Documentation of Major Medicinal Plants in Sandure of Karnataka, India

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ABSTRACT
Documentation of Medicinal plants is the only way to preserve the fundamental knowledge of the plant resources for future endower. The present survey is designed to study the Medicinal plants in Swamymalai block of Yeshwantha nagar beat, Sandur, Karnataka, India. This study resulted in the documentation of 50 ethnomedicinal plants. The 50 plant species are belongs to 26 families of 46 genera. The documented families in the study area are Acanthaceae, Aloaceae, Amaranthaceae, Annonaceae, Apocynaceae, Arecales, Asteraceae, Caricaceae, Combretaceae, Euphorbiaceae, Fabaceae, Lamiaceae, Malvaceae, Moraceae, Moringaceae, Myrtaceae, Phyllanthaceae, Poaceae, Rhamnaceae, Rutaceae, Solanaceae, Verbenaceae, Vitaceae, Zingiberaceae. The survey shows that, Fabaceae is the dominant family with 12 species. The survey also reviles that, the trees are dominant ones followed by the shrubs and Herbs. Majority of the documented plants are used against several diseases, either alone or in combination with other plants.

Keywords: Ethnobotany; Ethnomedicinal plants; Family; Species

INTRODUCTION
India has one of the richest plant medical traditions in the world. Traditional medicine and ethnobotanical information’s play an important role in plant science research. Herbal medicine is still practiced about 75 - 80% of the world population mainly in the developing countries for their primary health care needs [1]. It is estimated that, around 46,000 plant species including higher plants such as angiosperms and gymnosperms and lower groups wise pteridophytes, bryophytes, fungi, lichen and algae are known to occur in India. Of which 19,395 taxa including infra-specific level are angiosperms. About 8,000 flowering plant species have been recorded in different codified and non-codified system systems of medicine practiced by 4,635 ethnic communities [2]. In India, there are about 7,000 species of angiosperms reported to be in medicinal use [3]. These figures have now obviously increased. Plants and its products have been used traditionally by the inhabitants of India from the time immemorial.

The state of Karnataka boasts an unparallel diversity of medicinal plants in the country. It is estimated that, Karnataka is the home to about 4800 species of flowering plants out of which about 2000 species are medicinal [4]. This is quite remarkable, as this number accounts for about 27% of the country’s flora, with just 10% of the geographical area. Karnataka with its unique wild habitats spread across the Western Ghats and the Deccan Peninsula is also the home to several endemic species of commercial importance [5]. Some of the studies related to ethnobotany and floristic diversity have been reported from Karnataka state [6,7].

Nevertheless, there is a lack of current exact estimations concerning the use of medicinal plant resources by local people across the globe [8]. Up to date quantitative estimations about the plants used in home and folk therapies are needed, especially those supported by a complex analysis of variables influencing the importance and persistence of plant medicines in local communities [9]. Measuring medicinal plant knowledge can give an insight into the cultural importance of plant resources, i.e., which species are recognized as effective, appreciated and reported with major frequency. Measuring this knowledge may also provide information about the proportions of agreement (consensus) and variation in medicinal plant use by groups within the same region, as well as distant but culturally similar groups [10].

Hence, the current study on diversity indices and documentation of medicinal plants will provide the awareness and traditional knowledge of medicinal plants.

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MATERIAL AND METHODS

Study area

The present study provides a detail of Sandur taluk is located in the central part of Ballari district and eastern part of Karnataka state. Sandur is 565 m above sea level and lies between 15°00’ and 15°15’ N latitude and 76°20’ and 76°55’ E longitude. The total geographical area is 1,243.95 Sq.km. Sandur Medicinal plant area falls in Swamy malai block of Yeshwantha nagar beat extends over 345 hectare and is situated at an altitude between 550-773 MSR around forest guest house, it is the slopy area forming valley portion with local species and good generations, this is situated on main road from Sandur to Kudligi and is 5 km away from Sandur town shown in Figure 1.

Regular field visits to the study areas were made for observation and documentation of medicinal plants for a period of five months from first week of January 2018 till last week of May 2018. Personal interactions were conducted with the knowledgeable officers of - Range forest officer (RFO), Deputy Range Forest Officer (DRFO), Forest guides and herbal healers of study area during field trips and recorded ethnomedicinal information about the plants. Medicinal plants were documented and detailed field notes were taken along with voucher number, locality, habit, local name, floral characteristics, nature of the fruit, local medicinal uses, etc. The identification of plants was made by referring flora [11,12] and some medicinal plants books [13].

Plants were photographed and identified by florists such as Gamble and Ramaswamy et al. with the help of Taxonomists. During the fieldwork, the plant species are given in alphabetical sequence with other details such as botanical name, vernacular name, family, habit of the plant, Plant parts used and medicinal properties.

RESULT AND DISCUSSION

In the current study, plants belonging to medicinal uses were studied and were identified and collected during flowering, fruiting and seed developing stages described accordingly in a detailed alphabetic manner with respect to their family names. Total 50 plants were collected from the different parts of the study area. Those 50 plants include tress, herbs and shrubs. The documented plant species consists of 26 families of 46 genera.

Present study shows that dicotyledons vegetation is dominating in the area. The dominant families such as Fabaceae (12) followed by Apocynaceae (4), Rutaceae (4), Lamiaceae (3), Malvaceae (3), Phyllanthaceae(2), Acanthaceae (1), Aloaceae (1), Amaranthaceae (1), Annonaceae (1), Areceaceae (1), Asterolaceae (1), Caricaceae (1), Combretaceae (1), Euphorbiaceae (1), Menispermacese (1), Moraceae (1), Moringaceae (1), Myrtaceae (1), Poaceae (1), Rhamnaceae (1), Santalaceae (1), Solanaceae (1), Verbenaceae (1), Vitaceae (1), Zingiberaceae (1). The trees are the dominant ones (29 species) followed by the Herbs (11species), Shrubs (10 species) are shown in Figure 2. Number of genera and the number of species are listed in the Table 1.

The documented medicinal plants are used in the treatment of various ailments like Arthritis, Boils, Bleeding Hemorrhoids, Diarrhea, Dysentery, Gastric Ulcer, Head ache, Inflammation, Skin diseases, Stomach disorders, Asthma, cholera, cold, cough, rheumatism, ringworm, small pox, stomach disorders, toothache and swelling, Urinary diseases, Antioxidant, antibacterial, anti-inflammatory, antiphretic, hepatoprotective, antibacterial, anti-ulcer etc. Catharanthus roseus is used as an anticancer agent. Root, leaf, fruit, flower, bark or whole plant is used to cure disease. Medicinal plants are rich resources to cure the various diseases. The plant species which are falls under vulnerable, rare and endangered category are due to various external factors. Hence these wild plant species should be conserved and to be encouraged for large scale cultivation and to develop many herbal gardens for medicinal plants in the suitable areas adopting the modern agronomical techniques.

Some of the photographs of documented medicinal plants are included below:

Figure 1: Maps showing medicinal plant conservation area (study area) in Swamimalai block of Sandur Taluk, Karnataka, India.

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| Serial Number | Botanical Name          | Common Name | Habit  | Family         | Medicinal uses                                                                                                                                 |
|---------------|-------------------------|-------------|--------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1.            | Justicia adhatoda       | Malabar nut | Shrub  | Acanthaceae    | Decoction of the leaves is used for bronchiole disorders, This herb is known for it's antispasmodic, expectorant and blood-purifying qualities. |
| 2.            | Aloe succotrina         | Aloe vera   | Herb   | Aloaceae       | Relieve from heartburn, anti-aging, reduce blood glucose level, natural laxative, lower cholesterol, in treating psoriasis, seborrhea, and minor burns and skin abrasions, as well as radiation-induced skin injuries. Aloe gel also seems helpful in treating the sores caused by genital herpes in men. |
| 3.            | Chenopodium ambrosioides | Warm seed   | Herb   | Amaranthaceae  | Used to expel parasitic worms from body. Whole plant shows analgesic, anti-asthmatic, carminative, properties. It has been used as a wash for hemorrhoids as a poultice to detoxify snake bites & other poisons & is thought to have wound – healing properties. Seed essential oil extract is very effective against most parasites, including the amoeba that causes dysentery. The plant is used as a fumigant against mosquitoes & is also added to fertilizers to inhibit insect larvae. |
| 4.            | Annona squamosa         | Sugar apple | Shrub  | Annonaceae     | A bark decoction is used to stop diarrhea, while the root is used in the treatment of dysentery.                                                                                                         |
| 5.            | Calatropis procera      | Sodoms milk weed | Shrub  | Apocyanaceae  | Asthma, boils, choler, cold, cough, rheumatism, ringworm, small pox, stomach disorders, toothache and swelling.                                                                                                    |
| 6.            | Carissa carandas        | Bengal cerrant | Shrub  | Apocyanaceae  | Fruit is rich source of iron, contains a fair amount of vit- c. anti diarrheal anthelmintic, Antioxidant, antiphretic, anti bacterial, antiinflammatory, anti-ulcer, hepatoprotective, antiadiabetic, |
| 7.            | Catharanthus roseus     | Vinca rosa  | Herb   | Apocyanaceae  | Whole plant is used in curing diabetes, while the leaves are used during body swelling.                                                                                                               |
| 8.            | Nerium oleander         | Nerium      | Shrub  | Apocyanaceae  | The leaves and the flowers are cardiotonic, diaphoretic, diuretic, emetic, expectorant and stimulant, A decoction of the leaves has been applied externally in the treatment of scabies and parasitic skin worms and to reduce swellings. An oil prepared from the root bark is used in the treatment of leprosy and skin diseases of a scaly nature. The whole plant is said to have anticancer properties |
| 9.            | Coconut nucifera        | Coconut     | Tree   | Areaceae       | It is most commonly used to treat disorders of the digestive tract & aid in all digestive functions & is said to have properties that use anti-fungal, anti bactrical, expectorator & antiasthmatic. Excellent insect repellent. |
| 10.           | Artemisia parviflora    | Worm wood   | Tree   | Asteraceae     | Papaya contains VitA which provides a fresh & glowing skin & protect the skin from infection and help to speed up the healing of wounds, the VitA rich, papaya help in preserving good eye sight, it also contains flavonoids & beta carotene that protects against macular degeneration, papaya fruit is rich in fiber that improves digestion & softens the bowel movement. The anti-oxidant activity coupled by rich fibers content of papaya fruit help in absorbing the toxins from the colon that protects the good cells from free radicals & damage. Help to prevent the colon cancer development. Fruit contains Ca & K these minerals are important in regulating the blood pressure & metabolism and boosts the immune system. Abortifacient - extracts from papaya roots are used to absorb early pregnancy. |
| 11.           | Carica papaya           | Papaya      | Tree   | Caricaceae     | The fruits cause loss of appetite and also provide anti-diastral because of its astringent property also useful for curing eye related problems such as immature cataract (or) any kind of infection lower the blood pressure and levelling the cholesterol. It promotes hair growth adds nutrition and useful against greying. Chewing of fruits is believed to cure cough, cold, asthma and hoarse voice. This has been proved beneficial against jaundice, leprosy and anaemia, cardiac problems, diabetes and urinary problems. |
| 12.           | Terminalia bellirica    | Beleric     | Tree   | Combretaceae   |                                                                                                                                                                                                          |
|   | Species                      | Common Name       | Family   |
|---|------------------------------|-------------------|----------|
| 13. | *Jatropha curcas*            | Barbados nut      | Euphorbiaceae |
|    |                              | Shrub             |          |
| 14. | *Putranjiva roxburghii*      | Lucky been tree   | Euphorbiaceae |
|    |                              | Tree              |          |
| 15. | *Albizia procera*            | Red & white siris | Fabaceae |
|    |                              | Tree              |          |
| 16. | *Bauhinia purpurea*          | Butterfly tree    | Fabaceae |
|    |                              | Tree              |          |
| 17. | *Butea monosperma*           | Flame of the forest | Fabaceae |
|    |                              | Tree              |          |
| 18. | *Caesalpinia pulcherrima*    | Peacock tree      | Fabaceae |
|    |                              | Shrub             |          |
| 19. | *Cassia alata*               | Candle bush       | Fabaceae |
|    |                              | Tree              |          |
| 20. | *Cassia fistula*             | Golden shower     | Fabaceae |
|    |                              | Tree              |          |
| 21. | *Erythrina variegata*        | Indian coral tree | Fabaceae |
|    |                              | Tree              |          |
| 22. | *Gliricidia maculata*        | Mother of cocoa   | Fabaceae |
|    |                              | Tree              |          |
| 23. | *Pterocarpus santalinus*     | Red sandal wood   | Fabaceae |
|    |                              | Tree              |          |
| 24. | *Pongamia pinnata*           | Pongam oil tree   | Fabaceae |
|    |                              | Tree              |          |
| 25. | *Sesbania grandiflora*       | Humming bird tree | Fabaceae |
|    |                              | Tree              |          |

**Jatropha curcas** - Barbados nut, Shrub (Euphorbiaceae)
- The plant is known to be toxic when ingested but used as a remedy for external injuries. The roots (oil) can be used for haemolytic disease.
- The leaves are used to relieve the pains, Rheumatic Fever, malaria, Oedema, wounds, colic, syphilis, jaundice, the leaves are made in the form of decoction to sterilize umbilicus of newborn babies. The twigs are used as a striking stick to prevent tooth decay, oral thrush, bleeding and toothache. The latex is used to treat skin diseases such as ring worm, scabies, eczema, wounds, tooth decay, snake bites and wasp stings.

**Putranjiva roxburghii** - Lucky been tree, Tree (Euphorbiaceae)
- Its leaves, fruits and seeds are used for medicinal purpose. The leaves of tree are refrigerant analgesic and Anti-inflammatory and used to treat fever and sterility, treat allergic of Red pimples on the body.
- Decoction of leaves is used for treating cold, fever and Rheumatism for swollen and inflamed joints; the leaves of the tree are used externally. The seeds paste is also useful against headache and seed powder used for Knee pain.

**Albizia procera** - Red & white siris, Tree (Fabaceae)
- All parts plants are reported to show anti-cancer activity, decoction of the bark is given for the treatment of rheumatism and haemorrhage.

**Bauhinia purpurea** - Butterfly tree, Tree (Fabaceae)
- Control Crotch itch, Ringworm, Inflammation, sprain, swelling due to any reason (arthritis, moch), Dysentery, Intestinal parasites, remedy for snakebite and helps in Urine retention, Blood purification, Sexual dysfunction, intestinal infection, ulcer, Diabetes.

**Butea monosperma** - Flame of the forest, Tree (Fabaceae)
- Control LDL Cholesterol, protect against heart diseases. Cancer.
- A combination of the Roots Bark and Leaves may be boiled into a medicinal tea, which is given to patients a treatment for fever, Jaundice, Kidney disease and gastrointestinal disorder. Gurgling with a tea is also said to treat sores in the mouth (or) throat.

**Caesalpinia pulcherrima** - Peacock tree, Shrub (Fabaceae)
- It has anti-bacterial, antifungal, antitumor activity. The leaves and root is laxative they are taken internally as a remedy for constipation and to purify the blood, used in treating skin diseases and powder is mixed with oil as an ointment. The bark is used to treat skin diseases, diarrhoea, worms, parasitic skin diseases, scabies and eczema.

**Cassia alata** - Candle bush, Tree (Fabaceae)
- Liver protecting, inflammation reducing, cough suppressive, wounder healing, Anti-microbial and constipation curing

**Cassia fistula** - Golden shower, Tree (Fabaceae)
- Decoction of the bark relief from stomach problems and reduce obesity. Leaves are used to reduce the amount of harmful cholesterol in the blood and ear pain

**Erythrina variegata** - Indian coral tree, Tree (Fabaceae)
- The plant is a folk remedy for alopecia, boils, bruises, burns, colds, cough, debility, eruptions, erysipelas, fever, fractures, gangrene, headache, itch, prickly heat rheumatism, skin tumours, ulcers, urticaria and wounds also shows antifungal activity.

**Gliricidia maculata** - Mother of cocoa, Tree (Fabaceae)
- Used in skin ailments and disorders, cosmetics, relief from burns and antiseptic

**Pongamia pinnata** - Pongam oil tree, Tree (Fabaceae)
- It’s used externally as a liniment for rubbing on skin diseases & rheumatic joints.
- The seed powder is given as an expectorant in the treatment of bronchitis & whooping cough & is also prescribed as a febrifuge & tonic.
- Leaves are crushed & applied as a poultice for the treatment of parasitic skin diseases & to relieve bleeding haemorrhoids.
- The flowers are claimed to have anti-diabetic action. The antiseptic root juice is put on sores & ulcers & used to clean teeth.

**Sesbania grandiflora** - Humming bird tree, Tree (Fabaceae)
- Root and bark paste is used to relieved pain and inflammation associated with arthritis, gout. Leaf juice extract is used for nausea.
- Flowers are used in the treatment of night blindness, headache, oral and throat infection. Fruit are used to improve memory and intelligence.
|   | Scientific Name | Common Name | Plant Type | Family     | Medicinal Properties |
|---|----------------|-------------|------------|------------|----------------------|
| 26. | *Tamarindus indica* | Tamarind tree | Tree | Fabaceae | Whole plant has medicinal properties. Leaf extracts exhibit Anti-oxidant activity in the lives and is a common ingredient cardiac and blood sugar reducing medicines. The decoction of the leaves is good against throat infections, cough, fever and even intestinal worms. The decoction of the Flower buds is used as remedy for children bed wetting and urinary complaints. Syrup made from the ripe fruit is used to keep the digestive organs in good condition. |
| 27. | *Ocimum americanum* | Hoary basil | Herb | Lamiaceae | Used to treat arthritis, have anti-aging & antibacterial properties and help to prevent certain types of skin, Liver oral & lung cancers. Basil is aromatic herbs that are used extensively to add a distinctive aroma & flavor to food. Essential oils extracted from fresh leaves & flowers can be used as aroma additives in food, pharmaceuticals & cosmetics. Used in the treatment of headaches, coughs, diarrhea, constipation, warts, worms, urinary infection & kidney malfunction. Basil leaves possess strong antiviral, antimicrobial, anti-inflammatory & anti-oxidant properties. Basil act as insect repellents. |
| 28. | *Ocimum basilicum* | Great basil | Herb | Lamiaceae | whole plant has medicinal uses. Tulsi oil is used against the insects and bacteria. It is an effective remedy for the severe acute respiratory problems. It helps in curing malaria, indigestion, headache, lysteria, insomnia and cholera. Helps in protecting one from the negative influences. |
| 29. | *Ocimum sanctum* | Tulasi | Tree | Lamiaceae | All parts of the plant including bark, root, leaves flowers and fruits are used. Fruits and leaves possess Antibacterial properties. Crushed fruits are used in treatment of Uric acid, diabetes, peevishness. The bark decoction is used for cleaning of wounds, treats Dysentery, diabetes, yellow urine, Gonorrhoea and Thrush. The inner bark is used to treat constipation and Typhoid. The stem is employed in treating Breast cancer. Leaf and bark decoction are used as Remedy for high blood pressure. |
| 30. | *Ceiba pentodna* | White silk cotton tree | Tree | Malvaceae | Flowers are aphrodisiac, demulcent, emollient and refrigerant. They are used internally in the treatment of excessive and painful menstruation, cystitis, venereal diseases, feverish illnesses, bronchial catarrh, coughs and to promote hair growth. |
| 31. | *Hibiscus rosa-sinensis* | Chinese rose | Shrub | Malvaceae | Whole plant has medicinal uses. It is a good source of protein, vitamins, beta-carotene, amino acids & various phenolics. Moringa can act as cardiac & circulatory stimulants, possess anti-tumor, antipyretic antiepileptic, anti-inflammatory, anti-ulcer anti-oxidant, anti-diabetic, antifungal & anti-bacterial activities. Flower juice improve the quality & flow of mother’s milk when breast feeding & useful for urinary problems. |
| 32. | *Thespesia populnia* | Pacific rose wood | Tree | Malvaceae | All parts of the plant including bark, root, leaves flowers and fruits are used. Fruits and leaves possess Antibacterial properties. Crushed fruits are used in treatment of Urinary Tract Problems and Abdominal swelling. Decoction of leaves treats cough, influenza, and headache. The leaf sap is used externally for skin diseases. The bark decoction is used for cleaning of wounds, treats Dysentery, diabetes, yellow urine, Gonorrhoea and Thrush. The inner bark is used to treat constipation and Typhoid. The stem is employed in treating Breast cancer. Leaf and bark decoction are used as Remedy for high blood pressure. |
| 33. | *Tinospora cardifolia* | Heart leaves moonseed | Herb | Menispermaceae | Used for diabetes, high cholesterol, peptic ulcer disease, allergic rhinitis (hay fever), upset stomach, gout, lymphoma and other cancers, rheumatoid arthritis, hepatitis, fever, gonorrhea, syphilis, and to boost the immune system. |
| 34. | *Artocarpus heterophyllus* | Jackfruit | Tree | Moraceae | Leaves are used for treating ulcers, diarrhoea, boils, stomach-ache and boils. Seeds are aphrodisiac and as a cooling tonic like the pulp. Root decoction can reduce fever and can treat diarrhoea, skin diseases and asthma. |
| 35. | *Moringa oleifera* | Moringa | Tree | Moringaceae | It is a good source of protein, vitamins, beta-carotene, amino acids & various phenolics. Moringa can act as cardiac & circulatory stimulants, possess anti-tumor, antipyretic antiepileptic, anti-inflammatory, anti-ulcer anti-oxidant, anti-diabetic, antifungal & anti-bacterial activities. Flower juice improve the quality & flow of mother’s milk when breast feeding & useful for urinary problems. |
36. **Psidium guajava**
Guava
Tree
Myrtaceae

Guava leaf extract has analgesic, Anti-inflammatory, Antimicrobial, hepto protective and Anti-oxidant activities, inhibits pancreatic cholesterol esterase, which decrease cholesterol levels, diabetes. The Anti-oxidant properties of the guava seeds extract can be associated to anti-cancer effects on both Hematological and solid neoplasm.

37. **Phyllanthus acidus**
Star goose berry
Tree
Phyllanthaceae

It is a Immunomodulatory, Anti-diabetic, anti-hyperglycemic, Antilipemic, Antioxidant, Adaptogenic, Antacid, Demulcent, Digestive stimulant, Hematogenic (increases haemoglobin level), Anti-anemic, Anti-inflammatory Anti-cancer, Anti-microbial.

38. **Phyllanthus emblica**
Indian goose berry
Tree
Phyllanthaceae

Used for cooling in juice (or) sharbat. Treatment of nervous disorder, insomnia, muscular and joint pain and circulation problem, diabetics, regular menstruation, blood pressure and cardiac problems etc. Flavouring agent in alcoholic beverages. Used against lice and other insects.

39. **Vetiveria zizanoides**
Lavancha
Herb
Poaceae

The root is used to cure skin itching, asthma. Leaves to control fevers. The decoction of the bark is used to treat branching catarrh. The fruit is used as laxative and also tonic to enrich the blood. The juice of fruit is rich in vit "c".

40. **Ziziphus jujuba**
Indian jujube
Tree
Rhamnaceae

Used for treating scurvy, a condition caused by not having enough vitamin C, common cold and flu, H1N1 (swine) flu, ringing in the ears (tinnitus), Meniere's disease, stomach upset and vomiting from pregnancy, and kidney stones.

41. **Aegle marmelos**
Wood apple
Tree
Rutaceae

Lowering of blood cholesterol, anti-inflammatory, roots are anti-diarrhoeatic, antidote to snake venom. Chewing of raw leaves help to solve many gastric problems. Bael juice is rich in vitamin "c", and good for scurvy treatment also acidity, heartburn, indigestion and hyperacidity.

42. **Clerodenrum inerme**
Glory bowel
Shrub
Verbenaceae

Leaf is ground in water and the juice is taken orally to treat fever. It is an important medicinal plant reported to be used in the treatment of skin diseases, venereal infections, elephantiasis, asthma, topical burns and for rheumatism. It is also used as substitute of quinine.

43. **Stachytarpheta urticiflora**
Blue snakeweed
Herb
Verbenaceae

Oral preparation for treatment of gastrointestinal dysfunctions. The treatment of liver related disease, respiratory problems. The phytochemical in gervao powder are powerful antioxidants with antiviral, neuroprotective liver protective, antibacterial, antitumorous and cardioactive effects.

44. **Cissus quadrangularis**
Devils backbone
Tree
Vitaceae

Analgesic- Acting to relieve pain, Anti-oxidant, anti-Inflammatory. Whole plant possesses Bone-Healing/ Antiesteoproticating promote weight gain, Improve muscular strength, immunostimulant to increase physical stamina and remove blood impurities
Figure 2: Shows habit wise distribution of medicinal plants in study area.
CONCLUSION

The current study provides the basic information about the medicinal uses of plant species and provides the information about the distribution and description of the medicinal plant species which is useful for further research and field work in Sandur region. It is concluded that, 50 medicinal plant species are documented in the study area which belongs to 26 families and 46 genera. The family Fabaceae has 12 species, Rutaceae 4 species, Apocynaceae 4 species, Malvaceae 3 species, Lamiaceae 3 species and followed by Phyllanthaceae 2 species, Verbenaceae 2 species and others are one from each family. These wild medicinal plant species treasure are encouraged to be conserved because many of the valuable plant species are under threat to became rare, endangered and some are on the verge of extinction due to various external factors.

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