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# ENUMERATION OF IMPORTANT ETHNO-BOTANICAL PLANTS\_SUGALI TRIBE OF VENKATAM PALLI THANDA, ANANTAPURAMU, ANDHRA PRADESH

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# Abstract:

The preliminary investigations of Ethnobotanical and Cultural Resources of Sugali tribes of Venkatampalli Thanda, Anantapuramu district, Andhra Pradesh with their recipes, preparation of drugs, administration, and usage from several centuries. Therapeutic uses of some of the species given in the table were cross checked with alternative ethno botanical systems viz. Ayurveda, Unani, Sidha and Homeopathy. **69 crude drugs** (*species*) **belonging to 63 genera and 30 families** were collected based on folk-lore knowledged.

# Introduction

Andhra Pradesh comprises two major regions, namely Rayalaseema in the south-west and coastal Andhra bordering the Bay of Bengal in the east and north-east. The state has thirteen districts, nine located in coastal Andhra and four Rayalaseema. The climate of Andhra Pradesh varies considerably, depending on the geographical region. Temparature ranging between 20-41 <sup>o</sup>C. Anantapuramu is located at 14.68<sup>o</sup> N 77.6<sup>o</sup> E. it has an average elevation of 335 m (1,099 ft). Anantapuramu has a semi-arid climate, with hot and dry conditions for most of the year.

The Lambadies, are called by various names in different places like Lambani, Brinjari or Banjari, Boipari, Sugali or Sukali. Sugalis are the well known tribe of porters found all over Western and Southern parts of India. Lambadies claim their descendence from vali and sugriva, the two tribal chiefs mentioned in *Ramayana*. The womenfolk of this tribe particularly present a distinct feature. They are the most robust among women of Indian

origin. They can undergo a great deal of labour with apparent ease. They are mostly living peculiar, ornaments so singularly chosen they are chaste and affable. They use bows, arrows, sword and shields. The common occupation of the lambadies is transport, especially in the hill and forest tracts with difficult access, of grain and other produce on pack bullocks. They live in detached clusters of rude huts, called thandas, at some distance from established villages.

The present proposal designed with a background of previous studies in Andhra Pradesh State aimed at to provide an update inventory of Ethno medicinal important of Sugali tribe of Andhrapradesh State. Primitive ethno medicinal field collection trips plan to tribal pockets in Venkatam Palli Thanda, Anantapur District. Intensive interviews were conducted with tribal Nayakas at their dwellings according to the methods described by Jain and Rao (1983); Sudarsanam & Rao (1994) and Balaji Rao et al. (1995). The end database, after previous studies in Sugali tribe various states comprise an update nomenclature for every taxon following the 'Plant List (2013)', distribution data, life form data, topography data, complete herbarium data preserved in national and international herbaria representing the study area. Photographs will be provided for all the species. Collection localities will be geo-referenced. The data generated in the present study will be not only useful to taxonomist, ecologists and conservation scientists, but also for a range of research, policy and intellectual property rights.

#### **MATERIALS & METHODS**

During study of Ethno botanical of Sugali tribe in the Anantapuramu District (Rayalaseema Region) various field trips were conducted and were vouched from various natural populations during the period 2020-2021. Critical study of herbarium specimens deposited at EPTRI was done. Perusal of *related published literature* (Amarasingham et al. (1964), Chabra et al. (1984), Chadwick and Marsh (1994). Chopra et al. (1956), Das and Bhattachargee (1970), Gamble (1953), Gibbs (1974), Hamambara Reddy et al. (1998), Harborne (1984), Hooker (1984), Jain (1964), Jain (1981) Kirtikar and Boser (1933), Nadkarni (1976), Pullaiah and Yasodamma (1989), Reddy et al. (1986) and Santaram (1983) for the taxonomic confirmation. Updated nomenclature, distribution along with field photographs have been presented. Field specimens were deposited in EPTRI, Hyderabad (EPTRI). Field Photographs of the species are provided for easy identification.

#### **Procedures**

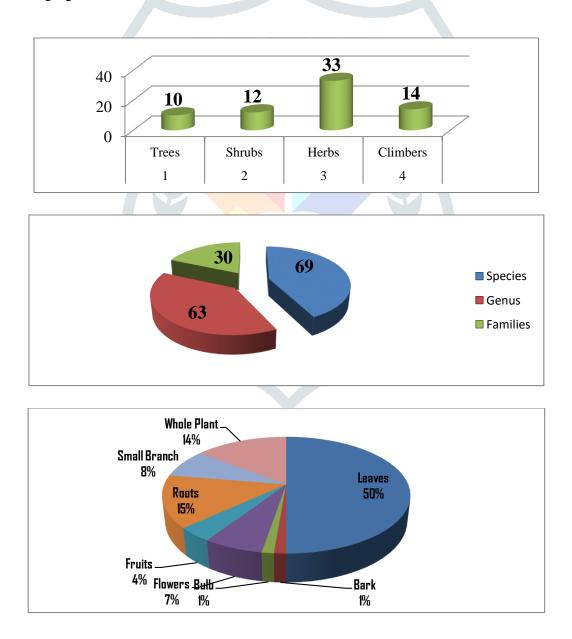
Herbarium specimens were prepared following the standard techniques); additionally, leaves and flowers were preserved in AFA (Alcohol, formaldehyde, acetic acid) for morphological analysis. The description follows the terminology of Lindley (1951). The descriptions and illustrations were based on living specimens and field collections. Plants were photographed (GIS) in the field. A perusal of *related published literature* (Amarasingham et al. (1964), Chabra et al. (1984), Chadwick and Marsh (1994), Chopra et al. (1956), Das and Bhattacharjee (1970), Gamble (1953), Gibbs (1974), Hamambara Reddy et al. (1998), Harborne (1984), Hooker (1984), Jain (1964), Jain (1981), Kirtikar and Boser (1933) Nadkarni (1976) Pullaiah and Yasodamma (1989), Reddy et al. JETIR2307505 Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org f35

(1986), Santaram (1983), and Shaikmahaboob et al. (2021) for the taxonomic confirmation. Updated nomenclature, distribution along with field photographs has been presented. All Field data was noted carefully in field notebooks, and each drug material was individually recorded videos and photographs were taken with GIS tags.

#### **RESULTS & DISCUSSION**

The preliminary investigations of Ethnobotanical and Cultural Resources of Sugali tribes of Venkatampalli Thanda, Anantapuramu district, Andhra Pradesh with their recipes, preparation of drugs, administration, and usage from several centuries. Therapeutic uses of some of the species given in the table were cross checked with alternative ethno botanical systems viz. Ayurveda, Unani, Sidha and Homeopathy. 69 crude drugs belonging to 63 genera and 30 families were collected based on folk-lore knowledge. The dominant families with respect to number of species are Leguminosae (11), Euphorbiaceae (5), Apocynaceae (5), Malvaceae (4), Cucurbitaceae (4), Amaranthaceae (4), Lamiaceae (4), Solanaceae (4), Acanthaceae (3), Asparagaceae (2), Menispermaceae (2), Asteraceae (2) and Rhamnaceae (2). Analysis of plants tissues followed tribes used leaves highly 50%, Roots 15%, Whole plants 14%, Small branches 8%, Flowers 7%, Fruits 4%, Bulb (Asparagus racemosus) 1% and remaining Bark (Anogeissus latifolia) 1%. Some of the data was cross checked with alternative ethnobotanical systems namely Ayurveda, Unini, Sidha and homeopathy. Following species Abrus precatorius used in Ayurveda, Siddha, and Unani for snake bite antidote and aphrodisiac, while in Homeopathy it's used for chronic pain. Abutilon indicum used in Ayurveda, Siddha, and Unani for malarial fevers, while in Homeopathy it's used for chronic rheumatism and sciatica. Acacia nilotica used in Ayurveda, Siddha, and Unani for furuncles and edema, while in Homeopathy it's used for skin diseases. Acalypha ciliata used in Ayurveda for rejuvenating the body, while in Homeopathy it's used for respiratory diseases. Acalypha indica used in Ayurveda for reducing phlegm, cough, asthma, and other breathing problems, while in Homeopathy it's used for liver and spleen disorders. Achyranthes aspera used in Ayurveda, Siddha, and Unani for snake and scorpion bite antidote, while in Homeopathy it's used for rheumatism and arthritis. Acmella paniculata used in Ayurveda, Siddha, and Unani for toothache and throat infections, while in Homeopathy it's used for mouth ulcers. Agave americana used in Ayurveda for inducing abortion, while in Siddha and Unani it's used for menstrual disorders and sexual debility, respectively. In Homeopathy, it's used for neuralgic pain. Albizia *lebbeck* used in Ayurveda, Siddha, and Unani for snake and scorpion bite antidote, while in Homeopathy it's used for nervous system disorders. Ammannia baccifera used in Ayurveda for edema and skin diseases, while in Homeopathy it's used for stomach and liver disorders. Andrographis paniculata used in Ayurveda, Siddha, and Unani for fever, colic pain, and mouth ulcers, while in Homeopathy it's used for influenza and common cold. Anisomeles malabarica used in Ayurveda, Siddha, and Unani for headache, vitality, and psychosis, while in Homeopathy it's used for skin diseases. Aristolochia bracteolata used in Ayurveda, Siddha, and Unani for stomach ache, anti-diarrhea, and snake bite antidote, while in Homeopathy it's used for intestinal colic and flatulence. Asparagus racemosus used in Ayurveda, Siddha, and Unani for rheumatism, while in Homeopathy it's used for infertility and leucorrhea. Balanites aegyptiaca used in Ayurveda for anti-dandruff, while in Siddha and Unani it's

used for constipation and bronchitis, respectively. In Homeopathy, it's used for skin diseases. *Caesalpinia bonduc* used in Ayurveda, Siddha, and Unani for prolonged fevers, while in Homeopathy it's used for urinary tract infections. The Sugali tribe possessing rich folklore information forms the prime source and exists scope to extend scientific research in further isolation and characterization of active principles involved in the pharmacological utility. Keeping because the fact potential source of medicinal plants of folklore origin needs to be preserved and conserved. In an extremely interesting study, Sugali tribe uses traditional stories and myths to analyse the symbolic function of trees in Andhra Pradesh. Sacred groves are the site of ritual and secret society initiations, a local where social and political values, morals, secrets, and laws are passed on to the younger generations. *Ficus religiosa, Azadirachta indica, Prosopis cineraria, Albizia amara* is also a sacred trees throughout the Andhra Pradesh and Telangana states. There is little information on the ways in which these values are changing. No studies explore the implications of changing cultural values on forest resource use.



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			Vern.	Plant		
S.	Name of the		Names	parts	Preparation/Admi	
No	Species	Family	(Sugalis)	Use	nistration	Medicinal Use
					Macerated with	
					water/drunk Root	
					Juice/oral 3 times a	Menorrhea Snake
	Abrus				day cotyledons	bite antidote
1	precatorius L.	Leguminosae	Gurivindha	L, R	powdered/oral	Aphrodisiac
	Abutilon					
	indicum (L.)		Naalrare		With garlic juice	
2	Sweet	Malvaceae	Jaad	L	extract/oral	Malarial fevers
					Heated and placed	
	Acacia nilotica				on the spot for 3	Furuncles,
3	(L.) Delile	Leguminosae	Jaali Jaad	L	days	Oedema
					Leaves are applied	
					as dressing to sores	
					(4, 5); crushed	
	Acalypha ciliata		Adavi		plant is used for	Rejuvenate the
4	Forssk.	Euphorbiaceae	pippinta	L	skin parasites.	body

Appendix 1. Plants List-Sugali Tribes Crude Drugs Preparation methods

						Used for teeth
						pain reduce
						phlegm and in the
					Leaves mixed with	treatment of
					pepper, and garlic	cough asthma and
	Acalypha indica				extract/oral for 3-6	other breathing
5	L.	Euphorbiaceae	Pippi	L	times.	problem
						Snake and
	Achyranthes					scorpion bite
6	aspera L.	Amaranthaceae	-	R	Root decoction/oral	antidote
					Flowers applied on	
					the tongue below 5-	
					10 year children	
	Acmella	J			and used in	
	paniculata				toothache and	
	(Wall. ex Dc.)		Vana		infections of the	Toothache and
7	R.K. Jansen	Asteraceae	mo <mark>gga</mark>	Fl	throat and gum	throat and gum
	Agave				Dried pulp/oral for	
8	<i>americana</i> L.	Asparagaceae		L	weekdays	Abortifacient
						Snake and
	Albizia lebbeck				Juice (50 ml)/ oral	scorpion bite
9	(L.) Benth.	Leguminosae	-	L	for 3 times	antidote
					Pulp was applied	
					on the area for 3	Edema and skin
					days Juice with dry	disease Ascariasis
	Ammannia				chillies/oral for 3	and Stomach
10	<i>baccifera</i> L.	Lythraceae	-	L	days	pain.
					Anti-inflammatory,	
	Andrographis				antiviral, and	
	paniculata				antioxidant	Fever, colic pain,
11	(Burm.f.) Nees	Acanthaceae	-	L	properties	mouth ulcers
					Burnt and	
	Anisomeles				vapors/inhaled	Psychosis,
	malabarica (L.)				decoction/oral.	Unconsciousness
12	R.Br. ex Sims	Lamiaceae	-	Wp	Leaves placed on	Vitality Headache

					the fore head for an	
					overnight	
					Applied paste on	Stomach ache,
					bitten area leaves	Anti-diarrhea, and
	Aristolochia				with pepper,	Snake bite
	bracteolata	Aristolochiacea	Gaadidhag		Juice/oral for tree	antidote
13	Lam.	e	adapaaku	L	ties	Ascariasis.
	Asparagus				Fresh bulbs	
	racemosus				collected and	
14	Willd.	Asparagaceae	-	R	boiled orally taken	Rheumatism
	Balanites					
	aegyptiaca (L.)	Zygophyllacea			Fruits pulp or Juice	
15	Delile	e		Fr	direct applied hairs	Antidandruff
					Leaf decoction/	
	Caesalpinia				oral for 3 times.	
	<i>bonduc</i> (L.)		Gachikaay		Powder missed	
16	Roxb.	Leguminosae	jaad	L	with jaggery/oral	Prolonged fevers
	Calotropis					
	gigantea (L.)				Juice/oral for	
17	Dryand.	Apocynaceae	Aake <mark>r Jaa</mark> d	L	vomiting.	Antitoxicsis
					Leaves are widely	
					used as counter-	
					irritant, febrifuge,	
					and as a cataplasm	An antidote to
	Capparis				in swelling, boils,	snake bite,
18	<i>zeylanica</i> L.	Capparaceae	-	F	and piles	cholera
	Cardiospermum				Paste applied on	
19	halicacabum L.	Sapindaceae	-	L	the part	Oedema
	Celosia		Laambdi		Extract orally for 3	
20	argentea L.	Amaranthaceae	bhaaji	R	days	Typhoid fevers
					Young shoots used	
	Cissus				for vegetable-	
	quadrangularis				helping prevent	Bone fracture and
21	L.	Vitaceae	Nalleru	L	metabolic	allergies

f41

					syndrome	
					Pulp macerated	
					with garlic,	
	Citrullus				extract/oral for	Psychosis and
	colosynthis (L.)		Moto		weekdays fruit pulp	anxiety
22	Schrad.	Cucurbitaceae	Kodivasela	F	squeezed/oral	Constipation
	Cleome		Bhangroo		Heated fruit placed	
23	gynandra L.	Cleomaceae	Jaad	L	on the ankle	Calcareous spur
					Boiled in water and	
					vapors/inhaled	Severe and
					Extract with	prolonged body
			$\mathbf{K}'$	`IR	pepper/oral, 3	aches
	Clerodendrum				times. Leaf	Constipation and
24	<i>phlomidis</i> L.f.	Lamiaceae	<u>k</u> -	L	extract/oral	dropsy Debility
					Juice was applied	
					on the affected part	
					of the head juice/	
					oral and applied on	
	Coccinia				the bitten area Juice	Tenia capitis
	grandis (L.)				5 or 6 drops in the	Scorpion bite
25	Voigt	Cucurbitaceae	-	L	ear	antidote Otalgia
	Cocculus					
	hirsutus (L.) W.	Menispermacea	Dussara		Used leaves juice	Stomach and
26	Theob.	e	theega	L	for body cooling	ovary disorders
			×		About 200 ml	
					Juice/ oral for	
					vomiting juice	
	Corallocarpus				dropped in the ears	Snakebite
	epigaeus				twice a day for	antidote
27	(Rottler) Hook.f.	Cucurbitaceae	-	R	three days	Nostalgia
	Corbichonia				Past with cow	
	decumbens	Lophiocarpace			urine/oral for	Yellow and white
28	(Forssk.) Exell	ae	-	R	weekdays	jaundice

					Powder with	
					jaggery/oral for 40	
					days Powder with	
					hibiscus rosa-	
	Cyperus				sinensis	Leucoderma,
	stoloniferus				leaves/applied with	blood purification
29	Retz.	Cyperaceae	-	R	coconut oil.	dandruff
					Mixed with egg	
	Dicliptera				white and lime	
	paniculata				applied on the	
	(Forssk.) I.				fracture and made a	
30	Darbysh.	Acanthaceae	-	Wp	bandage	Bone fracture
	Dodonea					
	viscosa (L.)		Bhandarare			Bone fracture,
31	Jacq.	Sapindaceae	Jaad	L		rheumatism
				Z	Mixed with pepper	
	Enicostema				macerated and	
	axillare (Poir.				placed around	
	ex Lam.) A.				finger and dressing	
32	Raynal	Gentianaceae	-	Wp	for 3 days	Whitlow
					Extract/oral 3-8	
					times after	
					delivering heated	
					leaves applied on	
					the part latex	
	Euphorbia				applied directly on	Lactation Skin
33	<i>heterophylla</i> L.	Euphorbiaceae	-	Wp	the parts	abs cense Syphilis
					with garlic, and	Dry cough in
	Euphorbia				pepper	children,
	heyneana				macerated/oral for	influenza,
34	Spreng.	Euphorbiaceae	-	Wp	3 days	prolonged fevers
					Fresh leaves and	
					Garlic 1-2 pieces	
	Euphorbia hirta		Dhoodhaer		mixture 5 gm, daily	Best Milk
35	L.	Euphorbiaceae	jaad	L	morning 2-3 days	Production

					taken	
					About	
	Grewia tenax				10gm/chewed for	Snake and
36	(Forssk.) Fiori	Malvaceae	-	R	one time	scorpion bite
					Leaves direct	
	Gymnema				eating for sugar,	
	sylvestre (Retz.)				leaves juice used	
37	R.Br. ex Sm.	Apocynaceae	-	L, R	for pain	Diabetes
					Extract with	Snake and
	Heliotropium				jaggery/oral for one	scorpion bite
38	indicum L.	Boraginaceae		L	time	antidote
					With egg, lime,	
					turmeric, and pulp	
			K		mixed dressing in	
	Hibiscus				made daily for 5	
39	<i>micranthus</i> L.f.	Malvaceae	- /	L	days. Extract	Bone fracture
					Heated, placed on	Wounds, burns,
	Ipomoea				the spot, and	boils skin absce
	obscura (L.) Ker	Convolvulacea			dressed juice 20	giddiness, and
40	Gawl.	e	-	Wp	ml/oral	nausea
						Furuncles,
	Jasminum				Juice applied on the	Oedema for 3
41	azoricum L.	Oleaceae	-	L	spot Ker-Gall	days
					Macerated with	
	Jatropha		×		jowar seeds applied	Furuncles,
42	gossypiifolia L.	Euphorbiaceae	-	L	for weekdays	Hematoma
					Leaves extract	Wound
	Lantana				applying on	Healing/Anti-
43	camara L.	Verbenaceae	Bheli Jaad	L	wounds	inflammatory
					Ash with coconut	
					oil, made to paste,	Anti-
					applied on the	inflammatory,
	Lepidagathis				affected part for	skin abscess,
44	cristata Willd.	Acanthaceae	-	L	weekdays	tumors

					Extract with	Malaria,
					pepper, garlic/Oral	intermittent
					Extract dropped in	fevers
	Leucas aspera				the opposite ear of	encephalitis
45	(Willd.) Link	Lamiaceae	-	L	the Pain side	migraine
					Juice extracted	
					with 5 gm	
					musambaram/oral 3	
	Luffa tuberosa		Kolaar		times a day for 3	
46	Roxb.	Cucurbitaceae	Jaad	R	days	Abortifacient
	Parkinsonia				Extract orally for 3	
47	<i>aculeata</i> L.	Leguminosae	-	L	days	Anemia, Fatigue
	Pedalium				Mouth gargling	
48	<i>murex</i> L.	Pedaliaceae		Wp	with decoction	Dental caries
			4		A small quantity of	
					root was collected	
					and added finger	
					millet powder add	
					one glass of water -	
					boiled throughout	
	Pergularia				the wounds and a	
49	daemia(Forssk.)	Apocynaceae		L	few areas 5-6 drops	
47	Chiov.	Apocynaccac		L	of extract were	
	Cinov.				dropped in the	
					opposite ear to the	
					bitten area for one	
					time. With pepper	
					macerated applied	
					to the knee for	Scorpion bite
					weekdays	antidote Oedema
	Phyllanthus					
	amarus				With clover dry	
	Schumach. &				ginger extract/oral	Yellow with
50	Thonn.	Phyllanthaceae	-	Wp	for three weeks	white jaundice

f46

					Extract with	
	Pithecellobium				jaggery of	
	<i>dulce</i> (Roxb.)		Seemachint		<i>borasus</i> /oral very	
51	Benth.	Leguminosae	ha Jaad	Sb	often	Thirst
					20 ml extract/oral	
					for weekdays,	
					Powder with	
					pepper/oral with	
	Pongamia				milk for 3 days,	Dog bite antidote,
	pinnata (L.)		Kaanegaer		Extract/oral for	Whooping cough,
52	Pierre	Leguminosae	Jaad	F, R	three days	Gonorrhea
					Fresh leaves	
					putting on the head	
		J			one night to get	
					relief from	
	Ricinus		Arendare		headache-related	
53	communis L.	Euphorbiaceae	jaad	L	issues	Headache
					Decoction/oral for	
	Senna				3 days young	
	auriculata (L.)		Valanyaar		leaves chewed	Leucorrhoea
54	Roxb.	Leguminosae	Jaad	F, L	repeatedly	Snakebite
					Decoction/ oral for	
					3 days dry	Constipation/purg
	Senna italica				powder/oral with	ative Health tonic
55	Mill.	Leguminosae		L	goat milk	for 15 days
					Ripening fruits	
					edible, fresh leaves	
					collect before	
					washed and after	
					boiled and mixing	
	Solanum				coconut powder,	
	americanum				mirchi powder and	
56	Mill.	Solanaceae	Kasaaku	Wp	add salt.	Stomach ache

					Juice mixed with	
					turmeric powder is	
					applied inside the	
	Solanum				eyelid. Macerated,	
	surattense				applied, and	
57	Burm. f.	Solanaceae	-	F	exposed to sunlight	Jaundice, Scabies
					Leaves are mainly	
					used for the	
					treatment of tooth	wounds, tooth
	Solanum				decay, and	decay, arterial
58	<i>torvum</i> Sw.	Solanaceae	Ringini	L	hypertensions.	hypertension
					Decoction with	
	Syzygium				lemon juice in	
	cumini (L.)		Jaamboo		honey/oral twice a	
59	Skeels	Myrtaceae	Jaad	В	day for two days	Antidiabetic
					Macerated with	
					water applied on	
					bitten area	Scorpion bite
	Tamarindus				Extraction/oral for	antidote
60	indica L.	Leguminosae	<mark>Aamli Jaa</mark> d	В	3 days	Menorrhea
					Decoction with	
	Tephrosia				garlic dropped (2-3	
	<i>purpurea</i> (L.)		Vempalli		drops) in ears for 3	Nostalgia,
61	Pers.	Leguminosae	Jaad	R	days brushing daily	Pyorrhea
	Tinospora				Diabetic patients	
	sinensis (Lour.)	Menispermacea			took one or two	Diabetes, high
62	Merr.	e	-	L	leaves regularly	cholesterol
					Used in the	
					treatment of	
	Trichuriella				scorpion stings,	Scorpion sting,
	<i>monsoniae</i> (L.				headache boils,	headache, sores,
63	f.) Bennet	Amaranthaceae	-	Wp	sores, and wounds	and wounds
	Tridax					
	procumbens				Juice was applied	
64	(L.) L.	Asteraceae	-	L	on the spot	Cut and wounds

	Tylophora					
	<i>indica</i> (Burm.				Leaves and latex	Mouth allergies,
65	f.) Merr.	Apocynaceae	-	L	were orally applied	asthma, cough
					Warmed leaves	
					were applied to the	
					part. Fresh leaves	
					are dressed on to	
					forehead during	Rheumatic pains
			Kaalo		sleep. Decoction	Headache,
	Vitex negundo		Samaeli		with capsicum/oral	Giddiness,
66	L.	Lamiaceae	Jaad	L	for 3 days	Postnatal debilit
					For knee joint,	
	Withania				pain-used leaves	
	<i>somnifera</i> (L.)				juice is also used in	
67	Dunal	Solanaceae	-	L	goat & sheep	Arthritic disease
					Macerated pulp	
					with butter placed	
					around the finger	Whitlow,
	Wrightia		Dhoodhir		and dressed for 3	Rheumatoid
68	<i>tinctoria</i> R.Br.	Apocynaceae	Jaad	L	days	arthritis
					Fresh leaf, prepared	
					paste with	
	Ziziphus jujuba		Bhorer		asafetida/oral for 3	Constipation in
69	Mill.	Rhamnaceae	Jaad	L	days	children