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# Study of Ethno-Medicinal Plant of Sapotra tehsil in Karauli District, Rajasthan, India



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### Abstract

Sapotra tehsil of Karauli district of eastern Rajasthan have dominated tribal community, whose main occupation is agriculture as well as animal husbandry is the second largest occupation. The people of the traditional community have a rich knowledge about medicinal use of local flora , whose knowledge is limited to the people of the tribal community and the traditional community is carrier of medicinal science. Knowledge continues to be passed on from generation to generation, but as an exception, knowledge of forest medicinal plants is not disclosed to any other due to lack of son / progeny / premature death by many tribal exorcists and this heritage would disappear with their death . In this paper, we are studying about various parts of 35 plant species of 20 families, such as root, stem, leaf, fruit, flowers, bark, gum and latex etc. used as household remedies by tribal community of Sapotra tehsil of Karauli district . Local residents of the area have been treating diseases like stomach pain, diarrhoea, cough, cold, impotence, jaundice, body tonic, pregnancy, abortion, cough, Blisters, swelling, sprains, fever, fracture, urinary problem, scorpion bite, snake bite, piles, dysentery, vomiting, etc. from generation to generation by plant products. They contain information about the quantity and how to take these ethnomedicine.

**Keywords:** Tribal community, Traditional, Ethno-medicine, Dang, Harbarium, Ingredients, Decoction

#### Introduction

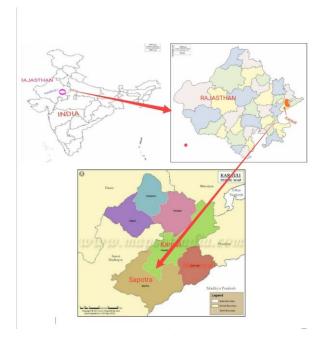
The Dang region of eastern Rajasthan has an important role in biodiversity, different type of plant species for example Acacia nilotica(L.), Argemone Mexicana, Acacia catechu, Adhatoda vasica, Azardirecta indica, Urginea indica are found here in which many plant species are used in home remedies but Anogissus pendula in this area is found as abundance.After contacting or interacting with local communities , an attempt has been made to write in this research paper.

The history of medicinal use of forest medicinal plants is associated with the development of mankind. Charak Samhita and Sushruta Samhita are the two oldest written texts of Ayurved . Similarly, the tribes also have information about the medicinal properties of many plants from ancient times which have been used in the treatment of various diseases, since ancient times and a lot of medicinal information is limited to them which comes out only after contact or interaction with them. Rajasthan has 9238534 tribe population which is 8.85% of the entire population of India and 13.5% of the entire population of Rajasthan which mainly resides in Udaipur, Dungarpur, Banswara, Pratapgarh, Dausa, Sawaimadhopur, Karauli and Rajsamand districts. Meena is a major tribal community in eastern Rajasthan And Gujar, Jogi ,Kanjar, Sansi, Mali, Mogia etc. are the traditional community whose main occupation is agriculture as well as animal husbandry is the second largest business. Tribal and traditional communities in this area, reared cows, sheep, goats, buffalo and dogs are reared as domestic animals. People of tribal and traditional communities have rich knowledge of forest medicinal plants in their surroundings, knowledge of which is limited to the people of tribal community and traditional community. The knowledge of medicinal science keeps on going from generation to generation, but as an exception, many tribal ojha in the absence of son / child / due to premature death,

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knowledge of forest medicinal plants is not told to anyone else and this heritage disappears with their death. (Sharma &Khandelwal, 2018)

Tribal community and other local community use the flora found there in daily life while living in a remote area, there is a long intensive study is still going on which highlights the ethno-medicinal plant found in Rajasthan by Joshi (1995). 384 medicinal plants found in Rajasthan were reported by Katewa and jain (2006) but this work was done in South Rajasthan. Ethnomedicinal plant of eastern Rajasthan was studied by Leena Sharma & Sitaram Khandelwal (2018), ethano-medicinal plants of the karauli district were studied by Meena et.al. (2003), Glimpses on ethno-veterinary plants of karauli district by Meena and Kumar (2015), Siliserh, alwar by Agrawal (2017) and western Rajasthan (Jaisalmer) by Alwar Kumar (2009)



#### Aim of the Study

To explore the etho-medicine knowledge of tribal and local Communities of the study area and information about the diversity of ethno-medicinal plants.

#### Survey area

A survey was conducted of 250 men from 58 villages of karanpur dang, Mandrayal and Sapotra tehsils of Karauli district in eastern Rajasthan, whose geographical location is between  $26^{\circ}29'$  N to  $26^{\circ}49'$  N and  $76^{\circ}74'$  E to  $77^{\circ}34'$  E. (Sekhawat & Batra, 2005) Fig.1.Location of Survey Area of Karauli District (Katewa & Galva, 2004)

#### **Materials and Methods**

Data collected through interviews ,observations, and participations, inquiry

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- 1. Discussion about various botanical aspects with tribal 88 Ojhas of different villages
- Interrogation with Elderly men/women of tribal community in individually and in groups.
- Information about ethno-medicine was discussed with Hakeem, local vaidh, Bhopas, Gothiyas. (Meena & Kumar, 2015)

To know the ethno-medicine importance of forest medicinal plants to collect valuable information from various mediums such as inquiry, observation, interview, approach with Old man, tribal Ojhas, Hakeem, local vaidh, Bhopas, Gothiyas. First of all data was collected by communicating with the head of village, sarpanch, panch- patel and elders . (Sharma &Khandelwal, 2018)

Plant specimens were collected to prepare herbarium sheets. Herbarium sheets of all the plants are stored in department of botany govt college Tonk, Rajasthan for further reference. Not only men but also some women of tribal and traditional communities also have knowledge about traditional medicine derived from many medicinal plants. Tribal and traditional communities in Eastern Rajasthan's Karauli district in the use of various diseases as medicine by the local community. The plant species to be taken are included below. (Table-1).

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				Observatio	on	
S. no	Local Name	Botanical Name	Family	Plant part used	Ailment	Method of treatment
	Bamool / Bamoor	Acacia nilotica(L.)	Mimosace ae	Gum	Dry Cough	Taking one tablespoon of gum and mixing it with one spoon of sugar kandy is taken twice a
				Bark	Diabetes, sore throat	day. Chewing gum. Chewing gum/By heating the bark of Acacia nilotica with
					Cough	water, filter the water, mix rock salt and gargle. One fourth teaspoon of ground
				Leaves	Urinary problem	leaves mixed with one teaspoon of honey with warm water 2 times a day. Take 2 gm leaves of Acacia
					Cold sores	biological with 1 gm Pedalium murex (Gokhru) and crushed,taken before bedtime with warm water. By chewing 2 grams of soft
					premature ejaculation. Diabetes	green leaves on an empty stomach in the morning or paste of leaves with curd.
				Fruit/ Pod	Pain of ear	To increase the sexual capacity and prevent premature ejaculation.Dry the seedless
				Flower	Pneumonia	pods in the shade and Grind equal quantities of the sugar and prepare the powder and take it daily in the evening with a glass of warm milk before bedtime
						The seeds of the fruit are extracted and made into a powder, one spoon each morning and evening with water.
						After taking 100 ml sesamum indicum oil, put 10 flowers of Asia Nilotica in it and after two days, when it turns dark, then after cooling, filter it and put two to three drops daily in the ear.
						Boil one spoonful of flower with gud and take it once a day with Trachyspermum ammi and Syzgium aromaticum.
	Satyanas i / pili kateli	Argemone Mexicana	Papaverac eae	Seeds	Protrusion Skin problem headache	The banana roots are boiled in water and filtered and the Powder of the seeds of Argentina maxican is mixed with banana water and given to animals.
				Latex	Rhumatic pain Eye flu	Seed oil is used in skin problems and headaches. Satanashi's milk is massaged
					J - ···-	on the knees.

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					The latex of Satyanasi is inserted
Khair	Acacia catechu	Mimosace a	Leaves Khair gum Bark	Cough, Stomach problem Cough, Bronchitis Dry cough	Acacia catechu plant extract provides immediate relief in sore throat. Extract of Acacia catechu is taken together with milk. Ladoos are made by frying gum in ghee with unrefined sugar for back pain joint pain and general ailments, which are eaten for conception after delivery and before menstruation. Chewing of bark.
Oonga/ Aandhee/ jhaada/ Latjeera	Achyranthes aspera	Amaranth aceae	Leaves, stem, root Root Leaves	Toothache, teeth whitening Itching Cough ,Cold, typhoid Teeth pain Wound Insect bite	Chewing of bark. The root and stem of Achyranthes aspera are used to reduce the swelling of gums and teeth whitening. to cure itching caused by Mucuna purines, the roots of Achyranthes aspera are boiling them in water and bathed. Prepare a decoction of roots and cure cough, cold, and typhoid. In the pain of teeth, the roots are crushed and placed between the teeth. Paste of leaves help in heading of wound. Paste of leaves help in loading the pain.
Sitaphal	Annona squamosa L.	Annonace ae	Leaves Seeds	Diarrhoea pediculus and lice	Diarrhoea is triggered by taking out the juice of the leaves and feeding the animals. Grinding the seeds and making a paste and applying them in the head, to kill the pediculus and lice
Satavari	Asparagus racemosus	Liliaceae	Roots	Impotency/in crease sexual ability, Lactagogue To stop abortion. Health tonic, Stomachach e	A teaspoon of root powder is taken with hot milk at night made at night. Used in making laddooes with the use of root powder. Roots are eaten raw for good health.

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Garlic / Lahsun	Allium sativum	Liliaceae	Falkes	Lactagogue	Making Kheer with milk and given orally twice a day for
				Cough	three day. Garlic falkes is kept in wet
				Ear pain	clothes and roasted to ashes and eaten at bedtime.
					Take a little sesame oil and put
				Ringworm	garlic bud in it and heat it. After that, after cooling,2-3 drops are
					put in the ear, which cures ear
					pain. A paste with chirol leaves is
					applied to the ringworm area
Adsuta/ Basouda	Adhatoda vasica	Acaanthac ea	Leaves	Cough and Cold	Decoction of leaves is taken twice a day for three days.
Ratti	Abrus precatorius L.	Papilionac eae	Leaves	Cure wound ,blisters	Paste of leaves Chewing the leaves early in the
	L.	606		,51131613	morning and evening
Hingota	Balanites	Balanitace	Kernel	Cure cough	Roasted fruit kernel with
	aegyptiaca L.	ae		Pimples	jaggery, twice a day for three days.
				,boils	The ointment is made by rubbing roasted kernel in cow's
			Root	Wounds	ghee on a stone.
				healing	The ointment is made by rubbing roasted kernel in
				Haemorrhag	sesame oil on a stone.
				е	The roots are mashed and
				Prevent hair	soaked in water over night,
				falling	Water is fed on an empty stomach in the morning.
					Fruit pulp /kernel paste is used to prevent hair fall.
Santi	Boerhavia diffusa L.	Nyctagina	Root	Stomach ache	The roots are given orally by
	L.	ceae		/vomiting	mashing them in water and making a paste with sugar.
				Liver dysfunction,	Roots powder is made and
				Urinary tract	given to the hungry stomach for
Amaltas	Cassia fistula	Caesalpini	Bark	infection Diarrhoea	1 week. The bark of stem is crushed and
		acea			soaked in water overnight and orally given in the morning.
Kasondi	Cassia	Caesalpini	Leaves	Bone	The leaves are mashed and
	occidentals.L	acea		fracture	mixed with egg albumin and sheep milk and applied on the fractured area.

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Arand	Riccinus cummunis L.	Euphorbia ceae	Leaves	Vermicide	Giving juice of leaves ( 2 to 10 grams). The jaggery is fed before the juice is fed.
				Cure headache, muscular pain, nodule in Breast,	First of all, apply ghee on the leaves and then heat and tie the leaves.
			Roots	stiffed muscles and pimples pimples, wounds and cut injury	Soaking the cotton with the juice of the leaves, Fry in ghee and Tied on pimples, wounds and cut injury. Decoction of root.
				Dharmatian	
Koli kanda	Urginea indica	Asparagac eae	Tuber	Rheumatism Itching, ringworm, skin disease injury and sprain	Rubbing tubers on a stone and applying it twice a day A paste made with mustard or sesame oil is heated and
				Old wound	applied on the sprain area. Make a paste of tuber with
					turmeric and oil and apply it.
Neem	Azardirachta indica	Meliaceae	Bark Leaves Bark Seed	Acne, Pimples and wound Kill the worms.	Grind the bark on a stone and make a paste and apply it. Prepare the decoction by taking equal quantity of leaves, bark and seeds powder of Neem plant and give it to the calf.
			Leaves	Increase appetite. Sprain, tonsils	Juice of fresh leaves. Heat the leaves and tie them on sprains and tonsils.
Methi	Trigonella foenum-graecum	Fabceae	Seeds	Arthritis, Diabetes Diarrhoea	Laddooes are made by mixing the seeds powder with ghee. Seeds are soaked overnight in water and in the morning they consume water and seeds.
				After delivery	Fenugreek seeds are taken with buttermilk in the morning to prevent diarrhoea. Decoction of methi and ajwain / Take equal quantity of turmeric, fenugreek and fennel powder every morning and evening with milk.
Panwar	Cassia tora	Caesalpini aceae	Seeds	Galactagogu e Reduce body heat	Seeds are mashed and soaked overnight and orally given for 2 weeks in the morning. Laddooes are made by roasting the powder of seeds in chee
Dikhna/	Pedalium murex	Pedaliace	Hole	Cure	the powder of seeds in ghee. The entire plant is immersed in
Bada Gokhru		ae	plant	dysentery	water 8-10 times. After that water is fed.
			Leaves	Leucorrhoea	The leaves are soaked overnight in water and given with sugar candy and cardamom.

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Gokhru	Tribulis terrestris	Zygophyll aceae	Seeds Plant extract	Improves health after delivery. Reduced body heat in summer Urinary stone	Laddooes are made with turmeric powder, dried ginger, seeds of ammi and kamarcus ka gond along with the powder of the seeds, which improves health after delivery. Plant extract/ seed powder is taken for 1 week.
Chirol	Holoptelea integrifolia	Ulmaceae	Leaves	Ringworm	Making a paste with garlic and applied to the ringworm area.
Aak	California procera	Asclepiad aceae	Latex Leaves	Thorn injury. jaundice	The latex is mixed with tobacco and heated and tied on a thorn injury. Paste of leaves is applied on the head.
Marod phalli/ Metha phali	Helicteres isora ki	Malvacea e	Fruits Bark Root	Torsion, Stomach pain, Diarrhoea Diabetes Asthma and cough Wound Vomiting	One teaspoon powder of Helicteres isora fruit's powder mixed in buttermilk and taken by mouth twice a day Fruit powder and juice of bark Root bark juice Bark decoction The root paste is mixed with turmeric and applied to the wound. One teaspoon powder of Helicteres isora fruit's powder mixed in honey and taken orally twice a day
Khoon rokane rukdi	Tridax Ki procumbens	Asteracea e	Leaves	wound healing, Anticoagulan t	Cotton is soaked after extracting the leaves of the leaves, after which the soaked cotton is fry in ghee and applied on the wound. Crushing the leaves and applying the juice on direct injury stops the bleeding.
Harasin har	g Nyctanthes arbir- tristis Linn.	Oleaceae	Leaves	Diabetes, Vermifuge	One teaspoonful of leaves powder is given orally with water early in the morning every day
Nagad bavri	Ocimum canum Sims.	Lamiacea e	Seeds	dissipate body heat Mosquito repellent	Seed laddooes are made to dissipate body heat. It is boiled in milk and mixed with sugar and eaten. The seeds are soaked overnight in water and taken in the morning. Hole plant/paste of leaves
Ban tuls	i Ocimum basilicum Linn.	Lamiacea e	Seeds	Urinary problem	Seeds given orally with curd
Tulsi	Ocimum sanctum Linn.	Lamiacea e	Leaves& flower Leaves	Cough & cold Mouth sorez	decoction of 4 flowe,2 leaves, jaggery and turmeric is given orally before going to bed. The leaves are chewed three times a day.

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CheelaButea monospermaFabaceaeSeedsRingwormThe powder of the seeds is nived with lemon juice and applied on the ringworm. applied on the ringworm. applied on the tawes and heat and tie them tight on the low the stem and tay.Vieta barkStem barkImportency & infertity Reduce body heat. cure body			-	-		
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Image: Solution of the sector of the secto						heat and tie them tight on the joints.
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Ucer   &   with warm milk.     Standing   Standing   Make a decoction of stem bark and gargle it.     Dikhana gokharu   Pedalium murex   Pedaliace   Leaves   Combine the juice of the roots in boiling water, filtering them.     Dikhana gokharu   Pedalium murex   Pedaliace   Leaves   Leucorrhoea   The earwes are soaked overright in water and given the banana roots in boiling water, filtering them.     Dikhana   L.   Zygophylli   Seeds   Leucorrhoea   The leaves are soaked overright in water and given with sugar candy and cardamom. The entire plant is immersed in water 8-10 times. After that water 8-10 times. After that water 8-10 times. After that water 3-10 times. After that after addooes.     Chirol   Holoptelea   Ulmaceae <td></td> <td></td> <td></td> <td></td> <td>cure back</td> <td>glue. Its powder is made and a</td>					cure back	glue. Its powder is made and a
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Image: Section of the sector					Reduce	
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Mole plantCure dysenterywith sugar cardamom.GokhruTribulis terrestrisZygophyll aceaeSeedsTo increase genital capacity stem and leavesTo increase genital 				Leaves	Leucorrhoea	
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Image: Second	Goknru	I ridulis terrestris		Seeds	genital	powder of asparagus in ghee
Seeds heat.reduce body heat.hungry stomach for 1 week. Fry seeds powder in ghee and 					satisfaction,	
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Integrifoliaapplied around the ring worm.Gugal dhoCommiphora wightiiBurserace aeStem barkAnimal abdomen painStem bark boil in water and feed the animals, which removes the poison.Bhata katereeSolanum xanthocarpumSolanacea eFruitCure Cough, vomiting, miscarriage Urinary problemOne teaspoon fruit powder / decoction of leaves taken with four to six dry grapes for 1 week.					health after	with turmeric celery,kamarcus gum, roast it in ghee and make
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Bhata kateree Solanum xanthocarpum Solanacea e Fruit Cure Cough, vomiting, miscarriage Urinary One teaspoon fruit powder / decoction of leaves taken with four to six dry grapes for 1 week.   Whole plant Problem Cure by making By making Whole plant By making					abdomen	feed the animals, which
kateree xanthocarpum e vomiting, decoction of leaves taken with miscarriage Urinary week. Whole plant Cure By making whole plant Kakodai decoction.				Latex		Latex paste - applied to pimples
Kakodai decoction.					vomiting, miscarriage Urinary problem	decoction of leaves taken with four to six dry grapes for 1 week.
				plant		decoction.

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Nak	Dregea volubilis	Asclepiad	Fruits		Arthritis, joint	Cut the beans and boil them in
chjkni		aceae			pain,	sesame oil and apply on the
			Fruits	&	Swollen	joints.
			leaves			
					Nasal	powder of leaves and fruits are
					disorders	inhaled.

### Result and discussion

Use of 35 different species of plants as ethanomedicie by the tribal and local traditional community of Sapotra, Karanpur,Mandrayal and Karauli tehsil of Karauli district, 81 diseases like stomach ache, body aches, cold, tooth pain, diarrhoea, fever, cough, Infertility, wounds, scorpions or snake bites, jaundice, boils pimples, bones join in the following way.

Whole plant as food ingredients mixed with any other food ingredients

- 1. Preparing decoction of different parts of the plant
- 2. Making root pudding / pudding of leaves
- 3. Using plant leaves as a paste oil
- 4. Mashing the leaves of the plant or extracting the juice
- 5. Boil the root and leaves of the plant with water
- 6. Use of raw fruits and legumes of the plant
- 7. Plant ashes
- 8. Plant bark
- 9. Seed use

The present study shows the importance of the plant as Ethno medicine of Karauli district, which was previously discussed by other authors on flora even when Karauli district was a part of Sawai Madhopur district.

#### Conclusion

This study shows that the tribal and other local traditional communities of Karauli district use forest products all around them for their livelihood, not only for food, wood, fodder, shade, fuel, lap, resin, but also various different parts of plants are used to cure ailment/diseases, hence proper and scientific use of flora of these rocky, rugged and far-flung/ remote areas of Karauli district.Can be done for the welfare of mankind by small scale industries. Under ethnography, medicinal plants have been used by tribal in human welfare and animal welfare.

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