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Research Article

AN ETHNOBOTANICAL AND FOLKLORE STUDY OF MEDICINAL PLANTS IN ETURNAGARAM WILDLIFE SANCTUARY AND MALLURU FOREST, TELANGANA

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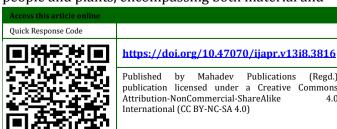
KEYWORDS:

Ethnobotany, Folklore Medicine, Avurveda. Telangana, Biodiversity Conservation, Medicinal Plants.

Ayurveda is rooted in plant-based healing traditions, many of which are still practiced among tribal and rural communities in India. Yet, this knowledge is under threat due to deforestation, modernization, and decline in intergenerational transfer. Ethnobotanical and folklore surveys essential for documentation, conservation, and providing scientific leads for pharmacological validation. Aim and Objectives: Primary objectives: (i) To document the indigenous knowledge of local communities regarding medicinal plants. (ii) To identify and catalogue medicinal plant species with reference to forest type and canopy structure. Secondary objectives: (i) To identify and geo-tag rare and endangered species. (ii) To assess their conservation status. (iii) To explore their potential for modern medicine and sustainable livelihoods. Materials and Methods: Fieldwork was carried out in eight tribal villages using participatory rural appraisal, semi-structur<mark>ed</mark> interviews, and guided field walks. Twenty-five folklore healers (aged 40-75 years) provided information on plant names, parts used, preparation methods, and therapeutic indications. Data were validated through photographs, herbarium specimens, and conservation status as per IUCN and national references. Results: A total of 212 medicinal plant species (165 genera and 69 families) were documented, of which 99% were angiosperms. Growth forms included trees (88), herbs (62), climbers (49), and shrubs (13). About 94% were indigenous, with Fabaceae (27 spp.), Malvaceae (10), and Amaranthaceae (8) as dominant families. Thirty-three species were regularly used, with 15 most frequently applied, mainly for scorpion and insect bites, wound healing, and bone fractures. Applications were chiefly for human medicine (90%), with limited veterinary (8%) and dual (2%) use. **Conclusion:** The study establishes a baseline inventory of ethnomedicinal and folklore plants in the region. It underscores the need for phytochemical validation, digital archiving, and youth engagement. Community-led conservation and integration with Ayurveda can safeguard biodiversity and strengthen future drug discovery.

INTRODUCTION

Human societies have always shared a close relationship with plants, using them for food, shelter, rituals, and especially for medicine. The term ethnobotany, introduced by William Harshberger in 1895, refers to the study of the interactions between people and plants, encompassing both material and



cultural aspects. While modern science has advanced rapidly, traditional plant-based knowledge remains the foundation for many pharmacological discoveries. In India, this legacy is deeply embedded in Ayurveda, Siddha, Unani, and local folklore traditions, making the study of ethnobotany crucial for linking cultural heritage with modern healthcare.[1]

Ethnobotany goes beyond mere documentation of plants; it explores food, fibers, dyes, household uses, and even magico-religious associations. Folklore medicine, a vital branch of ethnobotany, represents orally transmitted knowledge that reflects centuries of trial, error, and observation. Unlike structured systems

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such as Ayurveda, folklore medicine thrives in tribal and rural contexts, adapted to local ecology and community needs. It includes both abstract dimensions- beliefs, taboos, sacred groves- and concrete applications, such as decoctions, pastes, and powders used in everyday healing practices.^[2]

Globally, the World Health Organization estimates that 70–75% of the population in tribal and rural areas depend on medicinal plants for primary healthcare. India, with over 45,000 plant species, is among the richest centers of ethnobotanical knowledge. Around 500 plant species are in routine use by Ayurveda practitioners and industry. Since the 1950s, ethnobotanical research in India has intensified, covering regions from the Himalayas to the Western Ghats. Yet, significant regional gaps remain, particularly in areas where tribal communities possess rich but undocumented plant wisdom. [3]

Eturnagaram Wildlife Sanctuary and Malluru Forest in Telangana form one such ethnobotanical hotspot. Situated near the borders of Telangana, Maharashtra, and Chhattisgarh, these forests are rich in biodiversity, sustained by the river Godavari and seasonal streams. The sanctuary covers about 806 km² of tropical dry deciduous forest, while Mallur Gutta, with 197 hectares, is a designated Medicinal Plant Conservation Area (MPCA). Tribal groups such as the Koyas, Nayakpods, Chenchus, and Lambadas inhabit this region and are custodians of valuable medicinal knowledge.^[4]

Despite this richness. only limited documentation of the ethnomedicinal practices of these tribes has been carried out. Previous studies have focused on botanical listings without highlighting Ayurvedic nomenclature, Sanskrit correlations, or therapeutic interpretations.^[4,5] Traditional healers, locally called folklore healers, hold vast oral knowledge of plant usage, particularly for conditions like scorpion and insect bites, fractures, and skin ailments. However, modernization, deforestation, and cultural shifts have weakened knowledge transfer to the younger generations, putting this intangible heritage at risk.[6]

The present ethnobotanical and folklore study was designed to fill this gap by documenting, cataloguing, and analyzing the medicinal plants used by tribal communities and folklore in Eturnagaram and Malluru regions.[7] It emphasizes both the scientific aspects- such as species identification, conservation status, and usage patterns- and the cultural aspects, including folklore beliefs and oral traditions.[8] By integrating field surveys with literature review, the study seeks to create a baseline record that will aid in biodiversity conservation, strengthen Ayurveda leads future education. and provide for pharmacological research.[9]

AIM AND OBJECTIVE

Objectives of the Study

Primary objectives

- 1. To document the indigenous knowledge of local communities regarding the use of medicinal plants.
- 2. To identify and catalogue the medicinal plant species found in the study area along with the type of forest and canopy structure.

Secondary objectives

- 1. Identification of rare and endangered species in the area and to geo-tag them.
- 2. To assess the conservation status of medicinal plants found in the area.
- 3. To explore the potential of these plants for modern medicine and sustainable livelihoods.

Methodology

Field trips were conducted in the ethnic villages of Eturnagaram Wildlife Sanctuary and Mallur Forest area to document traditional botanical knowledge. Prior informed consent was obtained from tribal communities before data collection. Semi-structured interviews were conducted with folklore healers and community members, and the results were later tabulated and analyzed using standard ethnobotanical methods.

Study Area

Eturnagaram Wildlife Sanctuary– Located in Mulugu District, Telangana; spread over 806 sq. km of tropical dry deciduous forest, rich in biodiversity with trees, shrubs, climbers, and creepers.

Mallur Gutta (Hill)– Located near "Hemachala Laxmi Narasimha Swamy" temple; moist deciduous and dry deciduous forests with grasslands; declared MPCA in 1999–2000, covering ~197 hectares.

Climate: Tropical, temperature $15-45^{\circ}$ C, annual rainfall ~ 1180 mm.

Communities: Mainly Koya and Gond tribes, custodians of rich medicinal plant knowledge.

Data Collection Methodology

Permissions: Obtained from the Principal (A.L. Govt. Ayurvedic Medical College, Warangal) and local Forest Department.

Field Visits: Conducted 3 visits. First visit for permission and trust-building, second and third for interviews and plant collection.

Community Engagement: 8 villages visited out of 18; 25 folklore healers interviewed (both genders). Prior Informed Consent (PIC) was obtained.

Data Collection: Surveys, interviews, plant identification, field observations, geo-tagged photography, herbarium specimen collection.

Villages covered: Kondaparthi, Lavvala, Tadwai, Chalpaka, Manasapalle, Sarvai, Teegalvai, Yellapuram.

Data Analysis

Botanical Identification: With the help of Floras and field knowledge plants categorized by species, family, habit, nativity, and ethnomedicinal value.

Qualitative & Quantitative Analysis: Family Use Value (FUV) calculated based on number of species used in the study area.

Documentation: Data tabulated family-wise with Sanskrit names.

Conceptual Study

Overview of Data Collected

During the field survey conducted across eight tribal villages of Eturnagaram Wildlife Sanctuary and Malluru Forest, a total of 212 medicinal plant species were identified and documented. [10] These species belonged to 165 genera and 69 families, angiosperms forming the predominant group (99%), and a minimal contribution from ferns. The study successfully catalogued trees, shrubs, herbs, climbers, and creepers, reflecting the floristic diversity of the region. [11,12] Local folklore healers provided a detailed useful information on plant names, parts used, preparation methods, and therapeutic applications, supported by geo-tagged photographs and herbarium specimens. [13]

Demographic Data of Informants

The documentation process engaged 25 folklore healers (15 males and 10 females) from eight villages. Informants were aged between 40–75 years, with each village having at least one practicing healer. The communities represented in the study included Koyas, Nayakpods, Chenchus, and Lambadas, who rely on oral traditions to preserve and transmit ethnomedicinal knowledge. The demographic spread revealed that most informants were elderly, highlighting the risk of knowledge loss if not transferred to younger generations.^[14]

Plant Families and Species Distribution

The analysis showed Fabaceae as the most dominant family with 27 species, followed by Malvaceae (10 species), Amaranthaceae (8 species), and Asteraceae (7 species). Euphorbiaceae, Combretaceae, and Rubiaceae contributed six species each. In terms of habit, trees accounted for the largest group (88 species), followed by herbs (62 species), climbers (49 species), and shrubs (13 species). This distribution indicates a strong reliance on perennial tree-based resources along with seasonal herbs and climbers for healthcare needs.^[15]

Patterns of Usage

Out of 212 species, 33 were found to be commonly used across villages, and 15 species emerged as the most frequently applied in remedies.

The therapeutic focus of tribal communities was mainly practical and survival-oriented: scorpion and insect bites, wound healing, bone fractures, fever, cough, diarrhea, and skin diseases were the leading categories. Usage distribution indicated that 90% of plants were employed in human medicine, 8% in veterinary healthcare, and 2% for both purposes. Interestingly, several species used by tribals are considered weeds by farmers, showing a divergence between local ethnomedicinal and agricultural perspectives.^[16]

Preparation and Administration of Remedies

The folklore healers employed simple yet effective preparation methods, including decoctions, pastes, juices, powders, and infusions. Plant parts used most frequently were leaves, followed by roots. bark. fruits, and seeds. Remedies were administered orally, topically, or through inhalation depending on the ailment. For example, Barleria prionitis was used for scorpion bites, Andrographis paniculata for fever, Nyctanthes arbor-tristis for bone fractures, and Gymnema sylvestre for diabetes. Some plants, such as vitiainea and Coccinia grandis, were multipurpose, being used for both food and medicine.[17]

Conservation Status

Of the 212 plants documented, the majority (about 200 species) were listed as Least Concern (LC) according to IUCN and Botanical Survey of India data. Only 2–3 species were categorized as invasive, with no endangered or critically threatened species observed during the survey. However, field observations indicated localized decline of certain species due to deforestation, water scarcity, and unsustainable extraction. Sacred groves such as Mallur Gutta still function as micro-conservation zones, preserving species diversity through cultural taboos against tree felling.^[4,18]

Cultural and Oral Transmission of Knowledge

The ethnobotanical knowledge observed in these villages is predominantly oral and linked with cultural beliefs, rituals, and local folklore. Healers emphasized that botanical knowledge traditionally passed within families or through apprenticeships, without written records. Ritualistic practices, including plant collection during specific lunar phases or offering prayers before harvesting, were commonly noted. However, modernization, urban migration, and allopathic health programs have reduced the practice and transmission of such traditions, particularly among younger members of the community.[4,19]







Plumbago zeylanica L.

Strychnos nux-vomica L.

Terminalia bellirica (Gaertn.) Roxb.



Hybanthus enneaspermus (L.) F.Muell.



Terminalia arjuna (Roxb. ex DC.) Wight & Arn.



Woodfordia floribunda Salisb.



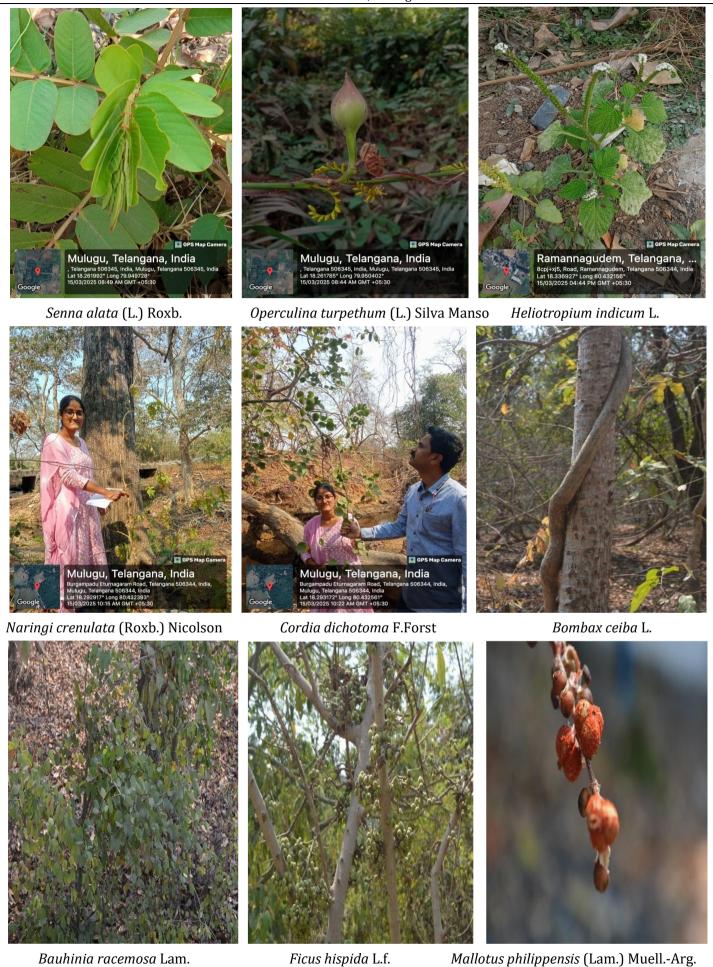
Chloroxylon swietenia DC.



Strychnos potatorum L.f.



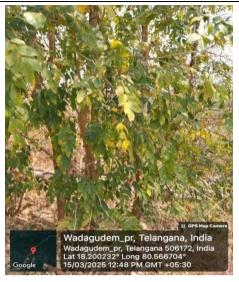
Alangium salviifolium (L.f.) Wangerin











Careya arborea Roxb.

Lagerstroemia parviflora Roxb.







Morinda pubescens Sm.

Ficus virens Aiton

Wrightia arborea (Dennst.) Mabb.







Flemingia macrophylla (Willd.) Merr.

Osbeckia stellata Buch.-Ham. ex Ker Gawl.

Holorrhena pubescens Wall

Research team with the tribal inhabitants at different villages in the study area











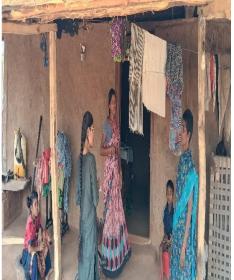










































OBSERVATION AND RESULT

Overall, the tribal community in the study area in all the 8 villages were taken into consideration for both in the folklore remedies and for identification of the medicinal plants. A total of 212 different plant species were listed as medicinal plants from tribals across all these 8 villages. These were predominantly angiosperms (99%) and one or two were ferns. The species used are almost all indigenous (94%) with the few exotics being either planted or naturalized. There were all kinds of habit like trees, shrubs, herbs, climbers and creepers, which were identified with medicinal values. The demographical data as mentioned in the Table 1 shows that folklore healers consisting males and females, who are aged between 40-75 years. All the villages were having atleast one folklore healer in the village. Detailed folklore data is mentioned in Table 5. Each village was consisting around 70-100 members and primary folklore usage of medicinal plants was for scorpion bites, insect bites, wound healing and healing of bone fractures. [20]

Table 1: Demographic information of tribal informants from 8 villages within or near Eturnagaram Wildlife Sanctuary, Telangana and number of informants

S.No.	Village Name	Gender	Number of informants	Age (Years)
1	Kondaparthi	Male	2	60, 65
		Female	1	47
2	Chalpaka	Male	4	40, 45, 50, 75
		Female	1	35
3	Manasapalle	Male	1	56
		Female	2	50, 40
4	Tadwai	Male Maprin	33 1	55
		Female	1	70
5	Teegalwai	Male	है 2	40, 45
		Female	ng 1	50
6	Ellapuram	Male	2	70,60
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Female	2,13	50
7	Lavvala	Male	1	70
		Female	1	40
8	Sarvai	Male	1	65
		Female	3	45, 50, 55

Family-use Index: An index was prepared to identify the top five plant families which offer the most to the medicinal plants cognitive domain of the ethnic inhabitants of the 8 villages amongst 212 plants.^[21]

- 1. Fabaceae / Leguminosae 27 plant taxa
- 2. Malvaceae 10 plant taxa
- 3. Amaranthaceae 8 plant taxa
- 4. Asteraceae 7 plant taxa
- 5. Euphorbiaceae, Combretaceae, Rubiaceae 6 plant species each

Table 2: Description of Families, Genera, Species and Habit of the plants

S.No.	Description	Numbers
1.	Family	69
2.	Genera	165
3.	Species	212
4.	Herbs	62
5.	Shrubs	13
6.	Climbers	49
7.	Tress	88

The present study found that the local people are using both indigenous and exotic species. Most of the species used are by the tribals are considered as weeds by regular farmers. It is observed during the study that the tribals were using these plant species for both humans and their pets (veterinary), around 90% human usage, 8% veterinary and 2% for both. A detailed presentation is made in Table no.3, where in, the available sanskrit name, botanical name, family name, vernacular or local name, habit, ethnobotanical usage and conservation status of the plants were mentioned. Out of 212 plant species only 2-3 plants were under invasive category of conservation and all the other is of under Least concern.^[22]

Table 3: Ethnobotanical Inventory of Medicinal Plants of the study area

S.No.	Sanskrit Name	Botanical Name	Family Name	Vernacular Name	Habit	Ethnobotanical Use	IUCN/ BIS Status
1	Sarahattika/ Nadekanta	Acmella paniculata (Wall. Ex DC.) R.K.Jansen	Acanthaceae	Chinna akkala karra	Herb	Toothache (Fl)	LC
2	Kalamegha	Andrographis paniculata (Burm.f.) Wall. ex Nees	Acanthaceae	Nela vemu	Herb	Dyspepsia, Fever (Wh)	LC
3	Saireyaka	Barleria prionitis L.	Acanthaceae	Vajra danthi, Mulla gorinta	Herb	Scorpion bite (R)	LC
4	Apamarga	Achyranthes aspera L.	Amaranthaceae	Uttareni	Herb	Tooth brush (R)	LC
5	Gorakshaganja	Aerva lanata (L.) Juss.	Amaranthaceae	Pindi kura	Herb	Vegetable for kidney stones, wounds (L)	LC
6	Bhadra	Aerva sanguinolenta (L.) Blume	Amaranthaceae	Konda pindi	Herb	Vegetable (L)	LC
7	Matsyakshi	Alternanthera sessilis (L.) R.Br. ex DC.	Amaranthaceae	P <mark>onn</mark> aganti	Herb	Vegetable (L)	LC
8	Tanduliyaka	Amaranthus spinosus L.	Amaranthaceae	Mulla thotakura	Herb	Appetite stimulant (L)	LC
9	Tanduliya	Amaranthus viridis L.	Amaranthaceae	Chiluka thotakura	Herb	Vegetable (L)	LC
10	Mayurasikha	Celosia argentea L.	Amaranthaceae	Gunugu	Herb	Vegetable (L), worship during Batukamma (I)	LC
11	Kunanjara	<i>Digera muricata</i> (L.) Mart.	Amaranthaceae	Chenchali kura	Herb	Vegetable (L), forage	LC
12	Priyala	Buchanania axillaris (Desr.) Ramamoorthy	Anacardiaceae	Pedda morli	Tree	Edible (K)	LC
13	Rajadana	Buchanania cochinchinensis (Lour.) M.R.Almeida	Anacardiaceae	Morli	Tree	Edible (K)	LC
14	Amra	Mangifera indica L.	Anacardiaceae	Mamidi	Tree	Edible (F)	LC
15	Bhallataka	Semecarpus anacardium L.f.	Anacardiaceae	Nalla jeedi	Tree	Edible (Ps)	LC
16	Sitaphala	Annona squamosa L.	Annonaceae	Sheetal phal	Tree	Edible (F), antilice (Sb)	LC
17	Umbh	Miliusa tomentosa (Roxb.) J.Sinclair	Annonaceae	Barre dudduga	Tree	Building huts (W)	LC
18	Putranjiva	Polyalthia cerasoides (Roxb.) Bedd.	Annonaceae	Chiluka dudduga	Tree	Carpentary (W)	LC

			Manuful Olest, 1c.	langana			
19	-	Anodendron paniculatum A.DC.	Apocynaceae	Athukudu teega	Climber	Bone fracture (Wh)	LC
20	Arka	Calotropis gigantea (L.) Dryand.	Apocynaceae	Jilledu	Shrub	Rheumatism (La), snake bite (R)	LC
21	Meshashringi	<i>Gymnema sylvestre</i> (Retz.) R.Br. ex Sm.	Apocynaceae	Poda patri	Climber	Anti-diabetic (L)	LC
22	Sariva	Hemidesmus indicus (L.) R.Br. ex Schult.	Apocynaceae	Sugandhi pala	Climber	Anti-diarrheal (R)	LC
23	Sariva	Hemidesmus indicus var. pubescens Hook.f.	Apocynaceae	Barre sugandhi pala	Climber	Galactogogue (Wh)	LC
24	Kutaja/ Indrayava	Holarrhena pubescens Wall. ex G.Don	Apocynaceae	Pala kodisha	Tree	Carving toys (W), dysentery (Sb)	LC
25	Shyamalatha/ Krsnasariva	Ichnocarpus frutescens (L.) W.T.Aiton	Apocynaceae	Nalla teega	Climber	Diabetes (R)	LC
26	Dugdhika	Oxystelma esculentum (L.f.) Sm.	Apocynaceae	Dudi pala, chandra valli	Climber	Galactogogue (Wh)	LC
27	Kaakajangha or Nalika	Pergularia daemia (Forssk.) Chiov.	Apocynaceae	Dushtapu teega	Climber	Respiratory disease (Wh)	LC
28	Lata ksiri or Arkaparni	Tylophora indica (Burm.f.) Merr.	Apocynaceae	Mekameyani aku	Climber	Asthma (L)	LC
29	Kutaja	<i>Wrightia arborea</i> (Dennst.) Mabb.	Apocynaceae	Pala	Tree	Carving toys (W)	LC
30	Svetakutaja	Wrightia tinctoria R.Br.	A <mark>poc</mark> ynaceae	Pala	Tree	Carpentary (W)	LC
31	Taro	Colocasia esculenta (L.) Schott	Araceae	Adavi chema	Herb	Edible (corm), juice as hair tonic	LC
32	Taladruma or Tala	Borassus flabellifer L.	Arecaceae	Thati	Tree	Thatching (L), toddy tapping, edible (F, S)	LC
33	Kharjuri	Phoenix loureiroi Kunth	Arecaceae	Jittetha, kondetha	Tree	Thatching (L), toddy tapping, edible (F)	LC
34	Ishwari	Aristolochia indica L.	Aristolochiaceae	Gadida gadapa	Climber	Snake-bite (R)	LC
35	Shatavari	Asparagus racemosus Willd.	Asparagaceae	Pilli teegalu	Climber	Aphrodisiac (R)	LC
36	Sweta musali	Chlorophytum tuberosum (Roxb.) Baker	Asparagaceae	Sarala pagada	Herb	Aphrodisiac (R), vegetable (Fl)	LC
37	-	Adenostemma lavenia (L.) Kuntze	Asteraceae	Adavi jilakara chettu	Herb	Wound healing (Wh), injuries	LC
38	Kukundaa	Blumea axillaris (Lam.) DC.	Asteraceae	Kukka pogaku	Herb	Cuts (L)	LC
39	Bhringraj	Eclipta prostrata (L.) L.	Asteraceae	Gunta galagara	Herb	Hair dye (L)	LC
40	Mundi or Shravani	Sphaeranthus indicus L.	Asteraceae	Bodasaram	Herb	Anti-lice in domestic fowl	LC

				, 2023,13(0).33 7.		(Wh)	
41	Jayanti veda	Tridax procumbens (L.) L.	Asteraceae	Nallaalam	Herb	Hemorrhage, cuts (L)	LC
42	Sahadevi	Vernonia cinerea var. parviflora (Reinw. ex Blume)	Asteraceae	Sahadevi	Herb	Fever (R)	LC
43	Arishta	Xanthium strumarium L.	Asteraceae	Marula matangi	Herb	Galactogogue (L)	LC
44	Mesasrnga or Visanika	Dolichandrone falcata (Wall. ex DC.) Seem.	Bignoniaceae	Voddi, chitti voddi	Tree	Stupifying fish (Sb)	LC
45	Syonaka	Oroxylum indicum (L.) Kurz	Bignoniaceae	Dundilam	Tree	Purgative (S)	LC
46	Patala	Stereospermum chelonoides (L.f.) DC.	Bignoniaceae	Kalagoru	Tree	Fodder (L)	LC
47	Girishalmali	Cochlospermum religiosum (L.) Alston	Bixaceae	Konda gogu	Tree	Gum (Sb)	LC
48	Hastishundi	Heliotropium indicum L.	Boraginaceae	Naga danthi	Herb	Dog bite (L)	LC
49	Sleshmataka	Cordia dichotoma F.Forst.	Boraginaceae	Iriki	Tree	Edible, pickle (F)	LC
50	Shallaki	<i>Boswellia serrata</i> Roxb. ex Colebr.	Burseraceae	Anduga	Tree	Gum-resin (Sb)	LC
51	Karnikarha	Garuga pinnata Roxb.	Burseraceae	G <mark>ar</mark> uga	Tree	Pickle (F)	LC
52	Gridhranakhi	Capparis sepiaria L.	Capparaceae	Nalla uppi	Climber	Laxative (Fl)	LC
53	Vyagranakhi	Capparis zeylanica L.	Capparaceae	Aadonda	Climber	Vegetable, edible (F), dyspepsia (R)	LC
54	Jyotismati	Celastrus paniculatus Willd.	Celastraceae	Malleru teega	Climber	Abortifacient (Sb)	LC
55	Tilaparni	Cleome aspera J.Koenig ex DC.	Cleomaceae	Mulu vaminta	Herb	Cuts (L)	LC
56	Swarnakshira	Cleome felina L.f.	Cleomaceae	Gulabi vaminta	Herb	Vermifuge (L)	LC
57	Ajagandha	Cleome gynandra L.	Cleomaceae	Vaminta	Herb	Head-ache (L)	I
58	_	Cleome monophylla L.	Cleomaceae	Gaddi vaminta	Herb	Insect bite (L)	LC
59	Pasugandha	Cleome viscosa L.	Cleomaceae	Kukka vaminta	Herb	Skin disease (Wh)	LC
60	Langali	Gloriosa superba L.	Colchicaceae	Naabhi	Climber	Paste to cure leprosy (corm)	LC
61	Dhava	Anogeissus latifolia (Roxb. ex DC.) Wall. ex Guillem. & Perr.	Combretaceae	Tiruman	Tree	Timber (W), fodder (L)	LC
62	Sveta dhataki	Gitonia floribunda Roxb.	Combretaceae	Bontha	Climber	Baskets (Sh)	LC
63	Arjuna shyma	Terminalia alata Wall.	Combretaceae	Nalla maddi	Tree	Timber (W)	LC
64	Arjuna	Terminalia arjuna (Roxb. ex DC.) Wight &	Combretaceae	Tella maddi	Tree	Timber (W), cardiac tonic	LC

		Arn.	Manuru i orest, re			(Sb)	
65	Vibhitaki	Terminalia bellirica (Gaertn.) Roxb.	Combretaceae	Tani	Tree	Cough (F)	LC
66	Haritaki	Terminalia chebula Retz.	Combretaceae	Karakkaya	Tree	Cough (F)	LC
67	Vishnukranta	Evolvulus alsinoides (L.) L.	Convolvulaceae	Vishnukrantham	Herb	Fever (L)	LC
68	Kalamba	Ipomoea aquatica Forssk.	Convolvulaceae	Thuti kada	Climber	Vegetable (L)	LC
69	Komalaala	<i>Merremia hederacea</i> (Burm.f.) Hallier f.	Convolvulaceae	Talantu teega	Climber	Powder as shampoo (F)	LC
70	Trivrt	<i>Operculina turpethum</i> (L.) Silva Manso	Convolvulaceae	Tagada	Climber	Purgative (Wh)	LC
71	Phanji	Rivea hypocrateriformis Choisy	Convolvulaceae	Boddi kura	Climber	Snake bite (R), vegetable (L)	LC
72	Ankola	Alangium salviifolium (L.f.) Wangerin	Cornaceae	Uduga	Tree	Purgative (Sb)	LC
73	Pushkaramula/ Kemuka	Cheilocostus speciosus (J.Koenig) C.D.Specht	Costaceae	Chengalva gadda	Herb	Cure chicken- pox, asthma (Rh)	LC
74	Bimbika	Coccinia grandis (L.) Voigt	Cucurbitaceae	Kakidonda	Climber	Jaundice (L)	LC
75	Karavellaka	Momordica charantia L.	Cucurbitaceae	Kakara	Climber	Edible (F)	LC
76	Vandhya kakotaki	Momordica dioica Roxb. ex Willd.	Cucurbitaceae	Boda kakara	Climber	Edible (F)	LC
77	Paripushkara	Mukia maderaspatana (L.) M.Roem.	Cucurbitaceae	Noogu dosa	Climber	Tooth-ache (R)	LC
78	-	Solena amplexicaulis (Lam.) Gandhi	Cucurbitaceae	Adavi donda	Climber	Spermatorrhoea (R)	LC
79	Musta	Cyperus rotundus L.	Cyperaceae	Thunga	Herb	Scorpion bite (T)	LC
80	Akshiphala / Punnaga	Dillenia pentagyna Roxb.	Dilleniaceae	Chinna kalinga	Tree	Fever (Sb)	LC
81	Varahikanda	Dioscorea bulbifera L.	Dioscoreaceae	Nalla/Chenna gadda	Climber	Edible (T); aerial bulbs edible	LC
82	Sarpakshya	Dioscorea oppositifolia L.	Dioscoreaceae	Yella gadda	Climber	Edible (T)	LC
83	Kantakaluka	Dioscorea pentaphylla L.	Dioscoreaceae	Govinda gadda	Climber	Edible (T)	LC
84	Kakatinduka	Diospyros chloroxylon Roxb.	Ebenaceae	Illinda	Tree	Edible (F), Fuel (W)	LC
85	Tinduka	Diospyros malabarica (Desr.) Kostel.	Ebenaceae	Konda tuniki	Tree	Fuel (W)	LC
86	Dirgapatraka	Diospyros melanoxylon Roxb.	Ebenaceae	Tuniki	Tree	Beedi making (L), edible (F)	LC
87	Tinduka	Diospyros montana	Ebenaceae	Muchi tuniki	Tree	Inorexia (Sb)	LC

		1	i narma nesearch	, , , , ,	I		
		Roxb.					
88	Katuchandana	Erythroxylum monogynum Roxb.	Erythroxylaceae	Deva daru	Tree	Diaphoretic (L)	LC
89	Haritamanjari	Acalypha indica L.	Euphorbiaceae	Muripinda	Herb	Skin disease (Wh)	LC
90	Dugdhika	Chamaesyce hirta (L.) Millsp.	Euphorbiaceae	Reddivaari nanubalu	Herb	Bone fracture (La)	LC
91	Ushira	Chrysopogon zizanoides (L.) Roberty	Euphorbiaceae	Vattiveru	Herb	Fodder (S), cooling agent (R)	LC
92	Vandalai	Givotia moluccana (L.) Sreem.	Euphorbiaceae	Tella poliki	Tree	Making toys (W), edible (F)	LC
93	Kampillaka	Mallotus philippinensis (Lam.) MüllArg.	Euphorbiaceae	Kunkuma	Tree	Fodder, dye (Fr)	LC
94	Duhsparsha	Tragia involucrata L.	Euphorbiaceae	Dula gondi	Climber	Scorpion bite (R)	LC
95	Gunja	Abrus precatorius L.	Fabaceae/Legu minosae	Gurivinda, Gurija	Climber	Ornamental, abortificent (S)	LC
96	Khadira	Acacia chundra (Rottler) Willd.	Fabaceae/Legu minosae	Sandra	Tree	Agricultural implements (W)	LC
97	Baboola	Acacia nilotica (L.) Delile	Fabaceae/Legu minosae	Nalla tumma	Tree	Gum, agricultural implements (W)	LC
98	Yugmapatra	Bauhinia racemosa Lam.	Fabaceae/Legu minosae	Are, Adavi k <mark>an</mark> chanam	Tree	Fibre (Sb)	LC
99	Asmantaka	Bauhinia vahlii Wight & Arn.	F <mark>ab</mark> aceae/Legu minosae	Addaku	Climber	Meal plates (L), edible (F)	LC
100	Palasha	Butea monosperma Roxb.	Fab <mark>aceae/Legu</mark> minosae	Moduga	Tree	Meal plates (L)	LC
101	Lata palasha	Butea superba Roxb.	Fabaceae/Legu minosae	Teega moduga	Climber	Meal plates (L)	LC
102	Aragvadha	Cassia fistula L.	Fabaceae/Legu minosae	Rela	Tree	Timber (W)	LC
103	Goraksha	Dalbergia lanceolaria subsp. paniculata (Roxb.) Thoth.	Fabaceae/Legu minosae	Patchari	Tree	Baldness (Sb)	LC
104	Shimshapa	Dalbergia latifolia Roxb.	Fabaceae/Legu minosae	Jitregi	Tree	Valuable, furniture (W)	LC
105	Kalanjani	Derris scandens (Roxb.) Benth.	Fabaceae/Legu minosae	Chakali teega	Climber	Veterinary (Sb)	LC
106	Shalaparni	Desmodium gangeticum (L.) DC.	Fabaceae/Legu minosae	Konda saru	Herb	Scorpion bite (R)	LC
107	Virataru	Dichrostachys cinerea (L.) Wight & Arn.	Fabaceae/Legu minosae	Veluturu chettu	Tree	Fuel (W)	LC
108	Mudgaparni	Dysolobium pilosum (Willd.) Marechal	Fabaceae/Legu minosae	Noogu adavi chikkudu	Climber	Fodder (Wh)	LC
109	Anjana	Hardwickia binata Roxb.	Fabaceae/Legu minosae	Narepa	Tree	Construction, flag pole in temples (W),	LC

				0			
						veterinary (Sb)	
110	Kapikachu	Mucuna pruriens (L.) DC.	Fabaceae/Legu minosae	Dula gondi	Climber	Vermifuse to cattle (Wh)	LC
111	Karanja	Pongamia pinnata (L.) Pierre	Fabaceae/Legu minosae	Kanuga	Tree	Oil (S)	LC
112	Vidari	Pueraria tuberosa (Willd.) DC.	Fabaceae/Legu minosae	Nela gummadi	Climber	Digestion (T)	LC
113	-	Rhynchosia suaveolens (L.f.) DC.	Fabaceae/Legu minosae	Adavi kandi	Climber	Dysentery (S)	LC
114	Edagaja	Senna alata (L.) Roxb.	Fabaceae/Legu minosae	Thamara chettu	Shrub	Skin disease (L)	LC
115	_	Senna absus (L.) Roxb.	Fabaceae/Legu minosae	Chanupala vittulu	Herb	Skin disease (S)	LC
116	Kasamarda	Senna occidentalis (L.) Link	Fabaceae/Legu minosae	Penta chennangi	Herb	Appetite stimulant (F), purgative (R)	LC
117	Chakramarda	Senna tora (L.) Roxb.	Fabaceae/Legu minosae	Thagarisa	Herb	Insect bite (L)	LC
118	Chincha	Tamarindus indica L.	Fabaceae/Legu minosae	Chinta	Tree	Edible (L, F)	LC
119	Mashaparni	Teramnus labialis (L.f.) Spreng.	Fabaceae/Legu minosae	Adavi minumulu	Climber	Sexual debility (Wh)	LC
120	Salparni	Flemingia macrophylla (Willd.) Merr.	F <mark>ab</mark> aceae/Legu minosae	Er <mark>ri</mark> puvvu	Shrub	Skin disease (R)	LC
121	Kanakakuli	<i>Xylia xylocarpa</i> (Roxb.) Taub.	F <mark>abaceae/Leg</mark> u minosae	Bojja	Tree	House construction (W)	LC
122	Dronapuspi	Leucas aspera (Willd.) Link	Lamiaceae APR	Thummi	Herb	Wounds (L)	LC
123	Ksudraparni / Gambhira	Ocimum americanum L.	Lamiaceae	Kukka tulasi	Herb	Anti-septic (L)	LC
124	Tulasi	Ocimum tenuiflorum L.	Lamiaceae	Tulasi	Herb	Fever (L), worship (Wh)	LC
125	Medasaka	Litsea glutinosa (Lour.) C.B.Rob.	Lauraceae	Narra mamidi	Tree	Bone fracture (Sb)	LC
126	Nichula	Barringtonia acutangula (L.) Gaertn.	Lecythidaceae	Neeroddi	Tree	Furniture (W), stupefying fish (Sb)	LC
127	Kumbhi	Careya arborea Roxb.	Lecythidaceae	Buda dhermi, dudippa	Tree	Agricultural implements (W)	LC
128	Kupilu	Strychnos nux-vomica L.	Loganiaceae	Visha mushti	Tree	Agricultural implements (W), stupefying fish (Sb, F)	LC
129	Kathaka	Strychnos potatorum L.f.	Loganiaceae	Chilla	Tree	Water purification (S), Agricultural implements (W)	LC

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130	Siddeshwara	Lagerstroemia parviflora Roxb.	Lythraceae	Chennangi	Tree	Timber, agricultural implements (W)	LC
131	Dhataki	<i>Woodfordia floribunda</i> Salisb.	Lythraceae	Jaaji	Shrub	Anti-diarrhoeal (Fl)	LC
132	Shalmali	Bombax ceiba L.	Malvaceae	Booruga	Tree	Soft, making plywood (W)	LC
133	Kaalasaka	Corchorus capsularis L.	Malvaceae	Janapa nara	Herb	Fibre (Sb)	LC
134	Gudasarkara / Nagabala	Grewia hirsuta Vahl	Malvaceae	Jibilika	Shrub	Laxative (F)	LC
135	Dhanuvriksa	Grewia multiflora Juss.	Malvaceae	Potirika	Shrub	Fodder (L)	LC
136	_	Grewia rothii DC.	Malvaceae	Channa jana	Shrub	Laxative (F)	LC
137	Dhanvangah	<i>Grewia tiliifolia</i> Vahl	Malvaceae	Tada	Tree	Fibre (Sb)	LC
138	Banta	Grewia villosa Willd.	Malvaceae	Banta, chenulu	Shrub	Edible (F)	LC
139	Murva	Helicteres isora L.	Malvaceae	Nulthada	Shrub	Fibre (Sb)	LC
140	-	Pterospermum xylocarpum (Gaertn.) Oken	Malvaceae	Lolugu	Tree	Meal plate (L), furniture (W)	LC
141	Bala	Sida acuta Burm.f.	Malvaceae Ayurved	Chiluka parre	Herb	Broom, mental disorders (R)	LC
142	Bala	Sida cordifolia L.	Malvaceae	Chiru benda	Herb	Appetite stimulant (R)	LC
143	Nagabala	Urena lobata L.	M <mark>a</mark> lvaceae 💮	P <mark>ed</mark> da benda	Herb	Skin disease (R)	LC
144	-	<i>Osbeckia stellata</i> Buch. -Ham. ex Ker Gawl.	Melastomatacea e	Adavi gulabi	Herb	Abortifacient (R)	I
145	Nimba	Azadirachta indica A.Juss.	Meliaceae, APR	Vepa	Tree	Timber, agricultural implements (W)	LC
146	Mamsarohini	Soymida febrifuga (Roxb.) A.Juss.	Meliaceae	Somi	Tree	Timber, agricultural implements (W)	LC
147	Patalagarudi	Cocculus hirsutus (L.) W.Theob.	Menispermacea e	Shibbi teega	Climber	Baskets (Wh)	LC
148	Guduchi	Tinospora cordifolia (Willd.) Miers	Menispermacea e	Tippa teega	Climber	Strength (St)	LC
149	Nyagrodha	Ficus benghalensis L.	Moraceae	Marri	Tree	Edible (F), wounds healing (La)	LC
150	Kakodumbarika	Ficus hispida L.f.	Moraceae	Bomma medi	Tree	Fibre (Sb), meal plates (L)	LC
151	Plaksha	Ficus virens Aiton	Moraceae	Banda juvvi	Tree	Rheumatism (Sb)	LC
152	Ashwatha	Ficus religiosa L.	Moraceae	Raavi	Tree	Worship, source of bird-lime (Wh)	LC
153	Saakhotaka	Streblus asper Lour.	Moraceae	Barrenka	Tree	Agricultural implements (W),	LC

			Manuru Forest, Te	0		tooth brush (Sh), sand paper (L)	
154	Madhushigru	Moringa concanensis Nimmo	Moringaceae	Adavi munaga	Tree	Abortifacient (Sb)	LC
155	Shigru	Moringa pterygosperma Gaertn.	Moringaceae	Munaga	Tree	Aphrodisiac (Sb), Edible (L, F)	LC
156	Jambu	Syzygium cumini (L.) Skeels	Myrtaceae	Jinna	Tree	Edible (F)	LC
157	Punarnava	Boerhavia diffusa L.	Nyctaginaceae	Atika mamidi	Herb	Fever (Wh)	LC
158	Utpala	<i>Nymphaea nouchali</i> Burm.f.	Nymphaeaceae	Kaluva	Herb	Edible (T), forage (Wh)	LC
159	Dheniaani	Olax scandens Roxb.	Olacaceae	Muriki malle, turka thoppe	Tree	Edible (F)	LC
160	Sephalika / Parijata	Nyctanthes arbortristis L.	Oleaceae	Karise, parijatha	Tree	Bone fracture (Sb), arthritis (L)	LC
161	Viparita Lajjalu	Biophytum sensitivum (L.) DC.	Oxalidaceae	Atti patti	Herb	Boils, blisters (L)	LC
162	Kshirini	Argemone mexicana L.	Papaveraceae	Mulu paccha	Herb	Skin disease (Wh)	LC
163	Asan	<i>Bridelia retusa</i> (L.) A.Juss.	Phyllanthaceae	Korra maddi	Tree	Edible (F), veterinary (Sb)	LC
164	Bhumyamalaki	Phyllanthus amarus Schumach. & Thonn.	Phyllanthaceae	Nela usiri	Herb	Jaundice (Wh)	LC
165	Amalaki	Phyllanthus emblica L.	Phyllanthaceae	Usiri	Tree	Edible, pickled (F)	LC
166	Krishna kamboji	Phyllanthus reticulatus Poir.	Phyllanthaceae	Pulicheru	Climber	Piles, fodder (L)	LC
167	Asthi samharaka	Sauropus quadrangularis (Willd.) MüllArg.	Phyllanthaceae		Herb	Tonsillitis (L)	LC
168	Brahmi	Bacopa monnieri (L.) Wettst.	Plantaginaceae	Brahmi	Herb	Brain tonic (Wh)	LC
169	Chitraka	Plumbago zeylanica L.	Plumbaginaceae	Chitramulam	Herb	Boils, blisters, abortion (R)	LC
170	Vamsha	Bambusa bambos (L.) Voss	Poaceae	Bongu, Veduru	Tree	Making baskets, household articles (Culm)	LC
171	Bhustruna	Cymbopogon citratus (DC.) Stapf	Poaceae	Nimma gaddi	Shrub	Oil medicinal (L)	LC
172	Durva	Cynodon dactylon (L.) Pers.	Poaceae	Garika	Herb	Diuretic, fodder (L)	LC
173	Vansha	Dendrocalamus strictus (Roxb.) Nees	Poaceae	Bongu, Veduru	Tree	Making baskets, household articles (Culm)	LC
174	-	<i>Thysanolaena latifolia</i> (Roxb. ex Hornem.) Honda	Poaceae	Cheepuru gaddi	Herb	Brooms (Wh)	LC

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175	Milakunankai	Polygala arvensis Willd.	Polygalaceae	Chitti janumu	Herb	Antibacterial (L)	LC
176	Lonika	Portulaca oleracea L.	Portulacaceae	Gangavailaku	Herb	Cultivar, vegetable (L)	LC
177	=	Portulaca pilosa L.	Portulacaceae	Chinna gaddi gulabi	Herb	Ornamental (Wh)	LC
178	Kola	Ziziphus mauritiana Mill.	Rhamnaceae	Regu	Tree	Edible (F)	LC
179	Karakandhauh	Ziziphus oenopolia (L.) Mill.	Rhamnaceae	Pariki	Climber	Edible (F), dysentery (Sb)	LC
180	Ghontaa	Ziziphus rugosa Lam.	Rhamnaceae	Enugu pariki	Climber	Bone fracture (L)	LC
181	Ghoti	Ziziphus xylopyrus (Retz.) Willd.	Rhamnaceae	Gotte	Tree	Fodder (Wh)	LC
182	Nadihingu	Gardenia gummifera L.f.	Rubiaceae	Bikki	Tree	Edible (F)	LC
183	Parpataki	Gardenia latifolia Aiton	Rubiaceae	Pedda bikki	Tree	Edible (F)	LC
184	Nadihingu	Gardenia resinifera Roth	Rubiaceae	Chinna bikki, karinga	Tree	Gum-resin (Lb)	LC
185	Nevali	Ixora pavetta Andr.	Rubiaceae	Korivi	Shrub	Fodder, fencing (Wh)	LC
186	Akshikiphala	Morinda pubescens Sm.	Rubiaceae Maprin	Togara	Tree	Yellow dye (R)	LC
187	Gandha prasarini	Paederia foetida L.	Rubiaceae	Savirela, Surya bhakta	Climber	Antidiarrhoeal (L)	LC
188	Bilva	Aegle marmelos (L.) Correa	Rutaceae	Maredu	Tree	Edible (F), worship (L)	LC
189	Atavi jambira	Atalantia monophylla DC.	Rutaceae	Adavi nimma	Tree	Pickle (F)	LC
190	Bhilotaka	Chloroxylon swietenia DC.	Rutaceae	Billudu	Tree	Agricultural implements (W)	LC
191	Kapitha	Limonia acidissima Groff	Rutaceae	Velaga	Tree	Edible (Fp), medicinal (L)	LC
192	Kalashaka/ Surabinimba	Murraya koenigii (L.) Spreng.	Rutaceae	Karivepa	Tree	Flavouring agent (L)	LC
193	Bilvaparni/ Surasi	Naringi crenulata (Roxb.) Nicolson	Rutaceae	Thorri velaga	Shrub	Fodder (Wh)	LC
194	Karnasphota	Cardiospermum halicacabum L. var. microcarpum	Sapindaceae	Chinna budda kashe	Climber	Piles (L)	LC
195	Arishta	Sapindus emarginatus Vahl	Sapindaceae	Kunkudu	Tree	Natural shampoo (F)	LC
196	Madhuka	Madhuca longifolia var. latifolia (Roxb.)A.Chev.	Sapotaceae	Ippa	Tree	Edible (C), distillation spirit (Fl), oil (S)	LC
197	Rajadana	Manilkara hexandra (Roxb.) Dubard	Sapotaceae	Pala	Tree	Edible (F), religious functions (Sh)	LC
	Sanjivani	Selaginella bryopteris	Selaginellaceae	Pitta kalu chettu	Herb	Memory (Wh)	LC

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1		1	Manuru Porest, Te	I		I	
		(L.) Baker					
199	Aralu / Mahanimba	Ailanthus excelsa Roxb.	Simaroubaceae	Pedda manu	Tree	Astringent (Sb)	LC
200	Vana madhusnuhi	Smilax perfoliata Lour.	Smilacaceae	Konda guruva teega	Climber	Aphrodisiac, cooked (Rh)	LC
201	Ushava	Smilax zeylanica L.	Smilacaceae	Kantasara theega	Climber	Aphrodisiac, cooked (Rh)	LC
202	Avagutha	Physalis angulata L.	Solanaceae	Budda kashi	Herb	Antipyretic (Wh)	LC
203	Chirabilva	Holoptelea integrifolia Planch.	Ulmaceae	Nemali nara	Tree	Fire wood (Wh)	LC
204	Gambhari	Gmelina arborea Roxb.	Verbenaceae	Gummedi teku	Tree	Agricultural implements (W)	LC
205	Shaka	Tectona grandis L.f.	Verbenaceae	Teku	Tree	Furniture, construction (W), worship (I)	LC
206	Ratnapurusha	Hybanthus enneaspermis (L.) F.Muell.	Violaceae	Nela kobbari	Herb	Aphrodisiac (Wh)	LC
207	Amlavetasa / Vanadraksha	Ampelocissus latifolia (Roxb.) Planch.	Vitaceae	Dobba teega	Climber	Anorexia (St)	LC
208	-	Cissus adnata Roxb.	Vitaceae	Kokkitayaralu	Climber	Diuretic (T)	LC
209	Amlavetasa	Cissus vitiginea L.	Vitaceae	Adavi draksha	Climber	Edible for stomach-ache (F)	LC
210	Gajakarna	Leea indica (Burm.f.) Merr.	Vitaceae	Velama sandi, amkador	Shrub	Skin disease (R)	LC
211	Aranyaharidra	Curcuma inodora Blatt.	Zingiberaceae	Adavi pasupu	Herb	Antiseptic (Rh)	LC
212	Gokshura	Tribulus lanuginosus L.	Zygophyllaceae	Palleru	Herb	Venereal (L), urinary diseases (F)	LC

T-Tuber, Sh-Shoot, Wh-Whole plant, W-Wood, F-Fruit, S-Seed, Sb-Stem bark, B-Bulb, R-Root, Rh-Rhizome, Fl-Flower, L-Leaf

St-Stem, La-Latex, K-Kernel, Ps-Pseudocarp, Fp-Fruit pulp, Br-Branch, C-Corolla, Lb-Leaf bud, Pb-Pseudo bulb, I-Inflorescence

¶ = Cultivated; * = Exotic, Naturalized; # = Planted; ¥ = R_wild;

LC- Least concern; I- Invasive, NT-Near Threatened, VU-Vulnerable, EN-Endangered, CR-Critically endangered, NE-Not evaluated; DD-data deficient.

Distribution by Plant Families

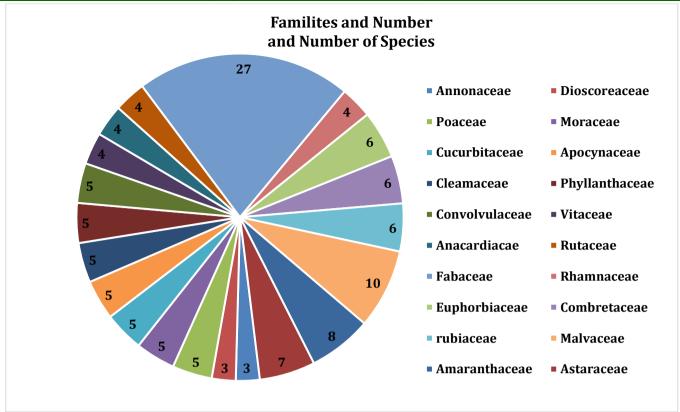


Figure 1: Most dominant plant families

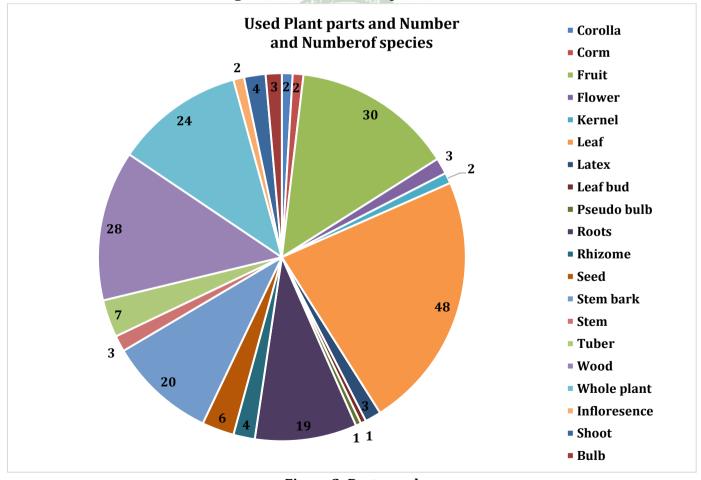


Figure 2: Parts used

Table 4: Categorized ailments and corresponding number of plant species

Use Category	Number	Use Category	Number
Abortifacient (R)	3	Gum (Sb)	4
Abortifacient (Sb)	2	Hair dye (L)	1
Agricultural implements (W)	7	Head-ache (L)	1
Anorexia (Sb)	1	Hemorrhage, cuts (L)	1
Anorexia (St)	1	House construction (W)	1
Antibacterial (L)	1	Insect bite (L)	2
Anti-diabetic (L)	1	Jaundice (L)	2
Anti-diarrhoeal (R)	3	Laxative (F)	3
Anti-lice in domestic fowl (Wh)	1	Leprosy (corm)	1
Antipyretic (Wh)	1	Making baskets, household articles (Culm)	3
Anti-septic (L)	2	Meal plate (L), furniture (W)	3
Aphrodisiac (R)	6	Memory (Wh)	1
Appetite stimulant (F), purgative (R)	3	Natural shampoo (F)	1
Asthma (L)	1	Oil (S)	2
Baldness (Sb)	1	Ornamental, abortificent (S)	1
Baskets (Sh)	2	Pickle (F)	2
Beedi making (L), edible (F)	1	Piles (L)	2
Boils, blisters (L)	2°f w	Powder as shampoo (F)	1
Bone fracture (L)	3 5	Purgative (S)	3
Brain tonic (Wh)	2 1	Respiratory disease (Wh)	1
Broom, mental disorders (R)	2	Rheumatism (La), snake bite (R)	2
Building huts (W)	og 1	Scorpion bite (R)	4
Carpentary (W)	2 2	Sexual debility (Wh)	1
Carving toys (W)	2	Skin disease (L)	7
Construction, flag pole in temples (W), veterinary (Sb)	1	Snake bite (R), vegetable (L)	2
Cough (F)	2	Soft, making plywood (W)	1
Cultivar, vegetable (L)	1	Spermatorrhoea (R)	1
Cure chicken-pox, asthma (Rh)	1	Strength (St)	1
Cuts (L)	2	Stupefying fish (Sb)	1
Diabetes (R)	2	Thatching (L), toddy tapping, edible (F)	2
Diaphoretic (L)	1	Timber (W)	7
Digestion (T)	1	Tonsillitis (L)	1
Diuretic (T)	2	Tooth brush (R)	3
Dog bite (L)	1	Valuable, furniture (W)	1
Dysentery (S)	1	Vegetable (L)	8
Dyspepsia, fever (Wh)	1	Vermifuge (L)	2
Edible, pickled (F)	31	Veterinary (Sb)	1
Fever (L)	5	Water purification (S), Agricultural implements (W)	1
Fibre (Sb)	5	Worship, source of bird-lime (Wh)	1

Fire wood (Wh)	1	1 Wound healing (Wh)	
Flavouring agent (L)	1 Yellow die (R)		1
Fodder	8 Furniture (W), stupifying fish (Sb)		2
Fuel (W)	2	Galactogogue (L)	3

Table 5: Folklore uses of different medicinal plants obtained from the questionnaire

S.No.	Plant Name & Family	Local Name (Telugu)	Traditional Uses
1	Blumea axillaris (Asteraceae)	Kukka pogaku	Decoction of whole plant used in renal calculi; paste of leaves used in wounds
2	Adenostemma lavenia (Asteraceae)	Adavi jilakara	Paste of leaves or seeds used in wounds
3	Barleria prionitis (Acanthaceae)	Mulla gorinta	Paste of different parts used in scorpion bite
4	Andrographis paniculata (Acanthaceae)	Nela vemu	Decoction of whole plant used in all types of fever
5	Ocimum tenuiflorum (Lamiaceae)	Tulasi	Decoction of leaves used in fever
6	Nyctanthes arbortristis (Oleaceae)	Parijata	Decoction of different parts used in bone fractures and arthritis
7	Rivea hypocrateriformis (Convolvulaceae)	Boddi kura	Paste of leaves and juice used in snake bite
8	<i>Gymnema sylvestre</i> (Apocynaceae)	Poda patri / M <mark>eka</mark> meyani <mark>a</mark> ku	Juice of leaves used in asthma
9	Holarrhena pubescens (Apocynaceae)	Pala ko <mark>di</mark> sha	Powder or juice of fruit seeds used in diarrhea
10	Hemidesmus indicus (Apocynaceae)	Sugandhi pala	Juice or decoction of roots used in diarrhea and burning sensation
11	Calotropis gigantea (Apocynaceae)	Jilledu	Juice of leaves or latex used in snake bite
12	Anodendron paniculatum (Apocynaceae)	Athukudu teega	Exudate of the plant used in bone fractures
13	Aerva lanata (Amaranthaceae)	Pindi kura	Paste or curry of whole plant used to treat renal calculi
14	Moringa concanensis (Moringaceae)	Munaga	Fruits used for strengthening; aphrodisiac in nature
15	Azadirachta indica (Meliaceae)	Vepa	Paste of leaves used in skin diseases
16	Woodfordia floribunda (Lythraceae)	Jaaji	Paste made by rubbing seeds with water used to treat diarrhea
17	Terminalia chebula (Combretaceae)	Karakkaya	Powder of dried fruits used in cough
18	Terminalia bellirica (Combretaceae)	Taniikaya	Powder of fruits used in cough
19	Phyllanthus reticulatus (Phyllanthaceae)	Pulicheru	Decoction of fruits used in hemorrhoids
20	Phyllanthus amarus (Phyllanthaceae)	Nela usiri	Decoction of fruits used in jaundice

21	Mucuna pruriens (Fabaceae)	Dula gondi	Paste of seeds used in scorpion bite
22	Coccinia grandis (Cucurbitaceae)	Kaki donda	Different parts used in jaundice
23	Ziziphus rugosa (Rhamnaceae)	Enugu pariki	Paste of leaves tied as bandage on fractures
24	Desmodium gangeticum (Fabaceae)	Konda saru	Juice of leaves used in scorpion bite
25	Tribulus lanuginosus (Zygophyllaceae)	Palleru	Decoction of whole plant used in urinary tract disorders
26	Cissus vitiginea (Vitaceae)	Adavi draksha	Decoction of fruits used in stomach ache
27	Dillenia pentagyna (Dilleniaceae)	Chinna kalinga	Juice of leaves and decoction of roots used in fever
28	Tinospora cordifolia (Menispermaceae)	Tippa teega	Stem decoction powder extract used in jaundice and for strength
29	Cyperus rotundus (Cyperaceae)	Tunga	Paste of leaves used in scorpion bite
30	Cheilocostus speciosus (Costaceae)	Chengalva gadda	Paste of leaves used in herpes or chicken pox
31	Gloriosa superba (Colchicaceae)	Nabhi Ayurve	Paste of leaves used in leprosy or skin diseases
32	Litsea glutinosa (Lauraceae)	Narra mamidi	Decoction of stem used in bone fractures
33	Aristolochia indica (Aristolochiaceae)	Gadida <mark>g</mark> adapa	Paste of leaves used in snake bite

Outcomes of Study

- 1. A total of 212 medicinal plant species were documented, mostly angiosperms, with only 3 under invasive concern and the rest under least concern.
- 2. Dominant families recorded were Fabaceae (27), Malvaceae (10), Amaranthaceae (8), Asteraceae (7), and several with 6 species each.
- 3. Thirty-three species were commonly used, of which 15 were most frequent; 90% for human use, 8% veterinary, and 2% for both.
- 4. Knowledge was held by traditional healers (aged 40–75 years), passed orally as cultural heritage.
- 5. Major threats identified were deforestation, water scarcity, modernization, and growing preference for allopathy.
- 6. Most species (94%) were indigenous, though some exotics were naturalized; several plants considered weeds by farmers had ethnomedicinal value.
- 7. Sacred groves and biodiversity hotspots still support conservation, but remain under increasing threat.

The present study highlights the importance of ethnobotanical knowledge documentation, which continues to serve as a cultural heritage among tribal communities. Knowledge was largely preserved through oral transmission, particularly among elderly healers, but its distribution was uneven across villages due to the local availability of specific plant species. Although many species were recognized by villagers, not all were actively used, reflecting a gradual decline in traditional practices. Deforestation, large-scale timber extraction, and water scarcity have further contributed to the disappearance of certain medicinal plants. This ecological decline has directly impacted the continuity of folklore medicine, with modern allopathic health programs penetrating remote areas and leading to reduced reliance on locally available remedies.[23]

The study also revealed that while traditional plant conservation was once integral to tribal culture, processes of globalization and industrialization have altered local priorities. Younger generations show little interest in learning or preserving ethnobotanical traditions, leading to a widening gap in knowledge transmission. The dominance of dicot families such as Fabaceae and Malvaceae in ethnomedicinal use was

DISCUSSION

consistent with earlier research, but their role is under threat as communities increasingly adopt allopathic treatments for even minor ailments. In this context, community-led conservation initiatives, along with protection of sacred groves, biodiversity hotspots, and culturally significant forest patches, become essential. A participatory approach involving both government and local communities offers a sustainable model for conserving these medicinal species for future generations.^[24]

From the perspective of Ayurveda, ethnobotanical surveys bridge the gap between classical textual knowledge and living traditions. Acharva Charaka and Acharva Sushruta emphasized the use of regionally available plants, which resonates with the study's findings of locally adapted remedies for ailments like scorpion bites, fractures, and fevers. Such documentation not only safeguards indigenous wisdom but also provides valuable inputs for pharmacognosy and clinical practice. Field exposure to plant identification helps prevent adulteration in the raw drug market and strengthens applied *Dravyaguna* Vigyana. Moreover, incorporating folklore remedies into future pharmacological validation and formulation development could enhance Ayurveda pharmacology while simultaneously conserving biodiversity and cultural heritage.^[25]

CONCLUSION

This study documented 212 medicinal plant species from eight tribal villages of Eturnagaram Wildlife Sanctuary and Malluru Forest, highlighting their use in treating common ailments like scorpion bites, wounds, and fractures. Dominant families such as Fabaceae. Malvaceae. and Amaranthaceae reflect the rich ethnomedicinal diversity of the region. However, traditional knowledge, largely preserved by elderly healers, is under threat due to deforestation, modernization, and declining interest among youth. The findings stress the need for community-led conservation, integration of tribal wisdom with government policies, and scientific validation of frequently used species, offering scope for future research. drug development, and sustainable healthcare.

Scope for Future Work

- 1. Scientific studies on frequently used plants to develop safe and effective herbal formulations.
- 2. Exploration of plant uses in animal healthcare to strengthen veterinary support in remote areas.
- 3. Creation of multilingual databases for systematic recording of species, uses, and folklore traditions.
- 4. Involving tribal youth in ethnobotanical research and conservation to ensure continuity of knowledge.

- 5. Linking traditional wisdom with government policies and promoting eco-friendly income opportunities.
- 6. Reintroducing threatened species through nursery development and forest restoration in collaboration with local communities.

Significance of the Study (in short)

- 1. Preserves traditional ethnobotanical knowledge at risk of being lost.
- 2. Provides a baseline for future phytochemical and pharmacological research.
- 3. Offers insights into indigenous, self-reliant healthcare systems.
- 4. Guides conservation planning and sustainable resource management.
- 5. Promotes cultural heritage alongside biodiversity preservation.
- 6. Supports policy and development by integrating traditional medicine with healthcare.
- 7. Empowers communities and educates youth on conservation.
- 8. Creates scope for sustainable livelihoods through herbal products, nurseries, and eco-tourism.

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