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# Identification and Documentation of Ethnomedicinal Plants Used by Tribal People of Ranchi District, Jharkhand

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# ABSTRACT

This survey was conducted in Ranchi district and its surrounding villages in order to determine the useful plants consumed for different ethnobotanical purposes such as animal fodder, ornamental plants, good, fuel and dye by the local people living in the area. The survey was conducted in the year 2015-16. The present study exposed that total 63 medicinal plants species belonging to 37 families in this area. In between 63 medicinal plants reported in area maximum 9 plants from Fabaceae family followed by 7 from Malvaceae and minimum 1 plants found from each of the families such as Acanthaceae, Mimosoideae, Uglyhuridthis and Nyctaginaceae. The remaining each of the 24 family's single plant was found. Out of reported 63 medicinal plants, 29 species were plants followed by 24 trees and minimum shrub 01. Hence, the plants in terms of number of species 46.03 % as these are abundant and frequently found in their surroundings. **Key words:** Ethnobotanical, Documentation, Ranchi, Medicinal plants, Trees

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# INTRODUCTION

Medicinal plants are presently in demand and their acceptance is increasing progressively. Undoubtedly, plants play an important role by providing essential services in ecosystems. Without plants, humans and other living organisms cannot live in a way living should be. Anyway, herbals especially medicinal herbs have constantly acted as an overall indicator of ecosystem health [9]. India has one of the richest plant medical traditions in the world. It is the tradition that is of remarkable contemporary relevance for ensuring health security to the teeming millions. There are estimated to be around 25,000 effective plants based formulations are used in flock medicine and are known to rural communities in India. There are over 1.5 million practitioners of traditional medicinal system using medicinal system using medicinal plants in preventive, promotional and curative application. It is estimated that there are over 7800 medicinal drug manufacturing units in India, which consume about 2000 tonnes of herbs annually Ramakrishnappa [10]. Medicinal plants are used for treatment because they have certain properties, including synergistic actions. The constituents of the plant may interact with each other, and this interaction can be beneficial for both or adverse to either of them or eliminate the harmful effects of both. Plant-derived compounds can dramatically improve hard-to-treat illnesses, such as cancer. Plant components are also characterized by their ability to prevent the development of certain diseases. The toxicity and adverse effects of conventional and allopathic medicines have also been important factors in the sudden increase in population demands and increase in the number of herbal drug manufactures as well as a reduction in the use of chemical drugs Rasool [7]. The use of plants and plant products as medicines could be traced as far back as the beginning of human civilization [7]. They are considered as the backbone of traditional medicine and are widely used to treat a plethora of acute and chronic diseases ranging from the common cold to complex human diseases all over the world [4]. Many higher plants are sources of natural products used as pharmaceuticals, agrochemicals, flavour and fragrance ingredients, food additives, and pesticides [1]. In the Mediterranean region local, orally transmitted knowledge about the uses of plants as medicine and food appears to be declining, mainly as a result of the ongoing socio-

structural changes in Ranchi district of Jharkhand. Several workers in India have also explored various areas and studied different tribes by documenting the indigenous knowledge of ethnobotaney uses of plants [2, 3, 5, 11, 12].

# MATERIAL AND METHODS

The Jharkhand state being the land of Lord Baidyanath; known as natural sanctuary of spiritual, cultural and herbal heritage in India. The state of Iharkhand lies between latitude 22°00 to 24° 37 N and longitude 83<sup>°</sup> 15 to 87<sup>°</sup> 01 E, and well known due to tribal populations, mineral rich region, tropical dry deciduous forests etc. The total population of the state is 26.91 million of which the rural population constituted 77.80% while the schedule tribe constituting 22.50 %. The tribals, forest dwellers and rural people have a rich oral tradition of native and ethnic knowledge about ambient vegetation and forests. A large number of tribal communities like Santhal, Paharia (Sauria Paharia, Mal Paharia etc), Oraon, Munda, Kol, Kharwar, Ho, Asur, Baiga etc. The tribes collect and utilized various herbs, roots, rhizomes, tubers, flowers, fruits, leaves and seeds of many useful plants for meeting their day to day needs and health care from the surrounding forest areas [10]. The data was collected from the predesigned questionnaire as designed by Tiwari [12] with create in modification by the village survey and filling the data by personal contact with villagers and local practitioners as well as visit of adjoin forest area to survey the medicinal plants and their status in two blocks namely Angara and Namkum located in Ranchi district. By using questionnaire survey format data will be all a sampling intensity of 10 or 20 % by selecting individual on random basis each village and information was recorded. The villagers are uses of medicinal plants are different disease cure to gadder the forest area and use of primary treatment use by the villagers.

# **RESULT AND DISCUSSION**

The herbal medicinal plant practiced in the study area presented in the table 1 which includes local name, botanical name, family, habits, plants parts used in diseases and method of herbal formulation & their use by traditional healers. The present study revealed that a total of 63 medicinal plants species belonging to 37 families.

S. No	Local Name	Botanical Name	Family	Habit	Plant parts used in Diseases	Method of herbal formulation & their use by traditional
						healers.
1	Adharakh	Zingiber officinale	Zingiberaceae	Plant	Modified root (cough, fiver khansi)	Patient daily take the 1 – 2 cup juice for 2 – 3 days.
2	Arhar	Cajanus cajan	Fabaceae	Plant	Leaf (mouth infection)	Leaves powdered is kept on the infected parts of mouth
3	Arjun tree	Terminalia arjuna	Combretaceae	Tree	Bark (Blood pressure and gathiya disease)	Arjun bark powdered form and taken daily 1 – 2 times with water for 4 – 5 days.
4	Bhirgi kusum	Schleichera oleosa	Sapindaceae	Plant	Root (pneumonia, cancer)	Root powdered and mixed with honey is given to patient for Pneumonia- 3-4 days Cancer-15 days as reported by villagers.
5	Dumbar plant	Liquidambar styraciflua	Altingiaceae	Plant	Latex (Madi babasir)	Dumber plant secretes milky latex, milk are like a gondh so daily 1 – 7 day lagne se thik ho jata hai.
6	Garlic (Lahsun)	Allium sativam	Amarykkidaceae	Plant	ganth	Garlic 3-4 ganth are boile and taken it daily 4-5 times for relief in caugh.
7	Jamun	Syzygium cumini	Myrtacea	Tree	Seed + badam + shoot Disease – Sugar	Jamun seed, badam and gurmar shoot are made in powdered and taken daily with

Table 1: List of Medicinal Plant found for treatment in tribal farmers

				-		
						milk/ water 2 -3
						times for 1 month.
8	Kalmegh	Andrograpis	Acanthaceae	Herb	Whole plant	Kalmegh are boiled
		paniculata			Disease – stone,	and taken daily at
					Blood purifier	morning for 15 days
						to cure the disease.
9	Karanj plant	Milletta pinnata	Fabaceae	Plantae	Branch (datwan)	Karanj datum used
						for bleeding gum and
10	I simonti alcat	Minana andian	Mimosoideae	Plant	Whole plant	bad odour of mouth.
10	Lajwanti plant	Mimosa pudica	Miniosofueae	Plant	(Khuni babasir)	Lajwanti plat crushed and take daily one
					(Kilulii babasii )	time 3 – 4 days.
11	Mahua	Madhuca indica	Sapotaceae	Plant	Bark (Stone	Mahua bark are
					disease)	boiled 3 – 4 lit. Water
						7 – 8 hr. one tea
						spoonful taken in
						empty stomach daily
10		A 10 1 A 10				for 15 - 18 days.
12	Neem	Azadirachta indica	Meliaceae	Tree	Leaf + narial oil	Neem leaf powdered and mixed with
					or Karanj oil Disease – Itches.	
					Disease – fiches.	coconut oil or karanj oil and use for 15
						days.
13	Patter chatta	Bryophyllum	Uglyhuridthis	Plant	Whole plant +	Patter chatta and
_		pinnatum			kurthi (pathri	kurthi dal are boiled
					disease)	and its water is taken
						daily to dissolve
						kidney stress.
14	Rangani plant	Mirabilis jalapa	Nyctaginaceae	Plant	Fruit + seed	Dried seed are
						crushed and mixed
						with mustard oil and taken like hukka and
						cigarette.
15	Satawar	Asparagus	Asparagaceae	Climbing	Root (sexual	Root powder + silajit
		racemosus		plant	disease)	+ mahasangam bhang
				r · ·	,	given to patient for 4-
						5 days
16	Shesham	Dalbergia sisoo	Fabaceae	Tree	Leaf + Aloe vera	Sheesam leaf
		Aloe vera			gel + misri	powdery form, Aloe
				Plant		vera gel, are mixed
						with little misri and
						taken daily for 1- 2 week, Reported to
						cure cancer.
17	Sundhari	Heritiera fomes	Malvaceae	Plant	Fruit	Sundari fruit
	plant	,			(sexual	powdered and mixed
	-				disorders)	with misri and taken
1					-	twice a day for 1 – 2
<u> </u>						months.
18.	Khajur	Phoenix	Arecaceae	Tree	Khajur – Gond.	Khajur gond taken
		dactylifera			Disease – Bone,	with milk for 1 week
1					Menstrual cycle.	can cure disease. Also called as chuhara
						gond.
19.	Babool	Acacia nilotica	Fabaceae	Tree	Babool – Pod.	Babool pod are dried
1.	200001		. abaceae		Disease –	& powdered given 1 –
					Gsatric.	2 spoonful daily for 5
						– 7 days.
20.	Aonla	Emblica officinalis	Euphorbiaceae	Tree	Aonla – Leaf,	Aonla leaf powder or
					Fruit.	fruit juice given 2 – 3
					Disease –	times daily for 1
					Digestion, sugar,	week.
21	Doll-	Dut	Faharra	Dl+	gastric problems.	Dlack drived and
21.	Palash	Butea monosperma	Fabaceae	Plant	Plash – Seed, Flower.	Plash dried seed powder taken daily
		топозренни			Disease –	morning for 1 week
L				I	Discuse	morning for 1 week

		1	1			
					Vomiting,	and flower are
					wound, effect of burning in body	crushed and paste in use on the body to
					due to sun	relive burning
					strock.	sensation.
22.	Tulsi	Ocimum sanctum	Lamiaceae	Plant	Tulsi – Leaf	Tulsi leaves boiled in
					Caugh, Fever &	water and 3-4 raw
					Potency.	leaves are given to
						chew five times a day.
						1g seeds 2-3 times chewing for 1months
						increase potency.
23.	Kali Musli	Cruculigo	Hypoxidaceae	Plant	Kali Musli – Root.	Kali musli root
		orchioides			Disease –	powdered are given
					Potency, night	with milk for 1 week.
					fall.	
24.	Bargad	Ficus benghalensis	Rutaceae	Tree	Bargad – Bark, Latex.	Bargad bark burnt
					Latex.	along with ghee & put on the wound taking
						milky latex with
						batasha or sugar
						increase potency.
25.	Aloe – Vera	Aloe - Vera	Liliaceae	Plant	Aloe – Vera –	Aloe – Vera gel nd
					Leaf (gel)	misri are mixed and taken for 5 – 6 day &
					Disease – cough, burning part of	gel are mixed with
					the body, liver,	haldi used in burned
					etc.	part of the body.
26.	Beng saag	Centella asiatica	Apiaceae	Plant	Bang saag – leaf	Beng saag powdered
					Disease – sun	mixed with misri and
					stroke, jaundice,	take daily morning
					appetizer.	for 1 week & past applied on the body.
27.	Harjora	Cissus	Malvaceae	Tree	Harjora – whole	Harjora, turmeric and
	,	quadrangularis			plant.	colocacia are mixed &
		1 0			Disease – joints	powdered and then
					of bone.	used on fractured
						portion of the bone
28.	Okara or Ban	Abelmoschus	Malvaceae	Plant	Okara – Root	for 15 – 20 days. Okara root are cut in
20.	Bhindi	esculentus	Maivaceae	Tiant	Disease –	small pieces and
					Jaundice.	soaked in water and
						taken daily morning
			_			for 5 -6 days.
29.	Sal	Shorea robusta	Dipterocarpaceae	Tree	Sal - Leaf	Sal, Guava, Jamun,
					Disease – Dysentery.	Mango, leaf are made in powder form and
					Dysentery.	taken with water 1-2
						times daily for 1
						week.
30.	Bhumi amla	Phyllanthus niruri	Phyllanthaceae	Plant	Bhumi amla –	Bhumi amla are
					Whole plant Disease –	crashed & mixed with
					Jaunice, itches,	sugar and milk and taken, root of Bhumi
					burning	amla with Arwa rice
					sensation in	are salt & used for 1 –
					urinary tract,	2 times for 15 days to
					apitizer &	cure the disease.
					healing of	
31.	Brahmi	Baccopa monniera	Plantaginaceae	Perennial	wound. Brahmi – Whole	Brahmi panchang
51.	Dramm	Buccopu monnieru	i minaginaceae	herb	plant	taken daily 1 -2 spoon
					Disease – Brain	with ½ spoon ghee
					tonic, Histeria,	taken after meal, and
					Insomia.	to store this product
						brahmi juice & milk
						are boil for ½ hr and mixed with ghee and
						mixed with gliee allu

						1
						taken daily 1 spoon
						after meal for 20
						days.
32.	Muchkund or	Pterospermum	Malvaceae	Tree	Muchkund –	Muchkund flower
	Kanak	acerifolum			Flower	soaked in water at
	champa				Disease -	night & in the
					Jaundice	morning put in nostril
						for 10 day to cure the
						disease.
33.	Pipli,	Piper longum	Piperaceae	Plant	Pipli – Fruit	Pipli + black piper+
					Disease – Cough,	soanth are powdered
					asthma, night	, taken 2 – 3 pinch
					fall, Fiver	with honey in the
					stomach pain.	morning for 5 – 6
						days for adult & taken
						2 – 3 spoon for child
		-			-	in milk/ water.
34.	Punarnava	Boerhavia diffusa	Nyctaginaceae	Prostrating	Punarnava –	Punarnava juice taken
				on the	Whole plant.	2 – 3 spoon daily &
				ground	Disease – Low	root powder mixed
				sometimes	B.P, Weakness,	with honey or milk
				erect	Menstrual cycle,	for 2 – 3 times for 15
					jaundice, kalazer,	days to cure the
					cough, stomach	disease.
25	Course i averti	Anderstein	Orchidaceae	I Il-	pain, rapid.	ومستعام المعالم
35.	Sanyai putti	Aplectrum hyemale	Orchidaceae	Herb	Sanyaiputti – Leaf	Sanyaiputti dried leaf powdered taken 2 – 3
		nyemule			Disease –	spoon with
					Stomach pain,	Milk/Water 1 – 2
					vomiting & lose	times daily for 1
					motion.	week.
36.	Anjan	Hardwickia binata	Fabaceae	Tree	Anjan – Seed.	Anjan seed powder
50.	mijan	narawiekia binata	Tubuccuc	iice	Disease – Night	given daily with
					fall, weakness,	milk/water up to 15
					burning	days to cure the
					sensation in	disease.
					urinary tract.	
37.	Ashwagandha	Withania	Solanaceae	Plant	Ashwagandha -	Ashwagandha
	-	somnifera			Whole plant.	panchang plant
		-			Disease –	powder given with
					Burning	milk daily 2 – 3 times
					sensation in	for 15 days.
					urinary tract,	
					night fall,	
					weakness.	
38.	Bel	Aegle marmelos	Rutaceae	Tree	Bel – Fruit,	Bel pulp given daily
					Leaves.	and 5 – 6 leaves taken
					Disease –	daily for 1 week to
					Vomiting,	cure the disease.
					Burning	
					sensation in	
					urinal tract,	
					stomach pain,	
					piles, jaundice & ulcer.	
39.	Safed Musli	Chlorophytum	Liliaceae	Herb	Safed Musli –	Safed musli peeled off
57.	Saleu Musii	borivillianum	Lillacede	11CLD	Root.	root powder is mixed
		Dorivillullullu			Disease – Night	with milk and given
					fall, weakness.	15 days, 5 – 10 gm in
					ian, weakitess.	one glass of milk.
40.	Sataver	Asparagus	Asparagaceae	Climbing	Sataver – Root.	Shataver root powder
	2.200.01	racemosus		plant	Disease - Night	mixed with milk or
				F-unit	fall, weakness,	water and given daily
					shwet pradar &	1 - 2 times for 15
					leucorhhia.	days.
L						

41.	Amrita	Tinospora	Menispermaceae	Herb	Amrita – Whole	Amrita herb used in
41.		cordifolia	Menispermaceae		plant. Disease – T.B. Fiver, weakness, Asthma, Itching and sugar.	powder from and given in the morning for 15 days and amrita shoot are cut 1 -2 inch and boil with water, this boiled water are taken in morning for 15 days.
42.	Behera	Terminalia bellirica	Combretaceae	Tree	Behera – Seed Disease – Weakness, analgesic & cough.	Behera seed powdered are given daily 1 – 2 times for 15 days as cure the disease.
43.	Konch	Mucuna pruriens	Fabaceae	Climber	Konch – seed. Disease – Night fall, weakness, headache, general vigour and vitality.	Konch seed powdered 1 -2 spoon mixed with milk/ water and taken daily for 15 days to cure disease.
44.	Paneer bandh	Withania coagulans	Solanaceae	Tree	Paneer – Fruit. Disease – Diabetic.	2 – 3 paneer fruit mix with water at night and taken daily in the morning for 1 month.
45.	Sajana or Munga	Moringa oleifera	Moringaceae	Tree	Munga – Leaf, Fruit. Disease -	Munga leaf powdered taken daily 2 – 3 spoon water & fruit are taken directly, chewed and taken for 1 week.
46.	Salam panja	Dactylorhiza hatagirea	Orchidaceae	Perennial herb epiphyte	Salampanja – Leaf Disease – weakness, night fall.	Salampanja laef powder mixed with misri is given 2 – 3 times daily for one week.
47	Black Mustard	Brassica nigra	Cruciferacea	Plant	Black Mustard – Seed Disease – Body pain, headache, Burning parts of the body.	Black Mustard oil and Garlic are heated for 1 – 2 minute and used on body parts as pain reliever. And also used in urine problem of child black mustard oil used for cleaning of wax of the Ear.
48	China Rose	Hibiscus rosa	Malvaceae	Plant	China rose – Flower. Disease – Night fall, Weakness.	China rose flower are crushed and mix with misri and taken daily 2 – 3 times for 1 week.
49	Duddhi grass	Euphorbia hirta	Euphorbiaceae	Herb	Duddhi grass – whole Plant Disease – Vomiting, lose motion.	Duddhi grass and boiled rice are cooked in water and then wrapped in Sal leaves and the drained water is used to cure the loose motion and vomiting.
50	Beetal (paan)	Piper betal	Piperaceae	Climber	Paan – leaf Disease – Dog bite.	Paan leaf and Banana shoot, kali mirch are powdered and mixed with misri taken 15 – 16 times.
51	Nag Kunda	Tabernaemontana alternifolia	Apocynaceae	Small Tree	Nag kuda – Leaf Disease – skin, wound.	Nagkuda leaf are boil and mixed with ghee and used on the wound portion daily 1 – 2 times.

52	Joundish	Sesbania	Fabaceae	Tree	Joundish phool –	Fruit & Flower are
52	phool	grandiflora	Fabaceae	Tree	Fruit, flower. Disease – Joundish,	crushed with water during night and used in the morning 1 – 3 day to cure the
					Vomiting.	disease.
53	Minjur gori	Celrodendrum infortunatum	Lamiaceae	Shrub	Minjur gori – Bark	Minjur gori + Kunjori root are powdered
					Disease – T.B.	and mixed with misri and taken daily 3 times for 1 week.
54	Saman jori	Albizia saman	Mimosaceae	Tree	Saman jori – Bark, Leaf. Disease – Mirgi (Epilepsy).	Saman jori + Palti are powdered and mixed with sugar/misri taken daily 1 -2 times for 1 month.
55	Amarbeal	Cuscuta reflexa	Convolvulaceae	Plant	Amarbeal – seed, bark. Disease – Stomach pain, jaundice.	Amarbeal bark, seed +Neem leaves +seeds of Cassia tora (Charota) are powdered and taken daily with Milk/water for 15 days.
56	Banmethi	Sida acuta	Malvaceae	Plant	Banmethi – Leaf Disease – Body pain	Banmethi leaf paste is applied on body to cure body pain for 2 - 3 hours.
57	Bakin	Melia azadirachta	Meliaceae	Plant	Bakin – fruit Disease – headache, toothache,	Bakin fruit is ground into paste and mixed with honey to use daily 1 -2 times for 1 week to cure disease.
58	Bija sal	Pterocarpus marsupium	Fabaceae	Tree	Bija sal – Gum Disease – Toothache, Earache.	Bija sal gum are mixed with honey and applied to cure toothache problem for 3 – 4 days. and also used the Hara seed powdered to use brush to cure the wound & bleeding of mouth parts.
59	Buch	Acorus calamus	Acoraceae	Plant	Buch – Rhizomes Disease – Liver disorders	Buch Rhizomes are collected dried and powdered are consumed with water for 15 days.
60	Kali Haldi	Curcuma longa	Zingiberaceae	Plant	Kali Haldi – Rhizome Ddisease – Asthma, cold, cough.	The pest prepared from rhizome of Kali Haldi is applied externally on lungs and affected parts to cure asthma for 1 months.
61	Semul	Bombax ceiba	Malvaceae	Plant	Semul – Bark, Leaf, flower, seed. Disease – Snake bite. Urinary infection, menstrual disorders.	Semul + moringa leaf are crushed and pest is prepared then this pest is applied on wounds caused by snakebite to relief 1 – 2 hours. and also used as a Kapok. Tribal use root decoction prepared from semul +Curculigo orchioides (Kali musli) is filterd by a piece of cloth and

						50 ml of this preparation is given twice a day for period of 10 -15 days for cure infection.
62	Tikhur	Curcuma angustifolia	Zingiberaceae	Plant	Tikhur – Root, stem, tuber, and leaves. Disease – Bone Fracture	Tikhur + solanum torvam (Ringi) plant are powdered and pest is prepared and applied the fracture portion of the body for 2 -3 times daily for 1 -2 months.
63	Mango	Mangifera indica	Anacardiaceae	Tree	Mango – Fruit Disease – sun strock.	Unripe Mango fruit pulp are mixed with water & taken daily and mango past applied for 3 – 5 days.

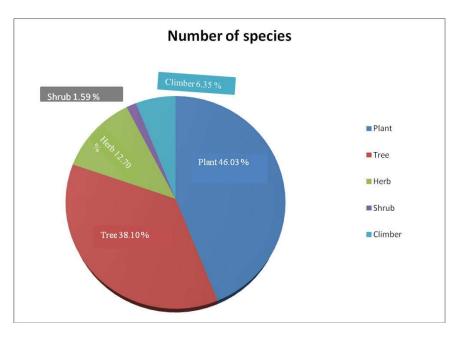
Out of 63 medicinal plants reported in the present paper maximum 9 plants were from Fabaceae family followed by 7 from Malvaceae and minimum 1 plants from each of the families such as Acanthaceae, Mimosoideae, Uglyhuridthis and Nyctaginaceae. The remaining each of the 24 families possesses single plant only in table 2.

Table2:	List of fa	amily (	of Medicinal	Plant found i	n tribal farmers

List of fa		<u>Plant found in triba</u>
Sl. no.	Name of family	Number of species
1.	Acanthaceae	1
2.	Acoraceae	1
3.	Altingiaceae	1
4.	Amarykkidaceae	1
5.	Anacardiaceae	1
6.	Apiaceae	1
7.	Apocynaceae	1
8.	Arecaceae	1
9.	Asparagaceae	2
10.	Combretaceae	2
11.	Convolvulaceae	1
12.	Cruciferacea	1
13.	Dipterocarpaceae	1
14.	Euphorbiaceae	2
15.	Fabaceae	9
16.	Hypoxidaceae	1
17.	Lamiaceae	2
18.	Liliaceae	2
19.	Malvaceae	7
20.	Meliaceae	2
21.	Menispermaceae	1
22.	Mimosaceae	1
23.	Mimosoideae	1
24.	Moringaceae	1
25.	Myrtacea	1
26.	Nyctaginaceae	1
27.	Nyctaginaceae	1
28.	Orchidaceae	2
29.	Phyllanthaceae	1
30.	Piperaceae	2
31.	Plantaginaceae	1
32.	Rutaceae	2
33.	Sapindaceae	1
34.	Sapotaceae	1
35.	Solanaceae	2
36.	Uglyhuridthis	1
37.	Zingiberaceae	3

Out of reported 63 medicinal plants, 29 species were plants followed by 24 trees and minimum shrub 01. Hence, the plants in terms of number of species 46.03 % as these are abundant and frequently found in their surroundings.

Table 3: Nature of habit of Medicinal Plant					
Sl. No.	Nature of Habit	Number of species			
1.	Plant	29			
2.	Tree	24			
3.	Herb	08			
4.	Shrub	01			
5.	Climber	04			



# CONCLUSION

The study of ethnomedicinal plants in traditional management of human ailments indicates that the study area is rich in its medicinal plant composition and the associated indigenous knowledge. The wide uses of these medicinal plants indicate that there is good consensus on the effectiveness of their medicinal properties. The traditional medicinal plants are central to the rural cultures. People are knowledgeable about the plants, their distribution, use, and conservation. Indigenous practices somehow contributed to the sustained use, management and conservation of medicinal plants. This is further buffered by cultural and spiritual practices. Traditional medicinal plants are harvested largely from wild stands and in small proportion from cultivated plants for various purposes. Moreover, most medicinal plants were reported to have other use values in addition to their medicinal use, such as fodder, wild edible plants (food), hygienic and perfuming use, live fencing, fuel wood and charcoal, rituals use, construction etc.

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