

Traditional Medicinal Plant Diversity of Penusilanarasimha Wild Life Sanctuary, Eastern Ghats, Andhra Pradesh

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Abstract

Wildlife Sanctuary is climax forests and is the only representatives of natural or near-natural vegetation. These are dedicated to deities or ancestral spirits worshipped by local tribes along with surrounding plants and trees. These are ecosystems by themselves and perform all the ecological functions. The Present study deals with certain Medicinal Plants used by the local people who live in and around the Sri Penusilanarasimha Wild life Sanctuary. 308 species belonging to 92 families are enumerated. Out of 308 species Trees are 118 (38%), Herbs 87 (28%), Shrubs 58 (19%), Climbers 39 (13%), Straglers 6 (2%). Fabaceae is the dominant family in the study area with 20 species (16%) and then Rubiaceae occupies second with 18 species (15%). Euphorbiaceae occupies third with 15 species (12%), Caesalpiniaceae occupies with fourth 13 species (11%) and Asteraceae occupies fifth with 10 species (8%).

Keywords: Wildlife sanctuary; Medicinal plants; Ecological functions; Ehanomedicobotany

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Introduction

The entire edifice of an ancient Indian medicine presupposes a fundamental identity between man and nature. The cure of diseases and preservation of health are as old as life itself [1]. All the indigenous remedies whether traditional or modern have originated from folklore, rituals, magic and superstition. In other words the therapeutic hints or measures hold the key to the treasures of knowledge in folk medicine and Ehanomedicobotany.

Study area

Sri Penusilanarasimha wild life sanctuary is located in Nellore district, Andhra Pradesh, The Plateau of Salivandhra Reserve Forest is the highest peak with an elevation of 810 metres. It is characterized by low hills descending on west and east into plains; Yepur and Akilivalasa on the east, Chitvel on the west and ascending sharply towards west as Kokiletikanuma Reserve Forest. It extends an area of 113770.48 hectares (1137.70 Sq.Km). The sanctuary is named after the presiding deity Penusila Narasimha Swamy located inside the Sanctuary. This is located at a distance of 80 km from Nellore town. The Lord Narasimha killed Rakshasa king Hiranyakasipa and imbibed Ugrarupa and appeared in many places. Penchalakona is one such place.

Chenchu tribes believe that one of the tribe's women member Chenchulakshmi is queen of Lord Narasimha [2]. There are seven natural ponds representing Saptharishis. This sanctuary is the good habitat for many endangered and endemic species and a sizeable population of panthers. It lies between 79.27.83' East and 14.0.55' North. Sri Penusila Narasimha wild life sanctuary earlier known as Veligonda Wild life Sanctuary spreads in YSR Kadapa district and Nellore district, Andhra Pradesh. This Sanctuary comprises Turupukonda hills and part of Velikonda hills. This area was first proposed as a Velikonda Wild life Sanctuary soon after the sighting of Critically Endangered Jerdon's Courser on the western slopes of the Turupukonda hills [3]. After Ten Years it was declared as Sri Penusila Narasimha Wild Life Sanctuary.

Materials and Methods

The study was conducted among the local people who are practicing traditional medicine in different villages of Sri Penusilanarasimha wild life Sanctuary [4]. Frequent field trips were carried out during the different seasons in 2013-2016 (**Table 1**). The data (Local Name, Habit, Part used, Mode of preparation and medicinal uses) were collected through interviews and discussions among the local traditional healers in their local language (Telugu). The collected medicinal plants were identified

Table 1: Sri Peninsula Narasimha Wild life sanctuary.

S. No	Botanical Name	Vernacular Name	Family	Habit
1	<i>Abrus precatorius</i> L.	Guriging	Fabaceae	Climber
2	<i>Abutilon hirtum</i> (Lam.) Sweet.	Chinnabenda	Malvaceae	Herb
3	<i>Abutilon indicum</i> (L.) Sweet	Tuthurubendu	Malvaceae	Shrub
4	<i>Acalypha indica</i> L.	Pippentaku	Euphorbiaceae	Herb
5	<i>Acanthospermum hispidum</i> DC.	Semapalleru	Asteraceae	Herb
6	<i>Accasia caesia</i> (L.) Willd.	Raakashi cheeki	Mimosaceae	Climber
7	<i>Accacia catechu</i> (L.f.) Willd.	Sandra	Mimosaceae	Tree
8	<i>Accacia chundra</i> (Rottler) Willd.	Sandrabheda	Mimosaceae	Tree
9	<i>Accacia latronum</i>	Gabbuthumma	Mimosaceae	Tree
10	<i>Accacia leucophloea</i> (Roxb.) Willd.	Tell Thumma	Mimosaceae	Tree
11	<i>Accacia nilotica</i> (L.) Willd.ex.Del	Nallathumma	Mimosaceae	Tree
12	<i>Accacia penneta</i>	Tellachiki	Mimosaceae	Shrub
13	<i>Accacia torta</i> (Roxb.) Craib	Korinda	Mimosaceae	Shrub
14	<i>Achyranthes aspera</i> L.	Uttareni	Amaranthaceae	Herb
15	<i>Actinopteris radiata</i> (Sw.) Link.	Mayurasiki	Pteridaceae	Herb
16	<i>Adenantha pavonia</i> L.	Bandigurivinda	Mimosaceae	Tree
17	<i>Adiantum caudatum</i>	Rajahamsa	Pteridaceae	Herb
18	<i>Aegle marmulus</i> (L.) Corr.	Maredu	Rutaceae	Tree
19	<i>Aerva lanata</i> (L.) Juss.ex.Schult.	Pindikura	Amaranthaceae	Herb
20	<i>Agave americana</i> L.	Kalabanda	Agavaceae	Shrub
21	<i>Alianthus excels</i> Roxb.	Peddamanu	Simarubaceae	Tree
22	<i>Alangium lamarkii</i>	Uduga	Alanginaceae	Tree
23	<i>Alangium salvifolium</i> (L.f.)	Udaga	Alanginaceae	Shrub
24	<i>Albizia amara</i> (Roxb.)	Narlinga	Mimosaceae	Tree
25	<i>Albizia odoratissima</i> (L.f.)	Chindugu	Mimosaceae	Tree
26	<i>Aloe barbedense</i>	Kalamanda	Liliaceae	Herb
27	<i>Alstonia scholaris</i> (L.) R.Br.	Edakulapala	Apocynaceae	Tree
28	<i>Amaranthus spinosus</i> L.	Mullathotakura	Amaranthaceae	Herb
29	<i>Ammania baccifera</i> L.	Agnivendrapaku	Lythraceae	Herb
30	<i>Ampelocissus latifolia</i> (Roxb.)	Adavi draksha	Vitaceae	Climber
31	<i>Ampelocissus tomentosa</i> (Roth) Planchon	Nela Gummadi	Vitaceae	Climber
32	<i>Andrographis paniculata</i> (Burm.f)	Nelavemu	Acanthaceae	Herb
33	<i>Anisochilis carnosus</i> (L.f) Wall.ex.Benth	Buthamshapu	Amaranthaceae	Herb
34	<i>Anogeissus latifolia</i> (Roxb.ex DC.)	Adavi draksha	Vitaceae	Tree
35	<i>Antidesma ghaesembilla</i> Gaertn.	Tellapulicheru	Euphorbiaceae	Tree
36	<i>Angemone mexicana</i> L.	Bhramadandi	Papavaraceae	Herb
37	<i>Argyrena nervosa</i> (Burm.f)	Adavi Gummaddi	Convolvulaceae	Shrub
38	<i>Argyrreria speciosa</i> Sweet.	Ranapala	Convolvulaceae	Shrub
39	<i>Aristolochia indica</i> L.	Nalla eswari	Aristolochiaceae	Climber
40	<i>Aristolochia bracteolata</i> Lam.	Gadidhagadapaku	Aristolochiaceae	Herb
41	<i>Asperagasus gaocladeos</i> Bak.	Peddapilliteegalu	Aristolochiaceae	Shrub
42	<i>Asperagous racemosus</i> Willd.	Pilliteegalu	Aristolochiaceae	Climbing Shrub
43	<i>Atlantia monophylla</i> (Roxb.) DC	Murikinimma	Asteraceae	Tree
44	<i>Atylosia trinerva</i>	Adavikandi	Athyriaceae	Climbing shrub
45	<i>Azadiractha indica</i> A.Juss.	Vepa	Meliaceae	Tree
46	<i>Bacopa monneri</i> (L.) Wettst.	Bramhi	Scrophulariaceae	Herb
47	<i>Balanites aegyotica</i> (L.) Del.	Carechettu	Simarubaceae	Tree
48	<i>Balanites roxburghii</i> Planch.	Gare	Simarubaceae	Shrub
49	<i>Bambusa aurundinaceae</i> Retz.	Veduru	Poaceae	Shrub
50	<i>Barleria prionitis</i> L.	Mundla Gorinta	Acanthaceae	Shrub
51	<i>Barringtonia acutangula</i> (L.) Gaertn	Kadimi	Barringtoniaceae	Tree
52	<i>Bassia latifolia</i> Roxb.	Mahuva	Sapotaceae	Tree
53	<i>Bauhinia racemosa</i> Lam.	Are chettu	Caesalpinaceae	Shrub

S. No	Botanical Name	Vernacular Name	Family	Habit
54	<i>Bauhinia vahli</i> Wt&Arn	Addateega	Caesalpiniaceae	Climber
55	<i>Bauhinia variegata</i> L.	Devakanchanamu	Caesalpiniaceae	Tree
56	<i>Blepharis molluginifolia</i> (Vahl.) Roth	Chinna akshintapalu	Acanthaceae	Herb
57	<i>Boerhavia diffusa</i> L.	Athuku mamidi	Nyctaginaceae	Herb
58	<i>Bombax malabaricum</i> DC.	Burugu	Bombacaceae	Tree
59	<i>Borreria hispida</i> Spruce ex K.Schum	Nugu amara	Rubiaceae	Herb
60	<i>Borreria stricta</i> K.Sch	Amara	Rubiaceae	Herb
61	<i>Boswellia serrata</i> Roxb.ex Colebr.	Anduga	Burseraceae	Tree
62	<i>Bridelia retusa</i> (L.) A.Juss.	Kodi aarechettu	Euphorbiaceae	Tree
63	<i>Bridelia Montana</i> (Roxb.) Willd.	Pariki	Euphorbiaceae	Shrub
64	<i>Buchnanania axilaris</i> (Desr.)	Sara pappu	Anacardiaceae	Tree
65	<i>Buchania lanzan</i> Spr.	Sarepappu	Anacardiaceae	Tree
66	<i>Bulbostylis barbata</i> (Rottb.) C.B.Clarke	Kuchhugaddi	Cyperaceae	Small sedge
67	<i>Butea frondosa</i>	Modugu	Fabaceae	Tree
68	<i>Caesalpinia bonducella</i> (L.) Fleming	Gachha	Caesalpiniaceae	Thorny Straggler
69	<i>Calotropis procera</i> (Aiton) Dryand	Jilledu	Asclepiadaceae	Shrub
70	<i>Canthium dicoccum</i> (Gaertn.)	Nallabalasi	Rubiaceae	Tree
71	<i>Capparis divaricata</i> Lam.	Gudaaremidi	Capparidaceae	Tree
72	<i>Capparis sepiaria</i> L.	Nalla uppi	Capparidaceae	Shrub
73	<i>Capparis zeylanica</i> L.	Aare donda	Capparidaceae	Straggling Shrub
74	<i>Caralluma attenuate</i> (Wight)	Kundetikommu	Asclepiadaceae	Herb
75	<i>Cordia dichotoma</i> G.Frost.	Nakkera	Boraginaceae	Tree
76	<i>Cardiospermum helicacabum</i> L.	Buddateega	Borrigtoniaceae	Climber
77	<i>Careya arborea</i> Roxb.	Buddadarimi	Barringtoniaceae	Tree
78	<i>Carissa spinarum</i> L.	Kalimi	Apocynaceae	Shrub
79	<i>Cassia absus</i> L.	Chakshushya	Caesalpiniaceae	Herb
80	<i>Cassia angustifolia</i> M.Vahl.	Sunamuki	Caesalpiniaceae	Shrub
81	<i>Cassia auriculata</i> L.	Tangedu	Caesalpiniaceae	Shrub
82	<i>Cassia fistula</i> L.	Rela	Caesalpiniaceae	Tree
83	<i>Cassia italica</i> (Mill.) Spreng.	Nela tangedu	Caesalpiniaceae	Herb
84	<i>Cassia occidentalis</i> L.	Kasinta	Caesalpiniaceae	Shrub
85	<i>Cassia tora</i> L.	Kasivinda	Caesalpiniaceae	Herb
86	<i>Cassia albens</i>	Neredu	Celastraceae	Tree
87	<i>Cassine glauca</i> (Rottb.) Kuntze	Nirinji	Celastraceae	Tree
88	<i>Cassytha filiformis</i> L.	Pacchiteega	Lauraceae	Climber
89	<i>Cattaranthus roseus</i> (L.)	Billajemudu	Apocynaceae	Herb
90	<i>Catunaregum spinosa</i> (Thunb)	Manga	Rubiaceae	Shrub
91	<i>Centella asiatica</i> (L.)	Saraswathiakku	Apiaceae	Herb
92	<i>Cissus repens</i> Lamk.	Chiruboddi	Vitaceae	Shrub
93	<i>Cissus quadrangularis</i> L.	Nalleru	Vitaceae	Climber
94	<i>Cissus vitiginea</i> L.	Adavigummadi	Vitaceae	Climber
95	<i>Citrullus colcyntis</i> (L.) Scharder	Verripuchha	Cucurbitaceae	Climber
96	<i>Cleisanthus collinus</i> Benth.	Kodishe	Apocynaceae	Tree
97	<i>Cleome gynandra</i> L.	Vammintaku	Cleomaceae	Herb
98	<i>Clerodendrum serratum</i> (L.) Moon.	Ganitu barangi	Verbanaceae	Herb
99	<i>Coccinia grandis</i> J.Voigt	Dondateega	Cucurbitaceae	Climber
100	<i>Cocculus hirsutus</i> (L.) Theob.	Dusarateega	Menispermaceae	Climber
101	<i>Cochlospermum religiosum</i> (L.) Alston	Kondagogu	Cochlospermaceae	Tree
102	<i>Coleus amboinicus</i> Lour.	Karpuravalli	Lamiaceae	Herb
103	<i>Coleus barbatus</i> (Andrews)	Adavikarivepaku	Lamiaceae	Herb
104	<i>Combretum ovalifolium</i> Roxb.	Suryaduboitte teega	Combretaceae	Shrub
105	<i>Commulina axillaris</i>	Goliagaddi	Commelinaceae	Herb
106	<i>Commelina bengalensis</i> L.	Venna Veduru	Commelinaceae	Herb
107	<i>Commiphora caudate</i> (Wight&Arn)	Konda regi	Burseraceae	Tree

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108	<i>Corallocarpus epigaeus</i>	Aako garuda	Cucurbitaceae	Climber
109	<i>Cordia dichotoma</i> G.Forst	Nekkara	Boraginaceae	Tree
110	<i>Costus speciosus</i> (Koenig) Sm.	Adavi allamu	Costaceae	Herb
111	<i>Crataeva marmelus</i>	Marringamu	Convolvulaceae	Tree
112	<i>Crotalaria verrucosa</i> L.	Tellaeswari	Fabaceae	Herb
113	<i>Ctenolepis garcini</i> (L.) C.B.Clarke	Verridosa	Cucurbitaceae	Climber
114	<i>Cucumis satives</i>	Dosaku	Cucurbitaceae	Creeping vine
115	<i>Curculigo orchoides</i> Gaertn.	Nelathatigadda	Hypoxidaceae	Herb
116	<i>Cycas beddomei</i> Dyer	Perreta	Cycadaceae	Herb
117	<i>Dalbergia latifolia</i> Roxb.	Jitrage	Fabaceae	Tree
118	<i>Dalbergia paniculata</i> Roxb.	Pachhri	Fabaceae	Tree
119	<i>Datura metal</i> L.	Nallaummetha	Solanaceae	Herb
120	<i>Decalepis hamiltonii</i> Wight&Arn.	Barresugandhipala	Asclepiadaceae	Climber
121	<i>Dendrocalamus strictus</i> (Roxb.) Nees	Manchiveduru	Poaceae	Tree
122	<i>Dendrophthoe falcata</i> (L.f.) Entttingsh	Badanika	Loranthaceae	Partial Stem Parasites
123	<i>Desmodium gangeticum</i> (L.) DC.	Shaliparni	Fabaceae	Herb
124	<i>Desmodium pulchellum</i> (L.) Benth.	Dayyapujeda	Fabaceae	Shrub
125	<i>Desmodium triflorum</i> (L.) DC	Munthamamidi	Fabaceae	Herb
126	<i>Dichostachys cinerea</i> (L.) Wight&Arn	Eluthuruchettu	Mimosaceae	Small Tree
127	<i>Dioscorea bulbifera</i> L.	Chenchugadda	Dioscoreaceae	Herb
128	<i>Dioscorea hispida</i>	Magasirigadda	Dioscoreaceae	Herb
129	<i>Dioscorea oppositifolia</i> L.	Ellagadda	Dioscoreaceae	Herb
130	<i>Dioscorea pentaphylla</i> L.	Chinnakaringa	Dioscoreaceae	Herb
131	<i>Dioscorea tomentosa</i>	Nulugadda	Dioscoreaceae	Herb
132	<i>Diospyrus melanoxylon</i> Roxb.	Tunki	Ebenaceae	Tree
133	<i>Diplocyclos palmatus</i> (L.) C.Jeffrey	Linga donda	Cucurbitaceae	Climber
134	<i>Dodonea viscosa</i> (L.) Jacq.	Bandaru	Sapindaceae	Shrub
135	<i>Eclipta alba</i> (L.) Hassk.	Bhurugateega	Asteraceae	Herb
136	<i>Eclipta prostrata</i> (L.)	Gunta Galagara	Asteraceae	Herb
137	<i>Ehretia microphylla</i> Lam.	Pitta peesinki	Ehretiaceae	Tree
138	<i>Elytraria acaulis</i> (L.f.)	Cheppu attaku	Acanthaceae	Herb
139	<i>Entada pursaetha</i> DC.	Jila teega	Mimosaceae	Climber
140	<i>Eriolaena hookeriana</i>	Nara bothuku	Sterculiaceae	Tree
141	<i>Erythroxylon monogynum</i> Roxb.	Devadari	Linaceae	Shrub
142	<i>Euphorbia antiquorum</i> L.	Peddajampu	Euphorbiaceae	Shrub
143	<i>Euphorbia fusiformis</i> Buch.-Ham	Palachepugaddalu	Euphorbiaceae	Herb
144	<i>Euphorbia nivulea</i> Buch.-Ham	Palachettu	Euphorbiaceae	Armed Shrub
145	<i>Evolvulus alsinoids</i> (L.)	Vishnukanta	Convolvulaceae	Herb
146	<i>Ficus banghalensis</i> L.	Marri	Moraceae	Tree
147	<i>Ficus glomerata</i> Roxb.	Medi	Moraceae	Tree
148	<i>Ficus hispida</i> L.f.	Korivi	Moraceae	Small Tree
149	<i>Ficus religiosa</i> L.	Ravi	Moraceae	Tree
150	<i>Ficus virens</i>	Aswartha	Moraceae	Tree
151	<i>Flacourtia indica</i> (Burm.f)	Parika	Flacourtiaceae	Small Tree
152	<i>Fluggea macrophylla</i>	Tellapurugudu	Euphorbiaceae	Shrub
153	<i>Gardenia gummifera</i> L.f.	Bikki	Rubiaceae	Tree
154	<i>Gardenia lucida</i> Roxb.	Kaarringa	Rubiaceae	Tree
155	<i>Gardenia resinifera</i> Roth.	Banka bikki	Rubiaceae	Small Tree
156	<i>Givotia rottleriformis</i> Griff.ex Wight.	Tellapoliki	Euphorbiaceae	Tree
157	<i>Gloriosa superba</i> L.	Kondlukottepulu	Liliaceae	Climber
158	<i>Glossocardia bosvallea</i> (L.f.) DC	Nela samrani	Asteraceae	Herb
159	<i>Glycosmis pentaphylla</i> (Retz.) DC	Golugu	Rutaceae	Small Tree
160	<i>Gmelina arborea</i> Roxb.	Gummudutepu	Verbanaceae	Tree
161	<i>Grewia flavescens</i> Juss.	Koyyajana	Tiliaceae	Tree
162	<i>Grewia hirsuta</i> Vahl	Chinnajana	Tiliaceae	Shrub

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163	<i>Grewia tillifolia</i> Vahls	Errajana	Tilliaceae	Small Tree
164	<i>Grewia villosa</i> Willd.	Bantha	Tilliaceae	Shrub
165	<i>Gymnema sylvestris</i> (Retz.)	Podapathri	Asclepiadaceae	Climber
166	<i>Gyrocarpus americanus</i> Jacq	Errapoliki	Gyrocarpaceae	Tree
167	<i>Haldina cordifolia</i> (Roxb.)	Batta ganapa	Rubiaceae	Tree
168	<i>Hardwickia binata</i> Roxb.	Caesalpinaceae	Yepi	Tree
169	<i>Helicteres isora</i> L.	Nuli thada	Sterculiaceae	Tree
170	<i>Hemidesmus indicus</i> (L.)	Manchisughandapala	Asclepiadaceae	Herb
171	<i>Hibiscus ovalifolius</i> (Forssk.) Vahl.	Nithyamalli	Malvaceae	Shrub
172	<i>Holarrhena antidysenterica</i>	Istaripalla	Apocynaceae	Tree
173	<i>Holoptelia integrifolia</i> Planch.	Tapsi	Ulmaceae	Tree
174	<i>Hybanthus enneaspermus</i> (L.) F.Muell	Rathna Purusha	Violaceae	Herb
175	<i>Hyptis suaveolens</i> (L.) Poit.	Seema thulasi	Hypoxidaceae	Shrub
176	<i>Ichnocarpus frutescens</i> L.	Palateega	Apocynaceae	Straggler
177	<i>Indigofera cordifolia</i> Heyne ex Roth	Nelaparu	Fabaceae	Herb
178	<i>Indigofera linnaei</i> Ali.	Nelavempalli	Fabaceae	Herb
179	<i>Indigofera tinctoria</i> L.	Neelichettu	Fabaceae	Shrub
180	<i>Ipomea mauritiana</i> Jacq.	Nela Gummati	Convolvulaceae	Climber
181	<i>Ipomea obscura</i> L.	Poda tutti	Convolvulaceae	Climber
182	<i>Ixora arborea</i> Roxb.	Korivi	Rubiaceae	Shrub
183	<i>Jasminum auriculatum</i> Vahl	Garuda malli	Oleaceae	Shrub
184	<i>Jasminum pubescens</i> Willd.	Poda malli	Oleaceae	Shrub
185	<i>Jatropha curcas</i> L.	Nepaalamu	Euphorbiaceae	Small Tree
186	<i>Jatropha gossipifolia</i> L.	Nepalam	Euphorbiaceae	Shrub
187	<i>Justicia procumbens</i>	Podapapu	Acanthaceae	Herb
188	<i>Justicia tranquebariensis</i> Linn.	Cheekarachettu	Acanthaceae	Herb
189	<i>Kydia calycina</i> Roxb.	Bottuka	Malvaceae	Tree
190	<i>Lannea coromandelica</i> (Houtt.) Merr.	Gumpena	Anacardiaceae	Tree
191	<i>Lantana camara</i> L.	Korinda	Verbanaceae	Shrub
192	<i>Lawsonia inermis</i> L.	Gorintaku	Lythraceae	Small Tree
193	<i>Leptadenia reticulata</i> (Retz.)	Guttipala	Asclepiadaceae	Climber
194	<i>Leonotis nepatifolius</i> (L.) R.Br.	Ranabheri	Lamiaceae	Herb
195	<i>Lepidagathis cristata</i> Willd.	Mulla banthi	Acanthaceae	Herb
196	<i>Luecas aspera</i> (Willd.) Link.	Thummi	Lamiaceae	Herb
197	<i>Limnophila indica</i> (L.) Druce	Buradabakkena	Lamiaceae	Herb
198	<i>Limonia acidissima</i> Groff.	Velaga	Rutaceae	Tree
199	<i>Lindernia crustacea</i> (L.) F.V.Muell	Verlakammi	Scrophulariaceae	Herb
200	<i>Luffa acutangula</i> (L.) Roxb.	Beera	Cucurbitaceae	Climber
201	<i>Madhuca indica</i> J.F.Gmel.	Ippa	Sapotaceae	Tree
202	<i>Mangifera indica</i> L.	Mamidi	Anacardiaceae	Tree
203	<i>Mallotus philipensis</i> (Lam.)	Sindhurachettu	Euphorbiaceae	Tree
204	<i>Martynia annua</i> L.	Telugondi	Martyniaceae	Shrub
205	<i>Maytenus emerginata</i> (Willd.)	Danthi	Celastraceae	Tree
206	<i>Melhanis incana</i> Heyne ex Wight&Arn	Talak	Sterculiaceae	Herb
207	<i>Melia azadirachta</i> L.	Neem	Meliaceae	Tree
208	<i>Melothria madaraspata</i>	Nakkadosa	Cucurbitaceae	Climber
209	<i>Mimosa pudica</i> L.	Atthipathi	Mimosaceae	Herb
210	<i>Mitragyna parviflora</i> (Roxb.) Korth.	Battaganapa	Rubiaceae	Tree
211	<i>Morinda tinctoria</i>	Togarududu	Rubiaceae	Tree
212	<i>Moringa concanensis</i> Nimmo ex Gibs	Adavi Munga	Moringaceae	Tree
213	<i>Mucuna pruri</i> (L.)	Adavi amudamu	Fabaceae	Climber
214	<i>Murraya koenigii</i> (L.) Spreng	Karivepaku	Rutaceae	Tree
215	<i>Nyctanthus arboreus</i> L.	Paarijatamu	Oleaceae	Small Tree
216	<i>Ochna obtusata</i> DC	Kukkamogi	Ochnaceae	Tree
217	<i>Ocimum sanctum</i> L.	Adavithulasi	Lamiaceae	Herb

S. No	Botanical Name	Vernacular Name	Family	Habit
218	<i>Ola scandens</i> Roxb.	Teeganakkera	Olaceae	Climber
219	<i>Oldenlandia umbellata</i> L.	Amara	Rubiaceae	Herb
220	<i>Opilia amentacea</i> Roxb.	Pacha nachari	Opiliaceae	Shrub
221	<i>Opuntia dillenii</i> (Ker Gawl.)	Nagajamudu	Opuntiaceae	Shrub
222	<i>Oroxylum indicum</i> (L.) Kurz.	Pampana	Bignoniaceae	Tree
223	<i>Oxalis corniculata</i> L.	Puli chintaaku	Oxalidaceae	Herb
224	<i>Coccolus hirsutus</i> (L.) Taeob	Pedda dusara	Menispermaceae	Climber
225	<i>Parthenium hysterophorus</i> L.	Pichhibangaaku	Asteraceae	Herb
226	<i>Passiflora foetida</i> L.	Tellajumki	Passifloraceae	Climber
227	<i>Pavetta indica</i> L.	Papidi	Rubiaceae	Small Tree
228	<i>Pavetta tomentosa</i> Roxb.	Pamidichettu	Rubiaceae	Tree
229	<i>Pavonia odorata</i> Willd.	Karubenda	Malvaceae	Herb
230	<i>Phoenix humilis</i>	Kondaeetha	Palmae	Tree
231	<i>Phyllanthus amarus</i> Schumacher & Thonn.	Nelausiri	Euphorbiaceae	Herb
232	<i>Phyllanthus emblica</i> L.	Usiri	Euphorbiaceae	Tree
233	<i>Phyllanthus reticulatus</i> Poir.	Pulichaare	Euphorbiaceae	Shrub
234	<i>Physalis minima</i> L.	Boddakasi	Solanaceae	Herb
235	<i>Piper attenuatum</i> B. Ham	Pipilli	Piperaceae	Climber
236	<i>Piper nigrum</i> L.	Vamu	piperaceae	Shrub
237	<i>Pithecolobium dulce</i> (Roxb.)	Cheemachinta	Mimosaceae	Tree
238	<i>Plecosperrmium spinosum</i> Trec	Korriti chettu	Moraceae	Shrub
239	<i>Plectronia parviflora</i> Bedd.	Balasu	Rubiaceae	Shrub
240	<i>Plumbago zeylanica</i> L.	Tellachitramulam	Plumbaginaceae	Herb
241	<i>Polygala chinensis</i> auct. non L.	Nela jamudu	Polygalaceae	Herb
242	<i>Pongamia pinnata</i> (L.) Pierre	Kanuga	Fabaceae	Tree
243	<i>Premna tomentosa</i> Willd.	Adavimamidi	Verbanaceae	Tree
244	<i>Prosopis cineraria</i> (L.) Druce.	Jammi	Mimosaceae	Tree
245	<i>Prosopis juliflora</i> (Sw.) DC.	Kampachettu	Mimosaceae	Tree
246	<i>Pterocarpus marsupium</i> Roxb.	Pedayeygi	Fabaceae	Tree
247	<i>Pterocarpus santalinus</i> L.f.	Raktha chandanam	Peapillinaceae	Tree
248	<i>Pueraria tuberosa</i> (Willd.) DC	Chenchugadda	Fabaceae	Climber
249	<i>Punica granatum</i> L.	Danimma	Punicaceae	Tree
250	<i>Pupalia lappacea</i> (L.) A. Juss	Tella uttarenii	Amaranthaceae	Shrub
251	<i>Randia dumetorum</i> (Retz.) Lam.	Manga	Rubiaceae	Shrub
252	<i>Randia spinosa</i> (Thunb.) Tirv.	Manga	Rubiaceae	Shrub
253	<i>Randia uliginosa</i> DC.	Jamabikki	Rubiaceae	Tree
254	<i>Rhinacanthus communis</i>	Amudapu gingalu	Acanthaceae	Shrub
255	<i>Rivea hypocrateriformis</i> (Desr.) Choisy	Teega boddi	Convolvulaceae	Climber
256	<i>Sansveria roxburghiana</i> Schult. & Schult. f.	Saganara	Liliaceae	Herb
257	<i>Santalum album</i> L.	Srregandhamu	Santalaceae	Tree
258	<i>Sapindus emarginatus</i> Vahl.	Kunkudu	Sapindaceae	Tree
259	<i>Sarcostemma acidum</i> (Roxb.) J. Voigt	Pandarijamudu	Asclepiadaceae	Shrub
260	<i>Selaginella wightii</i>	Sanjeevani	Pteridophyte	Herb
261	<i>Sesbania sesban</i> (L.) Merr.	Somanthi jiluga	Fabaceae	Tree
262	<i>Shorea talura</i> Roxb.	Jala	Dipterocarpaceae	Tree
263	<i>Shorea tumbaggia</i> Roxb.	Tamba	Dipterocarpaceae	Tree
264	<i>Sida cordifolia</i> L.	Chirubenda	Malvaceae	Herb
265	<i>Solanum nigrum</i> L.	Kamanchi	Solanaceae	Herb
266	<i>Solanum surattense</i> Burm. f.	Mulla vankaya	Solanaceae	Herb
267	<i>Solanum torvum</i>	Vusti	Solanaceae	Shrub
268	<i>Solanum trilobatum</i> L.	Mullavankaya	Solanaceae	Climber
269	<i>Solanum xanthocarpum</i> Schrad. & H. Wendl.	Munaga	Solanaceae	Herb

S. No	Botanical Name	Vernacular Name	Family	Habit
270	<i>Sopubia delphinifolia</i> (L.) G.Don.	Edintha jada	Scrophulariaceae	Herb
271	<i>Somida febrifuga</i> (Roxb.) A.Juss.	Yegi	Meliaceae	Tree
272	<i>Sterculia urens</i> Roxb.	Thapsi	Sterculiaceae	Tree
273	<i>Striga asiatica</i> (L.) Kuntze	Taathi badanika	Scrophulariaceae	Herb
274	<i>Strychnos-nuxvomica</i> L.	Musti	Loganiaceae	Tree
275	<i>Strychnos potatorum</i> L.f.	Chilla	Loganiaceae	Tree
276	<i>Syzygium alternifolium</i> (Wight) walp.	Mogi	Myrtaceae	Tree
277	<i>Syzygium cumini</i> (L.)	Nallaneredu	Myrtaceae	Tree
278	<i>Tamarindus indica</i> L.	Chinta	Caesalpinaceae	Tree
279	<i>Tephrosia hirta</i>	Tellavemapali	Fabaceae	Herb
280	<i>Tephrosia purpurea</i> (L.) Pers.	Nugu Vemapali	Fabaceae	Herb
281	<i>Terminalia arjuna</i> (Roxb.ex DC.)	Tella maddi	Combretaceae	Tree
282	<i>Terminalia ballerica</i> (Gaertn.) Roxb.	Tandra	Combretaceae	Tree
283	<i>Terminalia chebula</i> Retz.	Karakkaya	Combretaceae	Tree
284	<i>Terminalia pallida</i> Brandis	Karakkaya	Combretaceae	Tree
285	<i>Tinospora cordifolia</i> (Willd.) Miers	Tippateega	Menispermaceae	Climber
286	<i>Todalia asiatica</i> Lam.	Kondakasidha	Rutaceae	Straggler
287	<i>Trianthema portulacastrum</i> L.	Gajerugadda	Aizoaceae	Herb
288	<i>Tridax procumbens</i> L.	Gaddichamanthi	Asteraceae	Herb
289	<i>Tylophora indica</i> (Burm.f)	Mekameyaniakku	Asclepiadaceae	Climber
290	<i>Vanda spathulata</i> (L.) Spr.	Nusti badanika	Orchidaceae	Shrub
291	<i>Vernonia anthelmatica</i>	Chedujeelakarra	Asteraceae	Herb
292	<i>Vernonia cinerea</i>	Sahadevichettu	Asteraceae	Herb
293	<i>Viscum articulatum</i>	Katta badanika	Loranthaceae	Shrub
294	<i>Vitex altissima</i> L.f.	Nemaliadugu	Verbanaceae	Tree
295	<i>Vitex leucoxydon</i> L.f.	Lokki	Verbanaceae	Tree
296	<i>Vitex negundo</i> L.	Nallavavili	Verbanaceae	Shrub
297	<i>Wrightia arborea</i> (Dennst.) Mabber	Rela	Apocynaceae	Tree
298	<i>Wrightia somnifera</i>	Pennerugaddalu	Solanaceae	Shrub
299	<i>Wrightia tinctoria</i> (Roxb.) R.Br.	Doddapalachettu	Apocynaceae	Tree
300	<i>Xanthium strumarium</i>	Marlu mathaghi	Asteraceae	Shrub
301	<i>Ximenia americana</i> L.	Ura nekkera	Olaceae	Shrub
302	<i>Zehnerra maysorensis</i> (Wt.Arn.)	Puttibudama	Cucurbitaceae	Climber
303	<i>Ziziphus jujiba</i>	Gangiregu	Rhamnaceae	Tree
304	<i>Ziziphus rugosa</i> Lam.	Regu	Rhamnaceae	Tree
305	<i>Ziziphus xylopyra</i> (Retz.)	Gotti	Rhamnaceae	Tree
306	<i>Ziziphus oenoplia</i> (L.)	Pariki	Rhamnaceae	Climbing Shrub
307	<i>Zornia diphylla</i> (L.) Pers.	Nakkapeethigaddalu	Fabaceae	Herb
308	<i>Zornia gibbosa</i> Span.	Nelalam	Fabaceae	Herb

taxonomically using “The Flora of Presidency of Madras” (Figures 1 and 2).

Discussion and Conclusion

Wildlife Sanctuary is climax forests and is the only representatives of natural or near-natural vegetation. These are dedicated to deities or ancestral spirits worshipped by local tribes along with surrounding plants and trees [5,6]. These are ecosystems by themselves and perform all the ecological functions. 308 species belonging to 92 families are enumerated. Out of 308 species Trees are 118 (38%), Herbs 87 (28%), Shrubs 58 (19%), Climbers 39 (13%), Stragglers 6 (2%). Fabaceae is the dominant family in the study area with 20 species (16%) and then Rubiaceae occupies

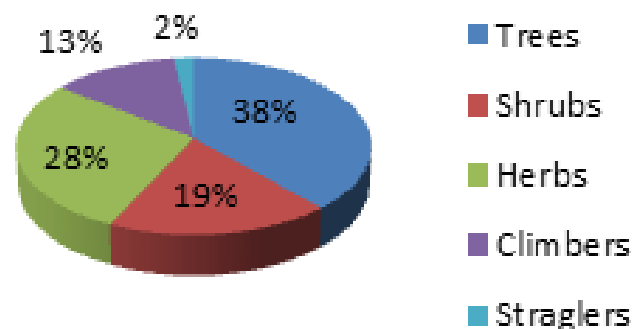
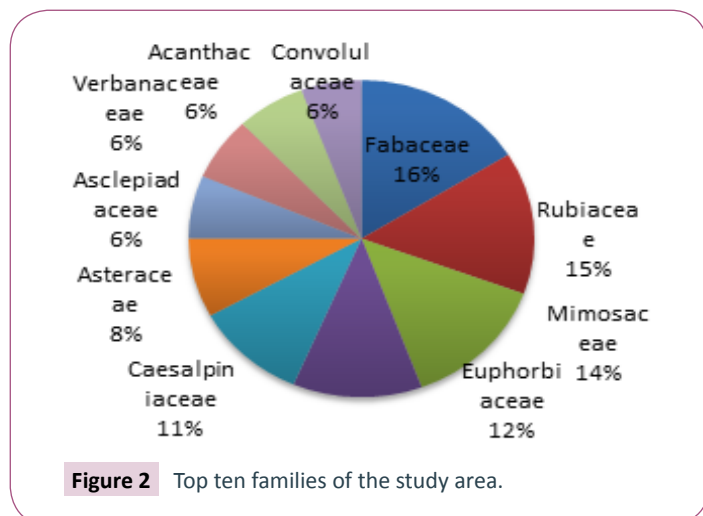


Figure 1 Habit wise analysis of the study area.



second with 18 species (15%). Euphorbiaceae occupies third with 15 species (12%), Caesalpiniaceae occupies with fourth 13 species (11%) and Asteraceae occupies fifth with 10 species (8%).

There is a famous preventive and curative medicine named after the village called 'Gonupalli'. A few families belonging to this village are still engaged in preparing this compound drug

of powders made of several herbs gathered from the forests surrounding the village and sell it to the needy during the weekly bazaar congregations. The main herbs used in the preparation of 'Gonupalli choornam' are: bitters such as *Andrographis paniculata* (Nelvemu), *Encostema hyssopiifolium* (Nela gorimidi), supposed to alleviate fevers burning urination and excessive Urination due to diabetes; nerve tonics such as *Mucuna pruriens* (Doolagondi viththulu), and *Curculigo orchioides* (Nela taadi guddalu) and ferns such as *Adiantum lunulatam* (Hamsapaaci) *Hemionitis arifolia* (Raama baanam) *Actinopteris radiata* (Mayooro sikha)-supposed to be antiviral and immune-modulators.

Tribel people in penchalakona hill range have embarked on doing special rituals to worship medicinal plants called Gonupalli choornam local parlance [7,8]. For the tribal people linge in far flunge areas of the agency collection of the medicinal plants from forest to prepare the choornam is not only a means of eking of livelihood. But a tradition in vogue since centuries. The tribal people attach great importance to this medicine from both the economic and religious point of view. It is known for its rich medicinal values [9]. However the dwindling forest cover and lack of remunerative price for their non-timber forest produce has become a cause of concern for the tribal people. In an effort to promote the age-old traditional occupation.

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