

Survey on Medicinal Plants at Sri Seetharama Chandra Swamy Temple, Jagadamba Junction, Visakhapatnam, India.

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ABSTRACT

A plant survey work has been conducted in Sri Seetharama Chandra Swamy temple at Ambika Bagh near Jagadamba junction in Visakhapatnam. Nearly 130 species are listed out, 33 species of trees, 36 shrub species, 49 species of herbs and 12 climbing species are noticed. Among them are many sacred, ornamental and herb species are recorded. For every species botanical name, family, life form and its use was given. A very old large Peepal tree, Tulasi vanam and nearly 120 species of plants medicinal importance are the special attraction of this present work.

Keywords: Survey, Plant, herbs and medicinal.

INTRODUCTION

Sri Seetharama Chandra Swamy temple at Ambika Bagh near Jagadamba junction in Visakhapatnam has a long history. This temple is in the heart of the city. It has the area of 2.70 acres. This was donated by the Chemudu state in the past. Its head Rani Chandramathi Devi donated the land to the Endowments department but it took a long time to build a temple here. Meanwhile the land was left barren. So, it has many plant species. Now the present survey aims on the listing and collecting the plant species from that area. A detailed observation was undertaken to explore. Large number of species were reported in that small area. Though it is present on the road view exposed to various pollutants it maintained a good number of species which has high medicinal value.

METHODOLOGY

Initially a field note book was maintained after every survey. Some plant specimens are collected. Some are preserved in wet formalin. Some are pressed, dried and pasted on herbarium sheets. These specimens are identified with the help various floras and authentic herbaria available in the Andhra university Botany department. A herbarium and wet samples are preserved in the laboratory of St. Ann's college, Malkapuram, Visakhapatnam. This work may be providing very interesting information for the Botany personal and others enumerators. Initially a field note book was maintained after every survey.

RESULTS AND ANALYSIS

Nearly 130 species are listed out in this area. Among them there are 33 tree species, 36 shrub species, 49 herb species and 12 climbing species. There are different types of plants; nearly 12 species of sacred plants like Jammi, Ravi Tulasi, Maredu, TellaJilledu, Vepa etc are present. A large Peepal tree is there which has a 20 feet wide large trunk and there branches here spread upto 40 feet. It has worshiped every day. A Tulasi vanam is being maintained where 5 to 6 kinds of Ocimum species like Ocimum sanctum, Ocimum basilicum, Ocimum tenuiflorum, Ocimum gratissimum, Ocimum americanum are present which have high medicinal value. Other plants with high medicinal values, like Maredu, and Jammietc are also being maintained. The species like Tephrosia purpurea, Tephrosia villosa, Croton bonplandianum, Helio tropium indicum like herbs, which are available here because it is an undisturbed area for a long time. There are not available outside. Now there are 38 species of ornamental plants. Other normal trees and various shrubs and herbs, species account for 80. All these 130 accounted plant species of this area belong to 50 families (Fig 1 & Table 1). Among them Malvaceae, Lamiaceae, Apocynaceae, Fabaceae, Euphorbiaceae show more species than others. Remaining families may show a smaller number of species but a greater number of individuals is present. Some of the individuals of species are less in number because of the construction work. But large area was left undisturbed. Another important point noticed here is that the plants are healthy and showing large sized plant parts than the other areas may be due to the availability of the organic matter and other conditions which has to be worked out later.

Mostly almost all plant species are showing medicinal importance. Not only are they economically important, medicinal importance cannot be over looked. Now a day's people are showing interest towards traditional medicine than the allopathic medicine because of the side effects they are giving. An attempt was made in this work to identify its medicinal importance also from different sources. Many plants are useful to cure Asthma, dysentery, cancer, digestive troubles, gynaec problems, kidney stones even HIV. The plants are showing antibiotic, antioxidants and health promoting alkaloids in them. Much work can be concentrated in this aspect in future.

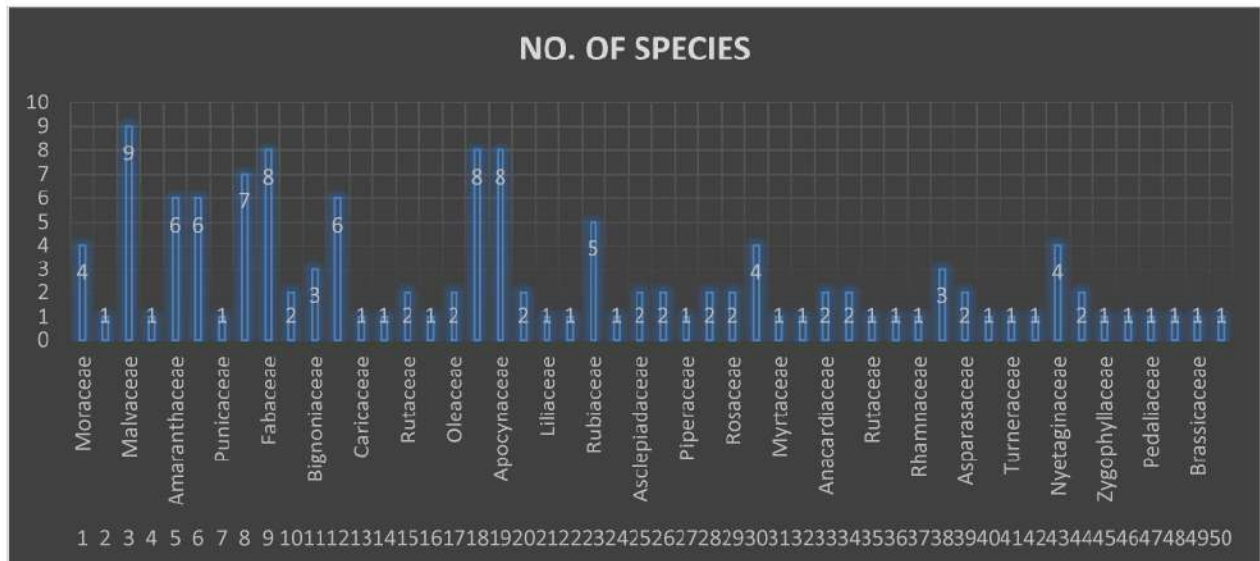


Figure 1: Representing the medicinal plants

Table 1: List of medicinal plants along with their medicinal uses

| S.No | BOTANICAL NAME | COMMON NAME | FAMILY | HABIT | USES |
|------|-----------------------------|--------------|----------------|---------|--------------------|
| 1 | <i>Ficus religiosa</i> | Raavi | Moraceae | Tree | Medicinal,rel |
| 2 | <i>Cocos nucifera</i> | Coconut | Areaceae | Tree | Economical, scared |
| 3 | <i>Abutilon indicum</i> | Muturubunda | Malvaceae | Shrub | Weed, medicinal |
| 4 | <i>Tinospora cordifolia</i> | Thippatheega | Menispermaceae | Climber | Medicinal |
| | | (Guduchi) | | | |
| 5 | <i>Acalypha indica</i> | Muripinda | Euphorbiaceae | Herb | Medicinal |

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|----|---------------------------------|----------------|---------------|---------|--------------------------|
| 6 | <i>acalypha ianceolata</i> | Muripinda | Euphorbiaceae | Herb | Medicinal |
| 7 | <i>Pongamia pinnata</i> | Kanuga | Fabaceae | Tree | Medicinal |
| 8 | <i>Punica granata</i> | Pomegranate | Punicaceae | Tree | Medicinal, economic |
| 9 | <i>Tridax procumbens</i> | Gaddichamanthi | Asteraceae | Herb | Medicinal, weed |
| 10 | <i>Thespesia populnea</i> | Ganga ravi | Malvaceae | Tree | Medicinal |
| 11 | <i>Amaranthus viridis</i> | Thotakura | Amaranthaceae | Herb | Economic |
| 12 | <i>Hibiscus rosasinensis</i> | Mandara | Malvaceae | Tree | Ornamental, Medicinal |
| 13 | <i>Azadirachta indica</i> | Vepa | Meliaceae | Tree | Medicinal, Sacred |
| 14 | <i>Tecoma stans</i> | Suvarnaganneru | Bignoniaceae | Tree | Ornamental, medicinal |
| 15 | <i>Murayya koenigii</i> | Curry leaves | Rutaceae | Tree | Economic, medicinal |
| 16 | <i>Asystacia gangetica</i> | | Acauthaceae | Climber | Weed, medicinal |
| 17 | <i>Carica papaya</i> | Papaya | Caricaceae | Tree | Edible, medicinal. |
| 18 | <i>Andrographis paniculata</i> | Nelavemu | Acanthaceae | Herb | Medicinal Weed |
| 19 | <i>Melia azadirachta</i> | Tnurakavepa | Meliaceae | Tree | Medicinal |
| 20 | <i>Trianthema portulacastum</i> | Pigweed | Aizoaceae | Herb | Weed, medicinal |
| 21 | <i>Citrus iemon</i> | Lemon | Rutaceae | Tree | Edible, medicinal |
| 22 | <i>Millingtonia hortensis</i> | Punnaga | Bignoniaceae | Tree | Ornamental |
| 23 | <i>Amaranthus viridis</i> | Thotakura | Amaranthaceae | Herb | Edible |

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|----|-------------------------------|-----------------|---------------|---------|-----------------------|
| 24 | <i>Vernonia cinerea</i> | | Asteraceae | Herb | Weed , medicinal |
| 25 | <i>Achyranthes aspera</i> | Uttareni | Amaranthaceae | Shrub | Medicinal,sacred |
| 26 | <i>Antigonon leptopus</i> | Coral vine | Polygonaceae | Twiner | Ornamental, medicinal |
| 27 | <i>Sida cordifolia</i> | Chirubunda | Malvaceae | Herb | Weed, medicinal |
| 28 | <i>Sida acuta</i> | Wire weed | Malvaceae | Herb | Weed, medicinal |
| 29 | <i>Amaranthus spinosus</i> | Mulbathota | Amaranthaceae | Herb | Weed, medicinal |
| 30 | <i>Alternanthera sessilis</i> | Ponnagantikura | Amaranthaceae | Herb | Weed, medicinal |
| 31 | <i>Jasminum sambac</i> | Malle(Jasmine) | Okaceae | Shurb | Ornamental, medicinal |
| 32 | <i>Jasminum officinalis</i> | Sannajaji | Okaceae | Climber | Ornamental, medicinal |
| 33 | <i>Coleus ambonicus</i> | Mexican mint | Lamiaceae | Herb | Ornamental, medicinal |
| 34 | <i>Ficus elastica</i> | Rubber plant | Moraceae | Shurb | Ornamental |
| 35 | <i>Tephrosia purpurea</i> | Vempali | Fabaceae | Shurb | Weed, medicinal |
| 36 | <i>Tephrosia villosa</i> | Vempali | Fabaceae | Shurb | Weed, medicinal |
| 37 | <i>Gomphrena globosa</i> | Bogada | Amaranthaceae | Herb | Weed ,medicinal |
| 38 | <i>Croton bonplandianum</i> | Galivanamokka | Euphorbiaceae | Herb | Weed, medicinal |
| 39 | <i>Plumeria alba</i> | Nooruvarahalu | Apocynaceae | Tree | Ornamental |
| 40 | <i>Plumaria rubra</i> | Nooruvarahalu | Apocynaceae | Tree | Ornamental |
| 41 | <i>Commelina benghalensis</i> | | Commelinaceae | Herb | Weed, medicinal |
| 42 | <i>Thevetia nerifolia</i> | Yellow oleander | Apocynaceae | Shrub | Ornamental |
| 43 | <i>Andrographis aniculata</i> | Nelavemu | Acanthaceae | Herb | Weed, medicinal |
| 44 | <i>Aloe vera</i> | Kalabanda | Liliaceae | Shrub | Medicinal |
| 45 | <i>Justicia procumbens</i> | | Acanthaceae | Herb | Weed, medicinal |

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|----|-----------------------------------|------------------------|----------------|---------|------------------------|
| 46 | <i>Nerium oleander</i> | Ganneru | Apocynaceae | Shrub | Ornamental |
| 47 | <i>Musa paradisiaca</i> | Banana | Musaceae | Tree | Edible |
| 48 | <i>Neolamarckia cadamba</i> | Kadamba | Rubiaceae | Tree | Ornamental , sacred |
| 49 | <i>Tabernaemontana divaricata</i> | Nandi vardhanam | Apocynaceae | Shrub | Ornamental |
| 50 | <i>Catharanthus roseus</i> | Billaganneru | Apocynaceae | Herb | Ornamental |
| 51 | <i>Cleome viscosa</i> | Vominta | Capparidaceae | Herb | Weed, medicinal |
| 52 | <i>Ixora coccinea</i> | Vennamuddapulu | Rubiaceae | Shrub | Ornamental |
| 53 | <i>Ocimum sanctum</i> | Basil | Lamiaceae | Shrub | Medicinal |
| | | | | | Sacred |
| 54 | <i>Ocimum basilicum</i> | Sweet basil | Lamiaceae | Shrub | Medicinal, sacred |
| 55 | <i>Ocimum tenuiflorum</i> | Holy basil | Lamiaceae | Shrub | Medicinal, sacred |
| 56 | <i>Ocimum gratissimum</i> | Krishna tulasi | Lamiaceae | Shrub | Medicinal, sacred |
| 57 | <i>Calotropis gigantea</i> | Tellajilledu | Asclepiadaceae | Shrub | Sacred, medicinal |
| 58 | <i>Calotropis procera</i> | (Jilledu)milk weed | Asclepiadaceae | Shrub | Medicinal |
| 59 | <i>Chloris barbata</i> | | Poaceae | Herb | Weed |
| 60 | <i>Chrysanthemum indica</i> | Chamanthi | Asteraceae | Herb | Ornamental |
| 61 | <i>Ruellia tuberosa</i> | Water canon | Acanthaceae | Herb | Weed, medicinal |
| 62 | <i>Evolvulus alicinoideus</i> | Vishnu krantha | Convolvulaceae | Climber | Weed |
| 63 | <i>Piper betel</i> | Betel leaf | Piperaceae | Climber | Medicinal |
| 64 | <i>Rosa indica</i> | Rose | Rosaceae | Shrub | Ornamental |
| 65 | <i>Rosa alba</i> | White rose | Rosaceae | Shrub | Ornamental |

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|----|------------------------------------|---------------|----------------|---------|-----------------------|
| 66 | <i>Capsicum annum</i> | Mirapa | Solanaceae | Herb | Edible, medicinal |
| 67 | <i>Psidium guajaya</i> | Jama | Myrtaceae | Tree | Edible, medicinal |
| 68 | <i>Diffenbachia sequine</i> | Dumb cane | Araceae | Herb | Ornamental |
| 69 | <i>Malvaviscus arboreus</i> | Mirapamandara | Malvaceae | Shrub | Ornamental |
| 70 | <i>Phyllanthes niruri</i> | Nelavsiri | Euphorbiaceae | Herb | Medicinal, weed |
| 71 | <i>Phyllanthes maderaspatensis</i> | Nelavsiri | Euphorbiaceae | Herb | Medicinal, weed |
| 72 | <i>Euphorbia hirta</i> | Asthma plant | Euphorbiaceae | Herb | Weed, medicinal |
| 73 | <i>Artocarpus integrifolia</i> | Jack fruit | Moxaceae | Tree | Edible, medicinal |
| 74 | <i>Chitorea ternatea</i> | Sankhupushpi | Fabaceae | Climber | Ornamental, medicinal |
| 75 | <i>Tagetus patula</i> | Banti | Fabaceae | Herb | Ornamental, medicinal |
| 76 | <i>Borreria hispida</i> | Button weed | Rubiaceae | Herb | Weed , medicinal |
| 77 | <i>Eupatorium perfoliatum</i> | Bone set | Asteraceae | Shurb | Weed, medicinal |
| 78 | <i>Magifera indica</i> | Mango | Anacardiceae | Tree | Edible |
| 79 | <i>Annona squamosa</i> | Sethaphalam | Anacardiceae | Tree | Edible |
| 80 | <i>Cassia angustifolia</i> | Senna tree | Caesalpinaceae | Tree | Ornamental |
| 81 | <i>Cassia auriculata</i> | Thangedu | Caesalpinaceae | Shrub | Weed, medicinal |
| 82 | <i>Fiscus benghalensis</i> | Marri | Moraceae | Tree | Medicinal, sacred |
| 83 | <i>Aegle marmelos</i> | Maredu | Rutaceae | Tree | Medicinal |
| 84 | <i>Premna serratifolia</i> | Headache tree | Lamiaceae | Tree | Medicinal |
| 85 | <i>Prosopis cineraria</i> | Jammichettu | Fabaceae | Tree | Medicina, sacredl |
| 86 | <i>Thespesia populnea</i> | Ganga ravi | Malvaceae | Tree | Medicinal |

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|-----|---------------------------------|----------------|----------------|---------|------------------|
| 87 | <i>Terminalia catapa</i> | Badam | Combretaceae | Tree | Medicinal |
| 88 | <i>Zyziphusj ujuba</i> | Regu | Rhamnaceae | Tree | Medicinal |
| 89 | <i>Hibiscus minieranthus</i> | Nityamalle | Malvaceae | Shrub | Ornamental |
| 90 | <i>Albezzia lebbeck</i> | Thurai | Mimosaceae | Tree | Ornamental |
| 91 | <i>Morinda tinctoria</i> | Thogaru | Rubiaceae | Tree | Ornamental |
| 92 | <i>Bauhinia purpurea</i> | Deva kanchanam | Caesalpinaceae | Tree | Ornamental |
| 93 | <i>Parthenium hysterophorus</i> | Vayyaribhama | Asteraceae | Herb | Weed |
| 94 | <i>Dracaena reflexa</i> | Dracaena | Asparagaceae | Herb | Ornamental |
| 95 | <i>Allamanda cathartica</i> | Yellow trumpet | Apocynaceae | Climber | Ornamental |
| 96 | <i>Allamanda blancheti</i> | Pink trumpet | Apocynaceae | Climber | Ornamental |
| 97 | <i>Codiaeum variegatum</i> | Croton | Euphorbiaceae | Shrub | Ornamental |
| 98 | <i>Commelina beghalensis</i> | Day flower | Commelinaceae | Herb | Weed |
| 99 | <i>Datura metel</i> | Ummetha | Solanaceae | Shrub | Weed |
| 100 | <i>Ricinus communis</i> | Castor | Euphorbiaceae | Shrub | Weed, medicinal |
| 101 | <i>Leucas aspera</i> | Thummi | Lamiaceae | Shrub | Medicinal,sacred |
| 102 | <i>Centella asiatica</i> | Saraswatiaku | Apiaceae | Herb | Weed, medicinal |
| 103 | <i>Crotalaria juncea</i> | Jute | Fabaceae | Shrub | Weed |
| 104 | <i>Acacia melanoxylin</i> | Thumma | Mimosaceae | Tree | Ornamental |
| 105 | <i>Ageratum conyzoides</i> | Chicken weed | Asteraceae | Shrub | Weed |
| 106 | <i>Ocimum americanum</i> | Kukkathulasi | Lamiaceae | Shrub | Weed |
| 107 | <i>Panicum repens</i> | Torpedo grass | Poaceae | Herb | Weed |
| 108 | <i>Oldenlandia umbellata</i> | Diamond flower | Rubiaceae | Herb | Weed |
| 109 | <i>Turnera ulmifolia</i> | Yellow alder | Turneraceae | Herb | Weed |
| 110 | <i>Desmodium gangeticum</i> | Salparni | Fabaceae | Herb | Weed |
| 111 | <i>Heliotropium indicum</i> | Naga danthi | Boraginaceae | Herb | Weed, medicinal |

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|-----|-------------------------------------|----------------|----------------|--------------|-----------------------|
| 112 | <i>Mirabilis jalapa</i> | Chandra kantha | Nyctaginaceae | Shrub | Ornamental, medicinal |
| 113 | <i>Bougainvillea spectabilis</i> | Kagithampulu | Nyctaginaceae | Shrub | Ornamental |
| 114 | <i>Lantana camara</i> | Wild Rage | Verbenaceae | Shrub | Ornamental |
| 115 | <i>Crossandra infundibuliformis</i> | Kanakambaram | Acanthaceae | Shrub | Ornamental |
| 116 | <i>Tribulus terrestris</i> | Palleru | Zygophyllaceae | Herb | Weed |
| 117 | <i>Argemone mexicana</i> | Prickly poppy | Papavaraceae | Herb | Weed |
| 118 | <i>Pavoniae ylanica</i> | Ceylon swamp | Malvaceae | Shrub | Weed |
| 119 | <i>Sesamum indicum</i> | Nuvvulu | Pedaliaceae | Herb | Weed |
| 120 | <i>Cissus quadrangularis</i> | Nalleru | Vitaceae | Shrub | Weed, medicinal |
| 121 | <i>Merrimia tridentata</i> | Merremia | Convolvulaceae | Climber herb | Weed, medicinal |
| 122 | <i>Solanum xanthocarpum</i> | Kantakari | Solanaceae | Herb | Weed |
| 123 | <i>Physalis minima</i> | Budamakaya | Solanaceae | Herb | Weed |
| 124 | <i>Brasica nigra</i> | Mustard | Brassicaceae | Herb | Weed, medicinal |
| 125 | <i>Desmodium triflorum</i> | Tick clover | Fabaceae | Herb | Weed |
| 126 | <i>Boerhavia diffusa</i> | Punarnava | Nyctaginaceae | Climber | Weed, medicinal |
| 127 | <i>Boerhavia erecta</i> | Punarnava | Nyctaginaceae | Climber | Weed, medicinal |
| 128 | <i>Waltheria indica</i> | Sleepy morning | Sterculiaceae | Herb | Weed |
| 129 | <i>Lippia nodiflora</i> | Capeweed | Verbenaceae | Herb | Weed |
| 130 | <i>Pyrostegia venusta</i> | Flame vine | Bignoniaceae | Shrub | Ornamental |

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