half serrated. Flowers small, whit arranged in indeterminate heads. Seeds are small and dispersed in the wind via a hairy pappus.
- Propagation: Propagated by cuttings and seeds in the monts of July-August. Fertile soil with irrigation facilities is needed for quality production. Frequent light irrigation might be necessary during dry spells.
- Used: Used as high potency low-calorie sweetener for Food and drink. The powdered herb is added directly to tea or to food. Also used in diabetes, obesity and high blood pressure etc.

SHATAVARI

- Botanical Name
- Family
- English Name
- > Used Part
- Active Principle

- :Asparagus racemosus
- : Liliaceae
- : Indian Asparagus
- : Roots
- : Shatavarin I to Iv, Sarasapogenin, Arasosapogenin



- Botanical Description: Profusely branched, spiny shrub, rootstock bearing numerous, long, fusiform roots. Leaves reduced to minute spinescent structures. Flowers whit, strong scented, in solitary or fascicled racemes.
- Propagation: Propagated from seeds as well as by tubers. Well drained rich soil with high fertility and plentiful of organic matteer are ideal. The plant is adapted to the temperate tegions and in hills in tropics and subtropics and can also be grown in plains.
- Used: It is used as a galactogogue to increase milk secretion during lactation. It is also used as a general tonic, and as an aphrodisiac. It is useful in nervous disorders, tumors, throat infections, cough, bronchitis and general debility.

SARPGANDHA

- Botanical Name
- Family
- English Name
- > Used Part
- Active Principle

- :Rauwolfia serpentina
- : Apocynaceae
- : Rauwolfia, serpentina
- : Roots



- : Reserpine, Serpentimine, Ajmalicine, Ajmaline
- Botanical Description: A small erect perennial shrub. Leaves dark green, glabrous, ellipitic lanceolate, in whorls of 3 to 4. Flowers whit, frut purple black when ripe; fruiting from July to November.
- Propagation: Propagated from seeds (poor germination), stem & root cuttings, and young suckers during rainy season. Soil rich in organic content and well drainage conditions are suitable for cultivation.
- Used: Root is used as a sedative and for reducing Blood pressure. The alkaloid stimulates Central Nervous System. Roots has been used for relief from nervous disorders including anxiety, insanity, insomnia and epilpsy.

SADABAHAR

- Botanical Name
- Family
- English Name
- Used Part
- Active Principle

- :Catharanthus roseus
- : Apocynaceae
- : Periwinkle
- : Leaves, flower, root



- : Vinblastine, Reserpine, Ajmalicine, Vincristine
- Botanical Description: It is an erect perennial herb up to 45-120 cm. Tall, with glossy opposite leaves, 2-3 flowers in cymes. Flowers whit and pink.
- Propagation: By seeds and cuttings. Propagated through seeds throughout the year. It can grow in wide range of soil conditions even poor soil. Seedlings are planted at I ft x I ½ ft spactig.
- Used: Infusion of leaves used in diabetes and decoction of roots is used for hypertension, sedation and in tooothache. Extract oof leaves is anticarcinogenic.

TULSI

- Botanical Name
- Family
- English Name
- Used Part
- Active Principle

- :Ocimum sanctum
- : Labiatae
- : Basil, Sacred Basil, Holy Basil
- : Leaves, Seeds
- : Eugenol, Carvocrol, Methyleugenol



- Botanical Description: Numerously branched woody herb. Leaves are dark green in colour, hairy opposite, entire or serrate, toothed with minute glands. Stem purple, hairy, giving out numerous branches.
- Propagation: Propagated by seeds. The plant grows in wide variety of soil and climatic conditions. Well-drained soil, humid weather, long days and high temperature are favorable for good growth and yield of high essential oil.
- Used: The herb is widely used in cough, cold and fever. IT possesses anti fungal, antimicobial, antiviral, insecticidal, activity. It is used in malaria, bronchitis and gastric disorders.