

Survey on medicinal plants at Sri Seetharaman Chandra Swamy Temple, Jagadamba Junction, Visakhapatnam, India

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ABSTRACT

A plant survey work has been conducted in Sri Seetharaman 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 herd species here recorded. For every species botanical name, family, like form and its use was given. A very old large Peepal tree, Tulasi vanam and nearly 120 species of medicinal importance are the special attraction of this is the special attraction of this present work.

Keywords: Survey, Plant, herbs and medicinal.

INTRODUCTION

Sri Seetharaman 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 of and collecting the plant species from that area. A detailed observation was undertaken to explore. The least number of species in that small area. Though it is present on the road view explored 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. An 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 enumeration of different species. 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. An 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 enumeration of different species.

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, Rasi, Tulasi, Maredu, Tella Jilledu, 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 is worshiped every day. A Tulasi vanam is being maintained where 56 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 Premna, Maredu, and Jammi etc are also being maintained. The species like Tephrosia purpurea, Tephrosia villosa, Cortesia bonplandiana, Heliotropium indicum like herbs, which are not available here because of it is an undisturbed

area for a long time. Now there are 38 species of ornamental plants are also present. Other normal trees and various shrubs and herbs, hred 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, Apocemaceae, 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 becoming because of the construction work. But large area was left undisturbed. Another important point noticed here is that the plants here is that the plants were healthy and showing larged 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. A treat 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, gynec problems, kidney stones even HIV. The plants are showing antibiotic, antioxidants and health promoter is alkaloids in them. Much work can be concentrated in this aspect in future.

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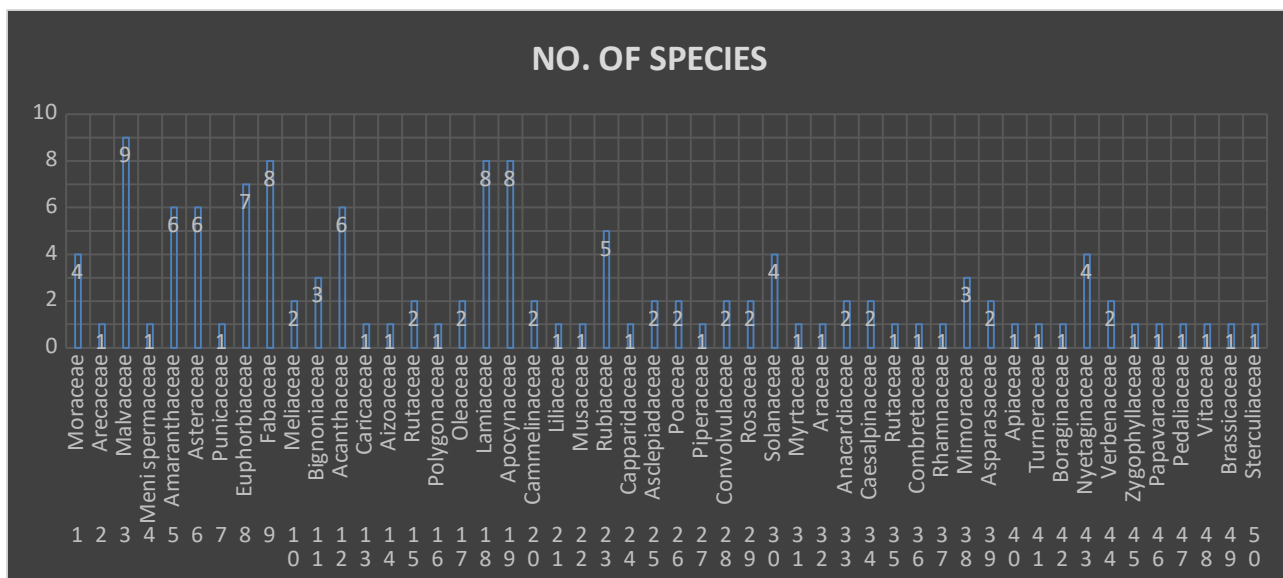


Figure 1: Representing the medicinal plants

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

S.No	BOTANICAL NAME	COMMON NAME	FAMILY	HABIT	USES
1	Ficus religiosa	Raavi	Moraceae	Tree	Medicinal, rel
2	Cocos nucifera	Coconut	Areaceae	Tree	Economical, scared
3	Abutilon indicum	Muturubunda	Malvaceae	Shrub	Weed, medicinal
4	Tinospora cordifolia	Thippatheega	Menispermaceae	Climber	Medicinal
		(Guduchi)			
5	Acalypha indica	Muripinda	Euphorbiaceae	Herb	Medicinal
6	Acalypha lanceolata	Muripinda	Euphorbiaceae	Herb	Medicinal
7	Pongamia pinnata	Kanuga	Fabaceae	Tree	Medicinal
8	Punica granata	Pomegranate	Punicaceae	Tree	Medicinal, economic

9	Tridaxprocumbens	Gaddichamanthi	Asteraceae	Herb	Medicinal,weed
10	Thespesiapopulnea	Ganga ravi	Malvaceae	Tree	Medicinal
11	Amaranthusviridis	Thotakura	Amaranthaceae	Herb	Economic
12	Hibiscusrosasinensis	Mandara	Malvaceae	Tree	Ornamental, Medicinal
13	Azadirachtaindica	Vepa	Meliaceae	Tree	Medicinal,
					Sacred
14	Tecomastans	Suvarnaganneru	Bignoniaceae	Tree	Ornamental, medicinal
15	Murayyakoenigii	Curry leaves	Rutaceae	Tree	Economic, medicinal
16	Asystaciagangetica		Acauthaceae	Climber	Weed, medicinal
17	Carica papaya	Papaya	Caricaceae	Tree	Edible, medicinal.
18	Andrographispaniculata	Nelavemu	Acanthaceae	Herb	Medicinal
					Weed
19	Melia	Tnurakavepa	Meliaceae	Tree	Medicinal
	azadirachta				
20	Trianthemaportulacastum	Pigweed	Aizoaceae	Herb	Weed, medicinal
21	Citrus lemon	Lemon	Rutaceae	Tree	Edible, medicinal
22	Millingtoria	Punnaga	Bignoniaceae	Tree	Ornamental
	Hortensis				
23	Amaranthusviridis	Thotakura	Amaranthaceae	Herb	Edible
24	Vernoniacinerea		Asteraceae	Herb	Weed , medicinal
25	Achyranthesaspe	Uttareni	Amaranthaceae	Shrub	Medicinal,sacred

	ra				
26	Antigonon leptopus	Coral vine	Polygonaceae	Twiner	Ornamental, medicinal
27	Sida cordifolia	Chirubunda	Malvaceae	Herb	Weed, medicinal
28	Sida acuta	Wire weed	Malvaceae	Herb	Weed, medicinal
29	Amaranthus spinosus	Mulbathota	Amaranthaceae	Herb	Weed, medicinal
30	Alternanthera versicolor	Ponnagantikura	Amaranthaceae	Herb	Weed, medicinal
31	Jasminum sambac	Malle (Jasmine)	Okaceae	Shrub	Ornamental, medicinal
32	Jasminum officinale	Sannajaji	Okaceae	Climber	Ornamental, medicinal
33	Coleus amboinicus	Mexican mint	Lamiaceae	Herb	Ornamental, medicinal
34	Ficus elastica	Rubber plant	Moraceae	Shrub	Ornamental
35	Tephrosia purpurea	Vempali	Fabaceae	Shrub	Weed, medicinal
36	Tephrosia villosa	Vempali	Fabaceae	Shrub	Weed, medicinal
37	Gomphrena globosa	Bogada	Amaranthaceae	Herb	Weed, medicinal
38	Croton bonplandianum	Galivanamokka	Euphorbiaceae	Herb	Weed, medicinal
39	Plumeria alba	Nooruvarahalu	Apocynaceae	Tree	Ornamental
40	Plumeria rubra	Nooruvarahalu	Apocynaceae	Tree	Ornamental
41	Commelinabenghalensis		Commelinaceae	Herb	Weed, medicinal
42	Thevetia nerifolia	Yellow oleander	Apocynaceae	Shrub	Ornamental
43	Andrographis paniculata	Nelavemu	Acanthaceae	Herb	Weed, medicinal

44	Aloe vera	Kalabanda	Liliaceae	Shrub	Medicinal
45	Justiciaprocumbens		Acanthaceae	Herb	Weed, medicinal
46	Nerium oleander	Ganneru	Apocynaceae	Shrub	Ornamental
47	Musa paradisiaca	Banana	Musaceae	Tree	Edible
48	Neolamarckiacadamba	Kadamba	Rubiaceae	Tree	Ornamental , sacred
49	Tabernaemontana divaricata	Nandi vardhanam	Apocynaceae	Shrub	Ornamental
50	Catharanthesrosia	Billaganneru	Apocynaceae	Herb	Ornamental
51	Cleoneviscosa	Vominta	Capparidaceae	Herb	Weed, medicinal
52	Ixoracoccinia	Vennamuddapulu	Rubiaceae	Shrub	Ornamental
53	Ocimum sanctum	Basil	Lamiaceae	Shrub	Medicinal
					Sacred
54	Ocimumbasilicum	Sweet basil	Lamiaceae	Shrub	Medicinal, sacred
55	Ocimumtenuiflorum	Holy basil	Lamiaceae	Shrub	Medicinal, sacred
56	Ocimumgratissimum	Krishna tulasi	Lamiaceae	Shrub	Medicinal, sacred
57	Calotropisgigantea	Tellajilledu	Asclepiadaceae	Shrub	Sacred, medicinal
58	Calotropisprocera	(Jilledu)milk weed	Asclepiadaceae	Shrub	Medicinal
59	Chlorusbarbata		Poaceae	Herb	Weed
60	Chrysanthemum indica	Chamanthi	Asteraceae	Herb	Ornamental
61	Ruelliatuberosa	Water canon	Acanthaceae	Herb	Weed, medicinal
62	Evolvulusalycinoid	Vishnu krantha	Convolvulaceae	Climber	Weed

	s				
63	Piper betel	Betel leaf	Piperaceae	Climber	Medicinal
64	Rosa indica	Rose	Rosaceae	Shrub	Ornamental
65	Rosa alba	White rose	Rosaceae	Shrub	Ornamental
66	Capsicum annum	Mirapa	Solanaceae	Herb	Edible, medicinal
67	Psidiumguajara	Jama	Myrtaceae	Tree	Edible, medicinal
68	Diffenbachiasequine	Dumb cane	Araceae	Herb	Ornamental
69	Malvaviscusarborous	Mirapamandara	Malvaceae	Shrub	Ornamental
70	Phyllanthesniruri	Nelavsiri	Euphorbiaceae	Herb	Medicinal,weed
71	Phyllanthesmade raspatensis	Nelavsiri	Euphorbiaceae	Herb	Medicinal,weed
72	Euphorbiahirta	Asthma plant	Euphorbiaceae	Herb	Weed, medicinal
73	Artocarpusintegri folia	Jack fruit	Moxaceae	Tree	Edible, medicinal
74	Chitoreaaternatea	Sankhupushpi	Fabaceae	Climber	Ornamental, medicinal
75	Tagetuspatula	Banti	Fabaceae	Herb	Ornamental, medicinal
76	Borreriahispidia	Button weed	Rubiaceae	Herb	Weed ,medicinal
77	Eupatorium perfoliatum	Bone set	Asteraceae	Shrub	Weed, medicinal
78	Magiferaindica	Mango	Anacardiceae	Tree	Edible
79	Annona squamosa	Sethaphalam	Anacardiceae	Tree	Edible
80	Cassia angustifolia	Senna tree	Caesalpinaceae	Tree	Ornamental
81	Cassia auriculata	Thangedu	Caesalpinaceae	Shrub	Weed, medicinal
82	Fiscusbenghalens	Marri	Moraceae	Tree	Medicinal, sacred

	is				
83	Aegle marmelos	Maredu	Rutaceae	Tree	Medicinal
84	Premnaserratifolia	Headache tree	Lamiaceae	Tree	Medicinal
85	Prosopis cineraria	Jammichettu	Fabaceae	Tree	Medicina,sacredl
86	Thespesiapopulnea	Ganga ravi	Malvaceae	Tree	Medicinal
87	Terminalia catapa	Badam	Combretaceae	Tree	Medicinal
88	Zyziphusjuzuba	Regu	Rhamnaceae	Tree	Medicinal
89	Hibiscus mineranthus	Nityamalle	Malvaceae	Shrub	Ornamental
90	Albezzialebbeck	Thurai	Mimosaceae	Tree	Ornamental
91	Morindatinctorea	Thogaru	Rubiaceae	Tree	Ornamental
92	Bauhinia purpurea	Deva kanchanam	Caesalpinaceae	Tree	Ornamental
93	Parthenniumhysterothorus	Vayyaribhama	Asteraceae	Herb	Weed
94	Dracaena reflexa	Dracaena	Asparagaceae	Herb	Ornamental
95	Allamandacathartica	Yellow trumpet	Apocynaceae	Climber	Ornamental
96	Allamandablancheti	Pink trumpet	Apocynaceae	Climber	Ornamental
97	Codiaeumvariegatum	Croton	Euphorbiaceae	Shrub	Ornamental
98	Commelinabeghalaensis	Day flower	Commelinaceae	Herb	Weed
99	Daturametel	Ummetha	Solanaceae	Shrub	Weed
100	Ricinuscommisus	Castor	Euphorbiaceae	Shrub	Weed, medicinal
101	Leucasaspera	Thummi	Lamiaceae	Shrub	Medicinal,sacred

102	Cenotellaasiatica	Saraswatiaku	Apiaceae	Herb	Weed, medicinal
103	Crotalaria juncea	Jute	Fabaceae	Shrub	Weed
104	Acacia melonoxylan	Thumma	Mimosaceae	Tree	Ornamental
105	Ageratum conyzoides	Chicken weed	Asteraceae	Shrub	Weed
106	Ocimumamericanum	Kukkathulasi	Lamiaceae	Shrub	Weed
107	Panicumrepens	Torpedo grass	Poaceae	Herb	Weed
108	Oldenlandiaumbellata	Diamond flower	Rubiaceae	Herb	Weed
109	Turneraulmifolia	Yellow alder	Turneraceae	Herb	Weed
110	Desmodiumgangeticum	Salparni	Fabaceae	Herb	Weed
111	Heliotropiumindicum	Naga danthi	Boraginaceae	Herb	Weed, medicinal
112	Mirabilis jalapa	Chandra kantha	Nyctaginaceae	Shrub	Ornamental, medicinal
113	Bougainvillea spectabilis	Kagithampulu	Nyctaginaceae	Shrub	Ornamental
114	Lantana camara	Wild Rage	Verbenaceae	Shrub	Ornamental
115	Crossandrafundibuliformis	Kanakambaram	Acanthaceae	Shrub	Ornamental
116	Tribulusterrestris	Palleru	Zygophyllaceae	Herb	Weed
117	Argemonemexicana	Prickly poppy	Papavaraceae	Herb	Weed
118	Pavoniazeylanica	Ceylon swamp	Malvaceae	Shrub	Weed
119	Sesamumindicum	Nuvvulu	Pedaliaceae	Herb	Weed
120	Cissusquandrang	Nalleru	Vitaceae	Shrub	Weed, medicinal

	ularis				
121	Merrimiatriidentata	Merremia	Convolvulaceae	Climber herb	Weed, medicinal
122	Solanumxanthocarpum	Kantakari	Solanaceae	Herb	Weed
123	Physalis minima	Budamakaya	Solanaceae	Herb	Weed
124	Brasicanigra	Mustard	Brassicaceae	Herb	Weed, medicinal
125	Desmodiumtriflorum	Tick clover	Fabaceae	Herb	Weed
126	Boerhaviadiffusa	Punarnava	Nyctaginaceae	Climber	Weed, medicinal
127	Boerhaviaerecta	Punarnava	Nyctaginaceae	Climber	Weed, medicinal
128	Waltheriaindica	Sleepy morning	Sterculiaceae	Herb	Weed
129	Lippianodiflora	Capeweed	Verbenaceae	Herb	Weed
130	Pyrostegiavenusta	Flame vine	Bignoniaceae	Shrub	Ornamental