# Diversity and indigenous uses of Some Ethno Medicinal Plants in Papikondalu wild life Sanctuary, Eastern Ghats of Andhra Pradesh, India

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#### ABSTRACT

**Objective:** The main objective of the Present study deals with Ethno medicinal information collected on 173 plants species utilized by the tribal communities of papikondalu wild life sanctuary area.

**Methods:** The Papikondalu wild life sanctuary is thoroughly studied by repeated visits in different seasons of the year 2014 to 2015 covering the pre monsoon, monsoon and post monsoon seasons to cover the overall sperectrum of vegetation. It helps in observing the developmental stages of medicinal plants species like vegetative, flowering and fruiting stages. The plants specimens were collected identified with the help of Flora of Presidency of Madras, Flora of Andhra Pradesh, Forest flora of Andhra Pradesh. The names of tribal doctors, other ethno medicinal knowledge peoples (Tribal men and Women) who have given the ethno medicinal information were recorded.

**Results:** The Present study deals with Ethno medicinal information on 173 plants species , belonging to 148 genera's under 65 families utilized by the tribal communities of papikondalu wild life sanctuary area. Out of which 87 medicinal properties were recorded for human ailments. Out of 65 families 63 families belongs to Dicocts and 2 families are monocots

**Conclusion:** This forest region is good resource and wealth for various flora and fauna, but due to anthropogenic activities, density as well as canopy of the forest was reduced knowingly or unknowingly. It is a high time to have a look on its conservation and management strategies to protect our heritage and forest wealth.

**Keywords-** Diversity, ethno medicinal plants, Papikondalu wild life sanctuary, Therapeutic agents.

#### INTRODUCTION

India is well known as an "Emporium of medicinal plants". About 70% of the rural folk depend on medicinal plants for their health care. India is the largest producer of medicinal plant products and is rightly called the "Botanical garden of World". Since ancient the times. Ethnobotanical use of plants has been known and use of traditional medicine and medicinal plants in most developing countries as therapeutic agents for the maintenance of good health has been widely observed and accepted. The indigenous people of various regions have developed their own way of using plants for their health care and following their own culture, customs, folk songs and food habits. This knowledge is transferred through orally from one generation to another. Over exploitation of trade species, destructive way of collection, vulnerability due to anthropogenic pressures are some of the medicinal major threats to plants. Documentation of indigenous knowledge through ethno botanical studies is important for the conservation and utilization of biological resources<sup>1-4</sup>. The indigenous groups depend either directly or indirectly on the products of the forest for their livelihood and have down the ages, the knowledge about the preserved traditional and cultural uses of plants.<sup>5</sup> The Ethno medicinal studies in Andhra Pradesh have been conducted by Several Authors like<sup>6-9</sup>. The utilization of medicinal plants as a source of medicine amongst the tribal region of Papikondalu wild life sanctuary area has considerably neglected in state of Andhra Pradesh<sup>10-12</sup>. In India, 45,000 plant species have been identified, out of which about 15-20, 000 plants are of good medicinal value<sup>13,14</sup>. About 2, 500 plant species belonging to more than 1,000 genera are used by traditional healers. The World Health Organization estimates that 80% of

the people in developing countries of the world rely on traditional medicine for their primary health care needs, and about 85% of traditional medicine involves the use of plant extract. Traditional medicine is widely used in India, particularly in rural areas, where 70% of the population lives. In India Ayurveda, Unani and Siddha are well popularized traditional medicinal systems for the treatment of various ailments. Therefore the present study focused to assessment the medicinal plants diversity in papikondalu wild life sanctuary of Eastern Ghats of Andhra Pradesh to identify the species richness and Ethno medicinal uses and suggest conservation measures.

#### **STUDY AREA**

Papikondalu wild life sanctuary is spreads over 591Sq kms and across the two districts of East Godavari and West Godavari. This wild life sanctuary is a home to many species of flora and fauna and cuts through the papikonda range of hills in Eastern Ghats. The mountain range is covered with tropical and deciduous rain provide views forests that of the Papikondalu surroundings. wild life sanctuary has museum and an environmental education. The natural vegetation here makes it suitable for animals like tigers, panthers, four-hormed Antelopes, Hyenas, Sloth bear and many migrated birds flock here and make it their shelter for some times generally from May to October. The main vegetation of the region is generally tropical and dry deciduous type. The climate of the Region is typically temperate and consists of 3mainly distinct seasons i.e. summer season, Rainy season and winter season.

#### MATERIALS AND METHODS

The entire area of the Papikondalu wild life sanctuary is thoroughly studied by repeated visits in different seasons of the year 2014 to 2015 covering the pre

monsoon, monsoon and post monsoon seasons to cover the overall sperectrum of vegetation. It helps in observing the developmental stages of medicinal plants species like vegetative, flowering and fruiting stages. The plants specimens were collected identified with the help of Flora of Presidency of Madras,<sup>15</sup> Flora of Andhra Pradesh <sup>16,17,18,19</sup>, Forest flora of Andhra Pradesh<sup>20, 21, 22</sup>. The names of tribal doctors, other ethno medicinal knowledge peoples (Tribal men and Women) who have given the ethno medicinal information were recorded. Plants specimens were collected either with flower or fruit, they were dried and poisoned with saturated solution of mercuric chloride in rectified spirit and herbarium specimens were prepared with their botanical name, vernacular name locality, collector names, voucher specimen number and deposited in the Herbarium of Botany department, Andhra University, Visakhapatnam. The informants were asked question in Telugu language understandable in most of the cases, otherwise in their local languages (Koya language) seeking help of paid local assistance regarding traditional uses of ethno medicinal plants and their local names and distribution. Finally the ethno medicinal information are given in according to Bentham and Hooker classification with other details such as Botanical name, local name, family, life form, used part and medicinal uses in Table-1.

### **RESULTS AND DISCUSSION**

The Present study deals with Ethno medicinal information on 173 plants species , belonging to 148 genera's under 65 families utilized by the tribal communities of papikondalu wild life sanctuary area. Out of which 87 medicinal properties were recorded for human ailments. Out of 65 families 63 families belongs to Dicocts and 2 families are monocots i.e Arecaceae

representing 3 species and Poaceae representing 4 species. Ethno medicinally the most dominant family are Fabaceae with 11 species followed by Euphorbiaceae Caesalpiniaceae, Combretaceae, (8),Apocynaceae and Asclepiadaceae is each (7) Mimosaceae, Rubiaceae and Verbinaceae (6), Malvaceae and Poaceae (5), Rutaceae, Ancardiaceae Asteraceae and Sterculiaceae (4) Capparidaceae Minispermaceae and Meliaceae 3 Species each (Table-1) According to the habitation of plants Trees are the most utilized plants (69) followed by Herbs (45), Climbers(32) Shrubs (25) Epiphytes and Parasites are each one. (Fig-2) Different parts of the medicinal plants are using by the traditional practitioners among them Stem bark(30%) are used for the preparation of medicines predominantly followed by Leaf and Root each(24.7%). whole plant (6.93%), Seeds (6.35%), Fruits(4.04%) and Tubers( 3.40%) Fig-3. Ethno medicinal plants are used in treatment of different diseases in human body such as Malaria, Paralysis, Fever, eye problems, Throat infection, Kidneys problems and teeth problems etc. Most of the species are used for Diarrhoea (10) species followed by rheumatic arthritis and Asthma each (6), Dysentery and Fever (6) Paralysis, Jaundice and Leucorrhoea (5) Epilepsy(4) Stomachache and Peptic ulcers (3), the following details is given by (Table-2&Fig-The area of study is rich in floral 1). diversity with strong traditions of Ethno medicinal practices 1 practices existing among the ethnic communities. Therefore, there is a strong need to take necessary steps for the conservation and sustainable use of these medicinal plants, which are the source of food, herbal medicine and a variety of materials for daily use of the ethnic communities.

#### CONCLUSIONS

This forest region is good resource and wealth for various flora and fauna because of several bioactive compounds are being extracted from traditional medicinal There is a need to create and plants. maintain a database on traditional botanical knowledge of the local inhabitants which helps to conserve the native phytodiversity. Due to anthropogenic activities, density as well as canopy of the forest was reduced knowingly or unknowingly. The present study alarming that, it is a high time to have a look on its conservation and management strategies to protect our heritage and forest wealth. Government So and Non Government organizations should involve in the conservation measures to maintain its glory forever which helps in developing novel drugs to treat ailments.

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#### CONFLICT OF INTEREST

I have read and understood AJETHNO policy on declaration of interests and declare that I have no competing interests.

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S.No	Ailments / Medicinal	No of	S.No	Ailments / Medicinal	No of
	Properties	Species		Properties	Species
1	Abdominal Swelling	1	45	Fluent talk	1
2	Abortion	3	46	Fracture	3
3	Allergy	1	47	Galactagogue	1
4	Amoebic Dysentery	1	48	Gastric trouble	1
5	Anaemia	2	49	Gonorrhoea	1
6	Analgesic	1	50	Haematuria	1
7	Anthelmentic	3	51	Haemorrhage	1
8	Antidote to Animal Bite	1	52	Head ache	2
9	Antifertilit	1	53	Heart Pain	1
10	Asthma	9	54	Heart problems	1
11	Backache, Menorrhagia & Weakness	1	55	Herpes	1
12	Black Quarter Disease in Cattle	1	56	HIV	1
13	Blisters	2	57	Impotency	2
14	Blood Pressure	2	58	Inflammation	1
15	Blood Purifier	1	59	Intestinal Worms	1
16	Body pains	2	60	Jaundice	5
17	Body Swelling	1	61	Leucoderma	1
18	Boils	2	62	Leucorrhoea	5
19	Boils and Blisters	1	63	Malaria	2
20	Bone Fractures	3	64	Muscle Pain	1
21	Bronchitis	1	65	Night Blindness	1
22	Burns	3	66	Obesity	1
23	Chest pain	3	67	Paralysis	5
24	Chickenpox	1	68	Peptic Ulcer	3
25	Cobrabite	1	69	Peripheral Neuritis	1
26	Conception	1	70	Post natal Care	1
27	Constipation	1	71	Purgative	1
28	Cooling affect	1	72	Rheumatoid Arthritis	9
29	Cough and Cold	1	73	Rheumatism	1
30	Cuts	1	74	Scalp infection	1
31	Dandruff	2	75	Scorpion sting	3
32	Diabetes	2	76	Sexual Potency	1
33	Diarrhoea	10	77	Snake Bite	2
34	Dysentery	7	78	Sterility	1
35	Dysmenorrhoea	3	79	Stomachache	3
36	Dysuria	1	80	Stomach pain	1

**Table 1:** Utilization of Medicinal plants in Different types of ailments

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37	Ear diseases	1	81	Stomach Ulcers	1
38	Eczema	1	82	Suicide	1
39	Epilepsy	4	83	Swellings	1
40	Eruptions on the Skin	1	84	Toothache	2
41	Fertility	2	85	White Discharge	1
42	Fever	7	86	Whooping Coug	2
43	Fish Poison	1	87	Wounds	1
44	Fits	1			

 Table 2: Diversity and indeginous uses of Ethnomedicinal Plants

S.No	Family	Plant Name	Lafe form	Local name	Used part	Medicinal uses
1	Rananculaceae	Naravalia zeylanica	Climber	Pullabatchala	Stem	Toothache: Stem is used to cure toothache.
2	Dilleniaceae	Dillenia pentagyna	Tree	Revadi chettu	Stem	<b>Rheumatoid Arthritis:</b> 3 inches of stem bark is crushed with sufficient quantity of salt and the extract is administered orally daily once for 3days.
3	Annonaceae	Annona squamosa	Tree	Seethaphalam	Leaves and Bark	<b>Asthma:</b> 10 leaves and 30 g of bark are boiled in 1 glass of water till it reduces to half glass and given orally once a day till cure.
4	Menispermaceae	Cissampelos pareira	Climber	Adavibankateega	Leaves	<b>Intestinal Worms:</b> Leaves crushed with that of <i>Androgaphis paniculata</i> and <i>Pongamia pinnata</i> and the extract given orally 3 sponfuls thrice a day for
		Cocculus hirsutus	Climber	Dusara teega	Roots	<b>Rheumatoid Arthritis:</b> 12 g o f roots crushed with 2 long pepper seeds are mixed in a cup of goat milk and the extract is taken daily once for a fortnight.
		Tinospora cordifolia	Climber	Tippateega	Tubers	<b>Stomach Ulcers:</b> 3 spoonfuls of tuber extract is given orally twice a day till cure.
5	Pepavaraceae	Argemone mexicana	Herb	Balarakasi	Roots,Seeds and Leaves	<b>Malaria:</b> Roots are ground with seeds and leaves and the extract two spoonfuls is given once a day for 4 days.
6	Capparaceae	Capparis zeylanica	Climber	Adonda	Roots	<b>Paralysis:</b> Root bark ground with aerial root of <i>Ficus benghalensis</i> and tail of garden lizard and the paste is made into pills. 2 pills are given per day for 40 days.
		Cleome gynandra	Herb	Vaminta	whole plant	<b>Peptic Ulcer:</b> 50 ml of the plant juice is given orally once a day for every 3days for about 6 times.
		Cleome viscosa	Herb	Kukkavaminta	whole plant	<b>Peptic Ulcer:</b> 50 ml of the plant juice is given orally once a day for every 3days for about 6 times.
7	Violaceae	Hybanthus enneaspermus	Herb	Ratnapurusha	whole plant	<b>Impotency:</b> 3 spoonfuls of whole plant extract is mixed with goats milk and administered once a day for 30 days.
8	Cochlospermace ae	Cochlospermum religiosum	Tree	Kondagogu	Stem Bark	<b>Bone Fractures:</b> Stem bark is ground into paste and it is plastered over the effected area.
9	Malvaceae	Abutilon indicum	Shrub	Tuttru Benda	Leaf	Scorpion sting: Leaf paste is applied over the spot of scorpior sting
		Pavonia zeylanica	Shrub	Karubenda	Leaf	Purgative: 2-3 leaves are chewed after meals
		Sida acuta	Herb	Nelabenda	Leaf	Scorpion Sting: Leaf paste applied over the bitten part.
		Sida cordata	Herb	Gayapuaku	Leaf	Paralysis: 2 spoonfuls of leaf juice is mixed with goat milk and administered

						twice a day till cure.
		Sida cordifolia	Herb	Chirubenda	Seeds	<b>Sexual Potency:</b> Seeds made into peanut seed size pills. 2 pills are administered once a day for 15 days.
10	Bombacaceae	Bombax ceiba	Tree	Buruga	Roots	Fertility:Root powder taken orally with glass of cow milk increases the fertility
		Ceiba pentandra	Tree	Tella Buruga	Stem bark	White Discharge:50 ml Juice is extracted from stem bark and a pinch of zeera powder and Sugar is mixed to taste and given orally before breakfast in alternate days
11	Sterculiaceae	Helicteres isora	Tree	Melikaya	Roots	<b>Scorpion Sting:</b> Root decoction is given orally immediately after the snake bite.
		Pterospermum xylocarpum	Tree	Lolugu	Stembark	Whooping Coug 2ml of stem bark decoction is given orally once a day for 3days for infants
		Sterculia urens	Tree	Kovelachettu, Tapsi	Stem bark	<b>Rheumatoid Arthritis:</b> Stem bark ground with turmeric and the filtrate is mildly heated and administered in 2 spoonfuls twice a day for 5 days.
		Waltheria indica	Herb	NallaBenda	Leaf	Cough and Cold:Dry leaf powder is boiled in water and used agenist cough
12	Tiliaceae	Grewia tiliaefolia	Tree	Tada	Leaf paste	<b>Fracture</b> : Root bark paste is applied as plaster on dislocated joints of cattle.
13	Zygophyllaceae	Tribulus terrestris	Herb	Palleru	Whole plant	<b>Jaundice:</b> Equal quantities of whole plant <i>Amaranthus tricolor</i> with <i>Tribulus terrestris</i> are made into paste. Two spoonfuls of this paste mixed with cow milk is given on empty stomach for about 7 days.
14	Rutaceae	Aegle marmelos	Tree	Maredu	Leaf paste,Fruit pulp	<b>Diabetes</b> : About 10ml of leaf juice is given with 5 Piper nigrum seeds twice a day for two months
		Chloroxylon swetenia	Tree	Billudu chettu	Stem Bark	<b>Impotency</b> : Root bark extract mixed with goat's milk and administered two spoonfuls twice a day for 15 days.
		Murraya paniculata	Shrub	Kondakarivepaku	Root	<b>Anaemia</b> : The roots mixed with the roots of <i>Toddalia asiatica</i> and grounded to paste and a spoonful of paste is given along with ghee daily for a week.
		Naringi crenulata	Tree	Torrivelaga	Stem Bark	<b>Dysentery</b> : Stem bark crushed with the bark of <i>Strychnos potatorum</i> and the extract is mixed with a pinch of salt and is administered in the doses of 2 spoonfuls twice a day for 5 days.
15	Simaroubaceae	Ailanthes excelsa	Tree	Peddamanu	Stem Bark	Asthma: 30-50ml of bark infusion is administered orally twice daily till cure.
16	Burseraceae	Garuga pinnata	Tree	Garuga	Stem Bark	<b>Stomachache</b> : Stem bark along with the roots of <i>Tridax procumbens</i> and the bark of <i>Butea monosperma</i> and <i>Pterocarpus marsupium</i> taken equal proportions and extract is prepared 10 ml of this extract is given twice a day for 1 day.

17	Meliaceae	Azadirachta indica	Tree	Vepa	Stem Bark	<b>Amoebic Dysentery</b> : Stem bark gum mixed with seeds of <i>Ocimum basilicum</i> is dried and powdered. It is made in decoction. A spoonful decoction is administered daily twice for 3days
		Cipadessa baccifera	Shrub	Paladonda	Leaf	<b>Chickenpox:</b> Leaf juice along with turmeric powder applied externally for the treatment of chickenpox.
		Soymida febrifuga	Tree	Soymida	Root	<b>Dysmenorrhoea</b> : Roots along with <i>Piper nigrum</i> and cow milk are pound to paste and is administered in doses of 2 spoonfuls per a day for 3days.
18	Celastraceae	Celastrus paniculatus	Climber	Jyothismathi	Root Bark	<b>Leucorrhoea</b> : Root bark ground with black pepper grains, 3 ml of extract taken orally once a day for about 2 weeks.
19	Rhamnaceae	Ziziphus mauritiana	Shrub	Reni	Leaves	<b>Body pains:</b> A decoction is made with leaves and bark and is used to take both to treat severe body pains
		Ziziphus oenoplia	Climber	Parimakampa	Stem Bark	<b>Diarrhoea:</b> Pound the stem bark and make pills with the size of 1gm each. 1 pill is given orally thrice in aday for three days.
20	Vitaceae	Ampelocissus latifolia	Climber	Adavi Draksha	Stem Bark	<b>Fever:</b> 5 gms stem bark powder is mixed with water and given orally thrice in a day for 2-3 days
		Cissus quadrangularis	Climber	Nalleru	Stem,Leave s	<b>Fever</b> : Tenders stems and leaves crushed and the extract mixed with breast milk is administered in doses of half spoonful once a day for 3days to infants.
21	Sapindaceae	Cardiospermum helicacabum	Climber	Buddakakara	Leaves	<b>Burns</b> : Leaf paste along with oil of <i>Ricinus communis</i> is applied over the affected parts.
		Sapindus emarginatus	Tree	Kunkudu	Leaves	<b>Cooling affect</b> : Leaves are made into paste and the paste is applied over the head.
		Schleichera oleosa	Tree	Pusika chettu	Stem Bark	<b>Rheumatoid Arthritis</b> : Stem bark along with those of Mangifera indica and <i>Tamarindus indica</i> and seeds of black horse gram (20 g each) are crushed, boiled in 500 ml of water till it is reduced to 100 ml. 1 cup of this decoction is taken daily once for 4 days. Bark is powdered, mixed with water and boiled in earthen pot. The decoction thus obtained is massaged lukewarm on the affected part thrice daily for 4 days. Seed oil is massaged over the affected area till cure.
22	Anacardiaceae	Buchanania lanzan	Tree	Sarapappu,Muralig injalu	Stem bark	<b>Diarrhoea</b> : Stem bark powdered with stem bark of <i>Syzygium cumini</i> one spoonful of this powder is administered twice a day for 3days.
		Lannea coromandelica	Tree	Gumpini	Stem Bark	<b>Gastric trouble</b> : 1 spoonful of stem bark decoction administered twice a day till cure.
		Mangifera indica	Tree	Mamidi	Stem Bark	<b>Fluent talk:</b> Stem bark pound with the root bark of <i>Cleistanthus collinus</i> and tuber of <i>Momordica dioica</i> The paste is used for fluent talk in children.

		Semecarpus anacardium	Tree	Nallajeedi	Seeds	<b>Abdominal Swelling</b> : Seeds ground with onion and the paste is applied over the affected area.
23	Fabaceae	Abrus precatorius	Climber	Guruvinda	Seeds	<b>Abortion</b> : 2 or 3 seeds are ground and the paste is mixed in a glass of water. This is administered once a day before breakfast for 3days.
		Butea monosperma	Tree	Chettumoduga	Bark	<b>Post natal Care:</b> Gum is extracted from the bark is fried with ghee and is administered twice a day for 15 days.
		Butea superba	Climber	Teegamoduga	Stem bark	<b>Haematuria:</b> Stem bark is made into paste. 2 spoonfuls paste is administered on empty stomach once a day for 3days.
		Dalbergia latifolia	Tree	Pachari	Stem Bark	<b>Fever</b> : 2 spoonfuls of stem bark extract is administered twice a day for three days.
		Desmodium gangeticum	Herb	Kolapanna	Leaves	<b>Boils and Blisters:</b> leaves ground with a pinch of salt and the paste is applied on the affected areas till cure.
		Desmodium pulchellum	Shrub	Karra Anthina	Root	<b>Epilepsy:</b> roots are ground with garlic cloves and the paste is made into pills of Bengal gram seed size and the pills are administered in doses of three pills twice a day for about 30 days.
		Mucuna pruriens	Climber	Dulagondi	Root	<b>Dysmenorrhoea:</b> Roots are ground to paste along with roots of <i>Azadirachta indica</i> , stem barks of <i>Chloroxylum swietenia</i> and <i>Holoptelia integrifolia</i> . The paste along with cow milk is administered in the doses of 1 spoonful per day for 5 days.
		Pongamia pinnata	Tree	Kanuga	Stem bark	<b>Peripheral Neuritis:</b> Stem bark ground with the stem barks of <i>Barringtonia acutangula, Calotropis gigantia, Casearia elliptica</i> and rots of <i>Aristida funiculat</i> are made into pills. 2 pills per day are given for 1 week.
		Pterocarpus marsupium	Tree	Yegisha	Stem Bark	<b>Conception:</b> 10g of stem bark ground with that of <i>Mitragyna parvvifolia</i> and the paste made into pea nut seed size pills. 21 pills are administered orally once a day for 7 days.
		Pueraria tuberosa	Climber	Nelagummadi	Tubers	<b>Peptic Ulcers:</b> Tuber extract mixed with little sugar and administered in doses of 2 spoonfuls twice a day till cure.
		Tephrosia purpurea	Herb	Vempalli	Root bark	<b>Paralysis:</b> 1 Spoonful of dried root powder mixed with that of <i>Cassia occidentalis</i> ground with jaggery is administered once a day for 45 days.
24	Caesalpiniaceae	Bauhinia racemosa	Tree	Arechettu	Root bark	<b>Diarrhoea:</b> Five spoonfuls of the root bark extract is administered twice a day for 5 days.
		Bauhinia vahlii	Climber	Addakulu	Root bark	<b>Dysentery:</b> 5 spoonfuls of root extract along with half cup of curd is administered twice a day for 3days.
		Caesalpinia bonduc	Shrub	Gachakayalu	Leaves	<b>Black Quarter Disease in Cattle:</b> The leaves boiled alongwith the leaves of <i>Vitex negundo, Cassia occidentalis, Tinospora cordifolia</i> and <i>Pupalia lappacea</i> and the extract given orally to cattle.

		Cassia auriculata	Shrub	Tangedu	Leaves	<b>Burns:</b> leaves burnt with the feathers of Peacock, and the ash mixed with coconut oil applied on burns.
		Cassia fistula	Tree	Rellachettu	Stem bark	<b>Chest pain:</b> The stem bark extract mixed with the seed oil of <i>Schleichera oleosa</i> 2 spoonfuls of this extract administered once a day for 3days.
		Cassia occidentalis	Herb	Kasitha	Root	<b>Anthelmentic:</b> 2 Spoonfuls of root extract mixed with a pinch of salt and administered thrice a day for 4 days.
		Tamarindus indica	Tree	Chintachettu	Fruits	<b>Backache, Menorrhagia &amp; Weakness:</b> 10 ml of fruit extract mixed with old jaggery in 1:2 ratio is administered twice a day for 7 days.
25	Mimosaceae	Acacia chundra	Tree	Sandra	Stem	<b>Whooping Cough:</b> 10g of stem sap with 2 spoonfuls of mother's milk is administered to children twice a day till cure.
		Acacia leucophloea	Tree	Tella tumma	Stem Bark	Burns: Take 20 gms stem bark powder and apply on burns along with oil.
		Dichrostachys cinerea	Tree	Veluturuchettu	Stem Bark	<b>Paralysis:</b> 10 gms stem bark extract of <i>Dichrostachys cinerea</i> and <i>Abutilon indicum</i> in water is given orally once in a day for week.
		Entada pursaetha	Climber	Peddagacha	Seeds	<b>Rheumatism:</b> Seed coat made into paste and applied externally on the affected parts till cure.
		Mimosa pudica	Herb	Attipatti	Root	<b>Epilepsy:</b> The roots ground with the roots of <i>Mundulea sericea</i> and <i>Mucuna puriens</i> and the powder is mixed with water and is given orally in the doses of 2 spoonfuls for every 15 minutes about 2 times.
		Xylia xylocarpa	Tree	Kondaptangedu	Root bark	<b>Gonorrhoea</b> : 2 spoonfuls of root bark extract is administered orally twice a day for 15 days.
26	Combretaceae	Anogeissus acuminata	Tree	Pachichettu	Stem bark	<b>Dysentery:</b> Stem bark ground with <i>Pithecellobium dulce</i> and paste is made into pills. 3 pills twice are given twice a day for 3 days.
		Anogeissus latifolia	Tree	Sirimanu	Seeds	<b>Snake Bite:</b> Seed paste along with water is administered orally and also applied externally
		Calycopteris floribunda	Climber	Bontha teega	Leaves	<b>Fever:</b> Leaves are ground to make a fine paste and administered with butter to cure malarial fever.
		Terminalia alata	Tree	Nallamaddi	Roots	<b>Fever</b> : Roots are collected in the early morning and tied to the cure intermittent fever
		Terminalia arjuna	Tree	Tellamaddi,Yeruma ddi	Stem bark	<b>Heart problems:</b> A tonic is prepared from the bark of the tree for heart problem.
		Terminalia bellerica	Tree	Tani	Fruits	<b>Asthma:</b> Fruits are ground to power with the fruits of <i>Terminalia chebula</i> , <i>Balanites aegyptiaca</i> ; roots of <i>Aristolochia indica</i> , <i>Rauvolfia serpentina</i> and <i>Syzygium aromaticum</i> . 1 spoonful of powder along with honey is given thrice a day for 30 days.
		Terminalia chebula	Tree	Karakaya	Stem bark	Fish Poison: Crushed stem bark and fruits is administered orally in doses of

						2 spoonfuls
27	Barringtoniaceae	Baringtonia acutangula	Tree	Kanapa	Leaves	Head ache: Leaves made into paste and applied on forehead.
28	Melastomaceae	Memecylon umbellatum	Tree	Alli chettu.	Root bark	<b>Leucorrhoea:</b> 2 spoonfuls of extract of root bark decoction is administered twice a day till cure.
29	Lythraceae	Lagerstroemia parviflora	Tree	Chennagi	Leaves	<b>Dysentery</b> : Tender leaves are ground into paste with pepper grains. This paste in doses of two spoonfuls is administered once a day for 5 days.
		Woodfordia fruticosa	Shrub	Arepuvvu,Pittachet tu	Flowers	<b>Diarrhoea:</b> Dried flower powder is mixed with warm water and is given in doses of two spoonfuls per a day for 3days.
30	Cucurbitaceae	Coccinia grandis	Climber	Kakidonda	Leaf	wounds: Leaf juice is applied on the wounds
		Diplocyclos palmatus	Climber	Lingadonda	Leaves	<b>Fertility:</b> 10ml of leaf decoction administered once a day to induce menses in girls for fertility.
31	Apiaceae	Centella asiatica	Herb	Saraswthiaku	Leaves	<b>Anaemia:</b> Shade dried leaves powder with powder of pepper seeds is given in the dosages of 3 spoonfuls of powder with glass of milk early in the morning for 30 days.
32	Alangiaceae	Alangium salvifoium	Tree	Udugachettu	Stem bark	<b>Paralysis:</b> Stem bark ground to past with <i>Piper nigrum</i> and the past is administered two spoonfuls per day for 7 days.
33	Rubiaceae	Canthium parviflorum	Shrub	Balusu	Leaves	<b>Constipation:</b> Boiled leaves are made into paste and given orally thrice a day for 2 days ays.
		Gardenia gummifera	Tree	Nallaika	Roots	<b>Head ache:</b> Roots are rubbed on stone with coconut oil and extract applied on the head
		Haldinia cordifolia	Tree	Kambamanu	Stem bark	<b>Leucorrhoea:</b> stem bark mixed with that of <i>Sterculia urens</i> , ground, boiled with <i>Piper nigrum</i> , decoction given orally for 9 days. Salt and oil food prohibited during treatment.
		lxora pavetta	Shrub	Korivichettu	Stem bark	<b>Jaundice:</b> 2 spoonfuls of stem bark extract is administered twice a day for 9 days.
		Pavetta indica	Shrub	Papidi	Leaves	Blisters: warm leaf paste applied over the affected parts.
		Tarenna asiatica	Shrub	Pedda papidi	Stem bark	<b>Dysentery:</b> Stem bark crushed with that of <i>Jatropha curcas</i> , 2 spoonfuls of the extract is administered thrice a day for 3days.
34	Asteraceae	Emilia sonchifolia	Herb	Pisapatri	Stem bark	Night Blindness: 10 ml stem bark juice is giveninternally to cure blind ness.
		Tridax procumbens	Herb	Gaddichamanthi	Plant	<b>Jaundice:</b> Plant paste with jaggery is administered in doses of two spoonfuls per day for 7 days.
		Vernonia cinerea	Herb	Garitikamma	Seeds	<b>Leucoderma:</b> A spoonful of seed powder mixed with 2 black pepper fruits is administered once a day for 30 days.
		Xanthium	Herb	Marulamathangi	Roots	<b>Boils:</b> 3ml of root extract is administered once a day for 2 days ays.

		strumarium				
35	Sapotaceae	Madhuca longifolia	Tree	Vippachettu	Roots	<b>Stomach pain:</b> Roots crushed to paste along with the roots of <i>Aristolochia indica, Holarrhena pubescens and Rauvolfia serpentina</i> is made into pills. 2 pills per day is administered till cure.
		Manilkara hexandra	Tree	Palachettu	Stem bark	<b>Body pains:</b> Stem bark with black pepper grain is crushed 2 spoonfuls of the extract is mixed with jaggery and milk and administered twice a day till cure.
36	Ebanaceae	Diospyros chloroxylon	Tree	Ullinda	Leaves	<b>Diarrhoea</b> : Two spoonfuls of leaf juice is given twice a day for 3days.
		Diospyros melanoxylon	Tree	Tunika	Leaves	<b>Diarrhoea:</b> Two spoonfuls of tender leaf juice is administered thrice a day for 5 days.
37	Oleaceae	Nyctanthes arbortristis	Tree	Parijatham	Leaves	<b>Malaria:</b> Decoction of the leaves with black pepper fruits, ginger and pinch of salt is made into a paste and is administered thrice a day for 3days.
38	Apocynaceae	Alstonia venenata	Tree	Eduakulapala	Stem bark	<b>Anthelmintic:</b> Stem bark along with <i>Piper longum</i> is made into an extract and is administered in doses of 5 spoonfuls twice a day for 3days.
		Holarrhena pubescens	Shrub	Peddapala	Stem bark	Asthma: One teaspoonful of bark powder is given orally till cure.
		Ichnocarpus frutescens	Climber	Nallateega	Root	<b>Haemorrhage:</b> Root crushed with <i>Cuminum cyminum</i> and <i>Trachyspermum roxburghianum</i> seeds and the paste with lemon juice is administered once a day for 9 days.
		Rauvolfia serpentina	Herb	Sarpagandhi	Root	<b>Heart Pain:</b> Roots crushed to paste with the roots of <i>Alstonia scholaris</i> , 2 spoonfuls of the paste is administered once a day for 5 days.
		Rauvolfia tetraphylla	Shrub	Patalagaruda	Root bark	<b>Blood Pressure:</b> 6ml decoction of root bark is administered once a day for 7 days.
		Wrightia arborea	Tree	Kodisapala	Bark	Snakebite: Latex, and the bark fiber tide above the bitten spot.
		Wrightia tinctorea	Tree	Kodisapala	Bark	<b>Obesity:</b> Bark along with <i>Cuminum cyminum</i> and garlic is used to reduce weight.
39	Asclepiadaceae	Calotropis gigantea	Shrub	Jilledu	Root	<b>Leucorrhoea:</b> Root decoction with paste of long peppers (3:1) is taken orally.
		Gymnema sylvestre	Climber	Podapatri	Root	<b>Cobrabite:</b> Root pounded with roots of <i>Aristolochia India</i> and <i>Rhinacanthus nasuta</i> . The paste along with infant's urine administered immediately for cobra bite.
		Pergularia daemia	Climber	Dustaputeega	Leaves	<b>Bone Fracture:</b> Leaves ground with that of <i>Plumbago zeylanica</i> and the aerial roots of <i>Vanda tessellate,</i> and the paste plastered over fractured bones.

		Tylophora indica	Climber	Kukkavaminta	Leaves	<b>Asthma:</b> One tender leaf with 3 black pepper fruits is chewed on empty stomach once a day for 30 days.
		Wattakaka volubilis	Climber	Bundiguruja	Leaves	<b>Inflammation:</b> Gently warmed leaves measered with sesamum oil are tied to the part of inflammation.
		Cryptolepis buchanani	Climber	Adavipalateega	Leaves	<b>Galactagogue:</b> 200g of leaf paste is administered once a day for 7-10 days to increase lactation
		Hemidesmus indicus	Climber	Sugandapala	Root	<b>Herpes:</b> Root ground to paste with the roots of <i>Aristolochia indica</i> and tubers of <i>Cyperus rotundus</i> and paste is applied on infected parts.
40	Loganiaceae	Strychnos nux- vomica	Tree	Musti	Stem bark	<b>Asthma:</b> Stem bark is crushed with black pepper and this decoction is administered in doses of 2-3 spoonfuls twice a day for 45 days.
		Strychnos potatorum	Tree	Chillaginjalu	Seeds	<b>Blood Pressure:</b> Seed paste mixed with root paste of <i>Abelmoschus ficulneus</i> and <i>Cuminum cyminum</i> seeds is administered orally for 5 days.
41	Boraginaceae	Coldenia procumbens	Herb	Hamsapadu	Whole plant	<b>Eczema:</b> Plant paste along with that of <i>Eclipta prostrata</i> is applied on the effected parts till cure.
		Cordia dichotama	Tree	Iriki	Stembark	Diarrhoea: 10 ml stem bark decoction is given twice in a day 4-6 days
42	Convolvulaceae	Argyreia nervosa	Climber	Samudrapala	Roots	<b>Rheumatoid Arthritis:</b> A paste of roots made with rice water is applied over the swollen part till cure.
		Evolvulus alsinoides	Herb	Vishnukranthi	Leaves	<b>Jaundice:</b> 2 spoonfuls of leaf paste is mixed with onion bulb paste is administered twice a day for 7 days.
		Evolvulus nummularius	Herb		Whole plant	<b>Fever:</b> Plant crushed with few seeds of <i>Trachyspermum ammi</i> . 1 spoonful of extract is administered twice a day for 3days.
43	Cuscutaceae	Cuscuta reflexa	Herb	Pasiteega	Whole plant	<b>Epilepsy:</b> One spoonful of decoction of the young plant with honey is administered once a day for 7 days.
44	Solanaceae	Datura metel	Herb	Ummetta	Root	<b>Rheumatoid Arthritis:</b> Root crushed with that of <i>Dioscorea bulbifera</i> 2 inches each and the extract is administered twice a day for 5 days.
		Physalis minima	Herb	Budda dusara	Leaf	Ear diseases: 2-3 drops of leaf juice is dropped in the ear.
		Solanum nigrum	Herb	Kamanchi	Whole plant	<b>Swellings:</b> About 250 g of the whole plant (except root) is eaten as a vegetable once a day for 5 days.
		Solanum surettens	Herb	Mullavanga	Seed	<b>Toothache:</b> Seeds are powdered and mixed with turmeric powder and is applied over gums and in between the teeth.
45	Scrophulariaceae	Scoparia dulcis	Herb	Goatweed	Leaf,Root	<b>Dysentery:</b> Leaf/root extract mildly heated and administered in doses of 3 spoonfuls twice a day for 3days.
46	Bignoniaceae	Oroxylon indicum	Tree	Pampinichettu	Root bark,Seeds	Antifertility: Root bark or seeds ground with roots of <i>Spermacoce articularis</i> and the intestine of mangoose and the paste made into pills. 1

						pill is administered after menstruation.
47	Pedaliaceae	Pedalium murex	Herb	Enugupalleru	Leaves	<b>Dysmenorrhoea:</b> Leaves mixed with garlic cloves and black pepper fruits are made into paste. The paste is administered in doses of 2 spoonfuls once a day during menstrual period for 4 days.
48	Martyniaceae	Martynia annua	Shrub	Gaddagoru	Root	<b>Bronchitis:</b> 3 spoonfuls of root decoction administered orally twice a day for 4 days.
49	Acanthaceae	Adhathoda zeylanica	Shrub	Addasaram	Leaves	<b>Asthma:</b> Leaves are groung to make paste and it is mixed with waterand orally once a day for 4-5 days .
		Andrographis paniculata	Herb	Nelavemu	Stem	<b>Asthma:</b> Stem is mixed with that of <i>Gymnema sylvestre</i> and <i>Justicia adhatoda</i> leaves, ground and the infusion is given orally till cure.
50	Verbenaceae	Clerodendrum serratum	Shrub	Chiruteku	Root	<b>Analgesic:</b> 100 g root in one liter of water is boiled down to half one. This decoction in one glassful administered twice a day for 7 days.
		Gmelina arborea	Tree	Gummaditeku	Stem bark	<b>Chest pain:</b> stem bark ground with that of <i>Streblus asper, Careya arborea</i> and <i>Piper nigrum</i> and the paste made into pills, one pill a day is administered for 30 days.
		Gmelina asiatica	Shrub	Sallagummadu	Fruit	<b>Dandruff:</b> The ripe fruit paste applied to scalp 1 hour before bath for 4 weeks.
		Lantana camara	Shrub	Akshintalu pulu	Tender shoots	<b>Rheumatoid Arthritis:</b> 3 teaspoons of tender shoot decoction is administered daily once for a 30 days
		Phyla nodiflora	Herb	Bokkinagu	Whole plant	Stomachache: 50 ml whole plant juice is administred orally
		Vitex negundo	Shrub	Vavila	Leaves	<b>Body Swelling:</b> Leaf paste made into peanut sized pills, 2 pills are administered orally twice a day till cure.
51	Lamiaceae	Hyptis sauveolens	Shrub	Sirnatulasi	Root	Fever: 5ml of root decoction is administered twice a day for 3days.
		Ocimum americanum	Herb	Kukkatulasi	Leaves	<b>Fits:</b> The leaves of this plant along with black pepper fruits and garlic cloves are crushed into a paste and the paste is given in doses of 2 spoonfuls twice a day for 15 days.
52	Nyctaginaceae	Boerhaavia diffusa	Herb	Atikamamidi	Whole plant	<b>HIV:</b> Whole plant of this along with <i>Centella asiatica</i> and <i>Piper longum</i> are mixed in 5:3:2 proportion and ground into paste. The extract thus obtained is administered in doses of 2 spoonfuls twice a day. This increases the haemoglobin content, disease resistance and weight also.
53	Amaranthaceae	Achyranthes aspera	Herb	Uttareni	Seeds	Antidote to Animal Bite: 3 spoonfuls of seed paste mixed in a glass of hot water is administered twice a day as an antidote for bite of any poisonous animal.
		Aerva lanata	Herb	Kondapindikura	Whole plant	<b>Leucorrhoea:</b> 4 spoonfuls of whole plant juice mxed with a pinch of camphor is administered daily twice for 5 days.

54	Aristolochiaceae	Aristalochia indica	Climber	Nallaeswari	Roots	<b>Diarrhoea:</b> Roots ground with the roots of <i>Holarrhena pubescens, Madhuca longifolia, Orthospihon rubicundus</i> and caraway seeds. The paste with water is administered for 5 days.
55	Loranthaceae	Dendrophthoe falcata	Parasites	Badanika	Stem Bark	Asthma: 10-12 g of stem bark powder is administered daily twice for 3days.
56	Euphorbiaceae	Acalypha indica	Herb	Muripindi	Leaves	<b>Jaundice:</b> leaves with leaves of <i>Justicia adhatoda, Eclipta prostrata, Centella asiatica, Phyllanthus amarus, Coccinea indica,</i> and <i>Momordica charantia</i> are taken in equal quantities and ground and made into pills of soapnut seed size. One pill is administered with rice cunjee or butter milk twice a day for 3days.
		Baliospermum montanum	Herb	Kondaamudam	Roots	<b>Stomach ache:</b> The roots are crushed with jaggery and the filtrate is taken orally twice a day for 2 days ays.
		Bridelia retusa	Tree	Anemchettu	Stem bark	<b>Chest pain:</b> Stem bark crushed with that of <i>Butea superba</i> and <i>Lannea coromandelica</i> and the filtrate administered in doses of 1 spoonful twice a day for 3days.
		Cleistanthus collinus	Tree	Kodisa	Stem bark	<b>Suicide:</b> Stem bark or fruits crushed in goat's milk and the extract taken orally for committing suicide.
		Euphorbia hirta	Herb	Pachabotlu	Leaves	<b>Dysentery:</b> 3 spoonfuls of leaf extract mixed with sugar is administered twice a day for 7 days.
		Mallotus philippensis	Tree	Sinduram	Fruit	<b>Anthelmintic:</b> Fruit is made into powder and powder is used for powerful Anthelmintic.
		Phyllanthus amarus	Herb	Nelausiri	Leaves	<b>Scalp infection:</b> The leaves pound with the roots of <i>Andrographis paniculata</i> and the paste is applied over the scalp.
		Phyllanthus emblica	Tree	Usiri	Stem	<b>Bone Fracture:</b> Stem galls ground with leaves of <i>Vanda tessellate</i> and the paste plastered over fractured bones.
57	Ulmaceae	Holoptelea integrifolia	Tree	Nemali chettu	Leaves	Blisters: Leaf made into paste and is applied on the affected parts.
		Trema orientalis	Tree	Bogguchettu	Root bark	<b>Epilepsy:</b> 3 spoonfuls of root bark extract is administered twice a day for 20 days.
58	Moraceae	Ficus benghalensis	Tree	Marrichettu	Fruit	Boils: Latex is applied on the affected parts.
		Ficus religiosa	Tree	Ravichettu	Stem bark	<b>Diarrhoea:</b> 2 spoonfuls of stem bark extract is taken orally once a day for 3days.
		Sterblus aspera	Tree	Barnika	Roots	<b>Rheumatiod Arthritis:</b> Dried roots pounded with the dried roots of <i>Holarrhena pubescens</i> and <i>Piper longum.</i> This powder is mixed with water and boiled along with a bit of earthen pot. This extract is taken orally till cure.

59	Orchidaceae	Vanda tessellata	Epiphytes	Vadanika	Roots	<b>Fractures:</b> Aerial roots are pounded to paste with the stem of <i>Viscum articulatum</i> , stem bark of <i>Litsea glutinosa</i> , tubers of <i>Dioscorea oppositifolia</i> and <i>Dioscorea pentaphylla</i> . The paste along with gingelly oil and blood of black hen is made in to pills, one pill is administered orally once a day for 9 days.
60	Costaceae	Costus speciosus	Herb	Bokachikadumpa	Rhizome	Abortion: 10g of Rhizome paste is administered twice a day for 5 to 7 days.
61	Hypoxidaceae	Curculigo orchiolides	Herb	Nelatadi	Root	<b>Cuts:</b> Roots are made into paste, and the paste is applied on the affected area till cure.
62	Dioscoreaceae	Dioscorea bulbifera	Climber	Adavidumpa	Tubers	<b>Sterility:</b> Tuber paste is used orally from the 4 <sup>th</sup> day of menstruation for a period of 21 days to attain sterility.
		Dioscorea oppositifolia	Climber	Tellagadda	Tubers	<b>Fractures:</b> Tubers ground to paste along with tubers of <i>Dioscorea pentaphylla</i> , stem bark of <i>Litsea glutinosa</i> , aerial root tubers of <i>Vanda tessellata</i> and ste of <i>Viscum articulatum</i> . The paste along with gingerly oil and blood of black hen is made into pills. Two pills are given twice a day for 30 days.
		Dioscorea pentaphylla	Climber	Adaviginusateega	Tubers	<b>Rheumatoid Arthritis:</b> Tuber paste is applied externally over the affected area till cure.
63	Liliaceae	Asparagus racemosus	Climber	Sathavari	Roots	<b>Diabetes:</b> These tuberous roots with tuberous roots of <i>Mirabilis Jalapa</i> , <i>Boerhavia chinesis</i> and roots of <i>Plumbago auriculata</i> are taken in equal quantities and soaked in lime water for 2 days, dreid and powdered. 2 spoonfuls of powder mixed in a glass of cow milk is administered daily twice for 3days.
64	Arecaceae	Borassus flabellifer	Tree	Tadichettu	Stem	<b>Muscle Pain:</b> Stem peelings crushed with root bark of <i>Alangium salvifolium</i> and the filtrate mixed with sugar, two spoonfuls of the mixture is a administered twice a day for 3days
		Caryota urens	Tree	Jilugu	Nuts	<b>Dandruff:</b> Nut powder made into paste applied to the head and bath is taken after one hour for twice a week.
		Cyperus rotundus	Herb	Tungagaddi	Tubers	<b>Diarrhoea:</b> Three or Four of tuberous underground stolons are crushed and the extract along with few drops of honey is taken orally for about 3days.
65	Poaceae	Bambusa arundinacea	Shrub	Veduru	Stem,leaves	<b>Blood Purifier:</b> 5 ml of stem and leaf extract is administered twice a day for 7 days.
		Cynodon dactylon	Herb	Garikagaddi	Leaves	<b>Dysuria:</b> 10 Leaves are pestled with 7 leaves of <i>Zizyphus mauritiana</i> and 7 grains of raw rice and a mixture is prepared by adding 150 ml of water to it. This is taken once in a day for about 10 days.

	Dendrocalamus strictus	Shrub	Sadanapuveduru	Leaves	<b>Abortion:</b> Tender leaves crushed along with seeds of <i>Hibiscus cannabinus</i> 5 spoonfuls of this extract is given orally twice a day for 5 days (Pregnancy upto 3 months).
	Saccharum spantaneum	Herb	Rellagaddi	Root	<b>Eruptions on the Skin:</b> 20 ml root decoction is given orally once a day for 5 days.
	Vetiveria zizanoides	Herb	Vattiveru	Root	Allergy: Roots ground with that of <i>Achyranthes aspera</i> in doses of 10g in one glass of water once a day for 3days.





