

Study of the Traditional Knowledge of indigenous, wild foods and food consumption pattern of Mahadev koli & Thakar tribes of Akole Block of Ahmednagar District, Maharashtra - An Exploratory Cross-sectional Study

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ABSTRACT

BACKGROUND: From times immemorial, humans, especially Aadivasi's (tribes/indigenous people) have been dependent upon nature for survival. They have been living in harmony with nature to evolve a unique system of knowledge about plant and animal wealth for food, nutrition and medicines. The tribal communities in India are a good example of indigenous populations with a vast cultural diversity, traditions, and environments.

AIM: To explore the food environment of tribal communities – *Mahadev Kolhi* and *Thakar*, with respect to their knowledge of traditional indigenous foods, its availability /accessibility, its use and consumption pattern in Akole Tribal Block of Ahmednagar district.

METHODS: To study the knowledge about indigenous foods, and assess the range of available indigenous/wild foods and contribution of range of these indigenous/wild foods to the regular diets of Mahadev Kolhi and Thakar tribal communities in the study area. The sampling method was purposive sampling. Four FGDs per six villages was conducted during the study. Free listing exercise was carried out with the participants. Pairewise ranking was used to identify perceptions, priority settings and preferences for local indigenous food items. Documentation of commonly consumed indigenous wild food items was done.

RESULT: The finding stated that, Rice was the staple food for the Mahadv Koli and Thakar Tribes. Majority of the participants had the knowledge about the Indigenous, wild foods such as Cereal, Leafy Vegetables, Roots and Tubers, Oil Seeds, Fruits, Milk and Milk Products, Fish and Meat, Condiments and Spices. The study also stated that

wild Roots and tubers were consumed but rarely. Consumption of seasonal fruits, especially wild seasonal fruits was consumed. The availability and consumption of many variety of wild green leafy vegetable was reported in the discussion. The study also found out that Green wild vegetables are collected, gathered, dried, stored and consumed them due to food insecurity in the rainy season.

CONCLUSION: The present study was carried out for documenting and eliciting traditional knowledge about indigenous foods, its availability, utilization and preferences for commonly consumed indigenous foods to the regular diets Tribal community.

KEY WORDS: Tribal, Traditional Knowledge, Indigenous, Wild Foods, Consumption pattern.

I. INTRODUCTION

In South Africa experience a wide range of dietary consumption patterns across a myriad of cultures, and ideally a country-specific food composition database should be reflective of the country's consumption patterns. The ethno botanical survey can bring out many different clues for the development of drugs to treat human diseases. Safe, effective, and inexpensive indigenous remedies are gaining popularity equally among the people of both the urban and rural areas, especially in India and China

India is well known for its plants diversity and is rich in medicinal plant wealth. India has the second largest tribal population in the world after Africa. As per the 1991 census of India, the total tribal population is 8% of country's population of which Maharashtra has 47 scheduled tribe communities with 9.27% of the total population of the state. From ancient time plants have been used



as a source of food, shelter, clothing, medicine, fibre, gum, resin, oil, etc. Several wild plants are used as food by tribals and other local people living in and around the forest areas. It has been observed that the traditional knowledge on wild food plants is on sharp decline. Unless efforts are made to educate the younger generations about their importance, this knowledge may be lost in the near future. The tribals have good traditional knowledge about the plants and their medicinal uses. This knowledge is transmitted exclusively through oral communication from one generation to next using a script less language. The valuable knowledge is therefore, in an unwritten form and requires urgent measures of conservation. A food database is regarded as being representative and comprehensive if it houses nutrient information of foods typically eaten amongst a population.

The tribes usually live by the fringe of the river valleys in the forested hilly or upland tracts.1 Tribal economy is based on food gathering, grazing, forestry and agriculture. The land they have got is very small that cannot support family to survive. Therefore now a days the tribal, whose main occupation is agriculture, look upon forest for subsidiary occupation because traditionally livelihood pattern of trial's have undergone significant changes due to removal of forest cover, encroachment on land and water, dams, irrigation and hydra project which compel them to adopt subsistence agriculture. Due to dependency upon sedentary occupations, these people remain poor.

Indigenous plants grow spontaneously in natural ecosystems and have been serving human kind as food and medicine in almost all societies for generations. The indigenous crops have been largely ignored by commercial farming, research and development, thus becoming less competitive than well-established major crops, and losing gradually their diversity and the associated traditional knowledge. Many rural communities have access to indigenous and traditional crops that are rich in micronutrients, which are likely to serve as a long term strategy to eliminate food insecurity and contribute to nutrient requirements. Wild plants have played a significant role in the livelihood of the tribal communities as they mainly prove to be of dietary and medicinal importance.

II. METHODOLOGY

Study Design:

The study design was an Exploratory Cross Sectional, Qualitative Research Study.

Duration of study

The duration of the study was started from April 2019 and enclosed at May2020.

Study population/community:

In Ahmednagar district total 12 tribes were reported. The study population were two scheduled tribes - Mahadev Kolhi and Thakar. Who constitute nearly 48% (1.40 lakh) of the total population of Akole block. Most villages and hamlets of this Block are inhabited by Mahadev Koli & Thakar tribes. While Mahadev Koli are predominantly spread over southern and internal part of the Block, Thakar tribe lived in western most hamlets and villages surrounded by dense forests. While Mahadev Kolis - the second largest tribal race in Maharashtra are relatively economically developed, the other tribe Thakar are still in transition stage and are socio-economically very poor.

Free Listing & Focus Group Discussions

Free listing and focus group discussions (FGDs) were used to assess the knowledge about indigenous foods, and assess the range of available indigenous/wild foods and contribution of range of these indigenous/wild foods to the regular diets of Mahadev Kolhi and Thakar tribal communities in the study area. The study began with free listing exercise by collecting information and knowledge on indigenous foods, its availability and access to these wild foods in the local environment.

After free listing exerscise, four FGDs was conducted in each of the six selected villages. The ASHAs, Anganwadi Workers in the respective villages were requested to invite community members to participate in the FGDs ahead. Each FGDs had 7-9 participants (3 Women having children, 2 Adult men, 3 to 4 elderly men & women). Mothers were encouraged to participate in the FGDs because they were mainly responsible for food preparation and feeding their families, elderly men and women were invited as they have traditional & old generation knowledge of foods, adult men were invited as they were responsible to fetch the wild and traditional foods from forests by hunting. The FGDs were held in accessible areas like Anganwadi Centres/ZP Schools etc. The selected local participants identify indigenous, or wild or "desi" foods gathered from the local environment such as nearby forests (jungle), agricultural fields or bunds, gardens, or water resources such as manmade ponds, dams or even from market. The local names of plants or meat items and their characteristics such as availability, seasonality, and source were documented. The



foods identified were then categorized under various food groups based on their edible parts. Ethnographic manuscripts on the tribal population in the State were used to confirm the list of common foods.

Pairwise Ranking

Pairwise ranking was used to identify perceptions, priority setting, and preferences for local indigenous food items. After free listing exercise, the participants who participated in FGD were asked to identify 5 to 6 preferred food items within each food group; for example, cereals, vegetables, green leafy vegetables etc. These preferences were based on criteria of taste and availability of particular food items in the local area. These items were then ranked to identify the popular and commonly consumed indigenous foods under different food groups as per Standard Food Consumption Table prepared by NIN (ICMR), Govt. of India.

The food items were tabulated on a flip chart and participants were asked to compare the first food item in the row with various food items listed in the column one by one. The next step was to ask them to move on to the second food item in the row; keeping that as a constant and compare it with the third and the subsequent food items and enter the preference in the relevant grid. These steps were repeated till all the food items listed in the row were compared with the subsequent food items listed in the columns pairwise. A score was provided based on the number of times each food item selected (Narayanasamy200

Documentation of Food Categories and Data analysis

The data collected from Free listing, FGDs was documented and analysed as per the commonly consumed indigenous food items such as (1) Cereal Grains & Products, (2) Pulses and Legumes, (3) Leafy Vegetables, (4) Roots and Tubers, (5) Other Vegetables, (6) Nuts and Oil Seeds, (7) Condiments and Spices, (8) Fruits, (9) Fishes and other Aqua Foods, (10) Meat and Poultry, (11) Milk and Milk Products, (12) Fats and Edible Oils, on the bases of Standard Classification followed by National Institute of Nutrition, ICMR, Govt. of India

Sample Villages for conducting the study

Six villages were selected by Purposive sampling method to conduct the study. The study was conducted in six villages of Akole block, they were Randh, Panjare, Udadawne, Murshet, Koltembhe & Mutkhel.

Identification, Collection of Food Samples

Based on the free listing and FGDs, lists of (1) indigenous foods known to community, (2) commonly available indigenous foods in the area and (3) commonly consumed indigenous foods was prepared. A literature search was done to identify the taxonomic classification based on the common names provided by the tribal community. Attempt was made to collect samples of each indigenous food items mentioned in the FGD, available in the local area and consumed by the tribal community and photographed and documented.

Ethical consideration:

The present study was approved by the CSM Institutional Research Committee vide letter No.PIMS/CSM/IRC/2019/137/4; Dated-2019/04. All the respondents of the study were clearly explained about the purpose of the study ensuring their confidentiality before Focus Group Discussions & Cross Sectional Study and informed verbal consent was taken. Participation in the research study was voluntary and their identity was protected. Anonymity, privacy, confidentiality of the participants was maintained. Opinions, expressions of participants was respected, honestly documented & appreciated. Respondent was option for not answering any question from study. The rules of Intellectual Property Rights were followed. Permission was taken for pictures to be taken during the FGDs, Personal or identifiable information was not recorded in any reports. Informed Verbal consent was taken prior to the FGD.

III. RESULTS

Traditional diets of Mahadev Kolhi and Thakar.

The qualitative study revealed that rice was the staple food for the Mahadev koli and Thakar community. Wild green leafy vegetables which were grown in the forest of are of Bhandardara region. The women's of both community i.e. Thakar and the Mahadev koli gather the wild green leafy vegetables and consume them during rainy season. Pulses consumption was reported but it was not consumed daily. It was reported that there was large consumption of green leafy vegetables with rice. The participants differentiated between the Wild green leafy vegetables grown in the Forest and accessed from the market. Consumption of wild fruits, seasonal fruits, Wild meat, eggs, birds, etc. were also reported. The discussion continued with inquiries regarding their traditional diets and dietary changes due to the availability of packaged foods and market bought items.



		1 abio	lionCereals		
Sr.no	Name of food	Scientific Name	Family	Parts	Accessed/grown
	stuff			consumed	
1	Tur	Cajanus cajan	Fabaceae	Lentil	Market
2	Masur	Lens culinaris		Lentil	Farm/ Market
3		Macrotyloma	Fabaceae	Lentil	Farm
	Kulid	uniflorum			
4	Hulge			Lentil	Farm
5	Harbara	Cicer	Fabaceae	Lentil	Farm
6	Watana	Pisum sativum	Leguminosae.	Lentil	Market
7	Val	Lablab purpureus	Fabaceae	Lentil	Farm
8	Nachani	Eleusine coracana	Poaceae	Lentil	Farm/Market
9	Warai			Lentil	Farm
10	Sawa			Lentil	Farm
11	Chawli	Vigna unguiculata	Fabaceae	Lentil	Market

Table no1:-Cereals

Table no2:-Wild green Leafy Vegetables

Sr.no	Name of food stuff	Scientific name	Family	Parts consumed	Accessed/ Grown
1	Barki	Celosia argentea -	Amaranthaceae	Plants Leaves	Wild
2	Kurdu	Celosia Argentia	Amaranthaceae	Plants leaves	Wild
3	Khurasni	-	-	Plants leaves	Wild
4	Chila	-	-	Plants leaves	Wild
5		Calocasia antiquorum	AraceaeIt	Whole Plant	Wild/ local farm
6	Aaloo	-			Wild
7	Barda	- Arisaama murravi	- Araceae	Plants leaves	Wild
8	Loti		Alaccae	Plants leaves	Wild
9	Kawali	Smithia hirsute	Fahaceae	Plants leaves	Wild
10	Papada	-	-	Plants leaves	Wild
10	Narali	-	_	Plants leaves	Wild
12	Kombda	Celosia Argentia	Amaranthaceae	Plants leaves	Wild
13	Palandh	-	-	Plants leaves	Wild
14	Divva	-	-	Plants leaves	Wild
15	Chichurti	-	-	Plants leaves	Wild
16	Miki	-	-	Plants leaves	Wild
17	Ghaipat	Agave Americana L	Agavaceae	Plants leaves	Wild
18	Kolu	Chlorophytum borivilianum	Liliaceae	Plants leaves	Wild
19	Kaudhar	-	-	Plants leaves	Wild
20	Chakhwat	Chenopodium album	-	Plants leaves	Wild
21	Pimmali		-	Plants leaves	Wild
22	Ratala chi bhaji	Plectranthus rutuncfolius	-	Plant Leaves	Wild/ Farm
23	Jaswandi	-	-	Plants leaves/ Flowers	Wild
24	Wal	Lab lab purpureus	-	Fruits	Wild/Farm/Market
25		Amaranthus	-	Plants leaves	Wild/farm
	Rajgira	caudatus			



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26	Bhagar	-	-	Plants leaves	Wild/farm
27	Dhape	-	-	Plants leaves	Wild
28	Mohor	-	-	Plants leaves	Wild

Sr.no	Name of food stuff	Scientific name	Family	Parts consumed	Accessed/ Grown
1	Aanwa	-	-	Roots	Wild
2	Palandh	-	-	Roots	Wild
3	*Achkandh	Withania somniferaDuna	Soleaneace	Roots	Wild
4	Kaudhar	-	-	Roots	Wild
5	Diva	Arisaema murrayi (Grah.) Hook.	Araceae	Roots	Wild
6	Tamboli	-	-	Roots	Wild
7	Ambarkandh	-	-	Roots	Wild
8	Kakdi	Cucuris sativaus		Roots	Wild
9	*Vasali	Boerrhavia diffusa	Nyctaginaceae	Roots	Wild
10	Chkat	-	-	Roots	Wild
11	Kadu Kandh	Dioscorea bulbifera	Dioscorea bulbifera L.	Roots	Wild
12	Chhai kandh	-	-	Roots	Wild
13	Haindha	-	-	Roots	Wild
14	Bakli	-	-	Roots	Wild
15	Beetroot	Beta vulgaris		Roots	Wild/ Farm
16	-	Plectranthus	-	Roots	Wild
	Ratala	rutuncfolius			

Table no3:- Roots

Table no4:- Oil seeds

Sr.no	Name of food	Scientific name	Family	Parts	Accessed/ Grown
	stuff			consumed	
1	Khurasni	Hyoscyamus niger	Solanaceae	Seeds oil	Wild
2	Kardai	Carthamus tinctorius	Asteraceae	Seeds oil	Wild/ Farm
3	Rai	Brassica nigra	Brassicaceae	Seeds oil	Market
4	Soyabeen	Glycine max	Fabaceae	Seeds oil	Market
5	Coconut	Cocos nucifera	Arecaceae	Oil	Market
6	Groundnut	Arachis hypogaea	Fabaceae	Seeds oil	Market
7	Sunflower	Helianthus annuus	Asteraceae	Seeds oil	Market

Tableno5-Liquor

Sr.no	Name of	Scientific	Family	Parts	Accessed/
	food stuff	name		consumed	Grown
1		Madhuca	Sapotaceae	Fruits/Flowers	Wild
	Mahuwa	longifolia			
2		Arecaceae	Arecaceae	Fruit	Wild
	Tadi				
3	Jaggery	-	-	Sugarcane	Farm
	Alcohol			Juice	



		Table 100.	whu Fruits		
Sr.no	Name of food stuff	Scientific name	Family	Parts consumed	Accessed/ Grown
1	Mango	Mangifera indica	Anacardiaceae	Fruit	Farm
2	Jambhul	Syzygium cumini	Myrtaceae	Fruit	Farm
3	Karwandh	Carissa carandas/ conker berry	Apocynaceae	Fruit	Farm
4	Aambla	Phyllanthus emblica	Phyllanthaceae	Fruit	Farm
5	Peru	Psidium	Myrtaceae	Fruit	Farm
6	Ashindh			Fruit	Farm
7	Рарруа	Carica papaya	Caricaceae	Fruit	Farm
8	Torna	-	-	Fruit	Farm
9	Fanash	Artocarpus heterophyllus	Moraceae	Fruit	Farm

Table no6: Wild Fruits

Food Preference and Ranking of Local Foods.

Out of the foods listed, the ones commonly consumed under each food group and preferred by the community were listed through pairwise ranking. A demonstration of the outcome of pair wise ranking done through the FGDs for different food groups is given for preferred green leafy vegetables, when asked about their preferences in terms of taste, the majority chose indigenous varieties. In the study villages indigenous rice verities like Indrayani, Daptari, Rupali, Laxmi, were the most preferred varieties followed by the commonly consumed by the tribes. Among Wild Green leafy vegetables Barki, Khurasni, Kurdu, Chai, Kaudhar were preferred (Table no-19). Among Cereals, Harbara, Nachani, Val were most preferred and consumed (Table no-17). Majority of FGDs revealed that Chai cha kandh, Anava, Palandh etc. were preferred the most in Roots (Table no 18). Karvand, Ambala, and Mango were more preferred by both the communities (Table no 22).

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Cerea	Tur	Masur	Kulid	Hulge	Harba	Watan	Val	Nacha	Warai	Sawa	Bhaga	Ric	udid	Mung	Chawl
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Masur	Tur	х	Kulid	Masur	Harb ara	Masur	Val	Nacha ni	Masur	Masur	Masur	Ric e	Udid	Masur	Masur
Kulid	Kulid	Kulid	Х	Kulid	Harb ara	Kulid	Val	Nacha ni	Kulid	Kulid	Kulid	Ric e	Udid	Kulid	Kulid
Hulge	Tur	Masur	Kulid	Х	Harb ara	Watan a	Val	Nacha ni	Warai	Hulge	Hulge	Ric e	Udid	Hulge	Hulge
Harba	Harba	Harba	Harba	Harbar	v	Harba	Harba	Harba	Harba	Harba	Harba	Ric	Harba	Harba	Harba
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Watan	Tur	Masur	Kulid	Watan	Harb	x	Val	Nacha	Watan	Watan	Watan	Ric	Udid	Watan	Watan
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Val	Val	Val	Val	Val	Harb ara	Val	X	Val	Val	Wal	Val	Ric e	Val	Val	Val
Nacha	Nacha	Nacha	Nacha	Nacha	Harb	Nacha	37.1	v	Nacha	Nacha	Nacha	Ric	Nacha	Nacha	Nacha
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Warai	Tur	Masur	Kulid	Warai	Harb ara	Watan a	Val	Nacha ni	Х	Warai	Warai	Ric e	Udid	Warai	Warai
Sawa	Tur	Masur	Kulid	Hulge	Harb	Watan	Val	Nacha	Warai	Х	Sawa	Ric	Udid	Sawa	Sawa

PAIRE WISE RANKING



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Bhaga	Tur	Masur	Kulid	Hulge	Harb	Watan	Val	Nacha	Warai	Sawa	x	Ric	Udid	Mung	Bhaga
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Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Х	Rice	Rice	Rice
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Uulu	Uulu	Uulu	Uulu	Uulu	ara	Uulu	v ai	ni	Uulu	Uulu	Uulu	e	Λ	Uulu	Uulu
Mung	Tur	Magur	Kulid	Hulgo	Harb	Watan	Val	Nacha	Warai	Sowo	Bhaga	Ric	Udid	v	Muna
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Chawl	Tur	Magur	Kulid	Hulao	Harb	Watan	Val	Nacha	Warai	CONVO	Bhaga	Ric	Udid	Muna	v
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 Table No. 10:- Wild green Leafy Vegetables

Wil d gre en Le afy Ve get abl es	B ar ki	K ur u	Kh ura sni	Ch ila	A al o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	Di vy a	Ch ich urt i	Mi ki	Gh aip at	Ko lu	Ka ud har	Ch ak hw at	Pi m ma li	Ra tal a	Jas wa ndi	W al	Raj gir a	Bh aga r	Dh ap e	Mo hor
Bar ki	X	K ur d u	Ba rki	Ba rki	B ar ki	C h ai	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki	Ba rki
Kur du	K ur d u	X	Ku rd u	Ku rd u	K ur d u	K ur d u	Ku rd u	Ku rd u	K ur du	Ku rd u	Ku rd u	K ur du	Ku rd u	Ku rd u	Ku rd u	Ku rdu	Ku rd u	Ku rd u	Ku rd u	Ku rdu	Ku rdu	Ku rd u	Ku rdu	Ku rd u	Ku rdu	Ku rdu	Ku rd u	Ku rdu
Kh ura sni	B ar ki	K ur d u	X	Kh ura sni	A al o o	C h ai	Kh ur as ni	Kh ura sni	Ka wa li	Kh ura sni	Kh ura sni	K o m bd a	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ur as ni	Kh ura sni	Kh ura sni	Kh ura sni	Kh ura sni
Chi la	B ar ki	K ur d u	Kh ura sni	x	A al o o	C hi la	Ch ila	Ch ila	Ka wa li	Ch ila	Ch ila	K o m bd a	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila	Ch ila
Aal oo	B ar ki	K ur d u	Aa loo	Aa loo	X	C h ai	Aa lo o	Aa loo	Aa lo o	Aa loo	Aa loo	K o m bd a	Aa loo	Aa loo	Aa loo	Aa loo	Aa loo	Aa loo	Aa loo	Aa loo	Aa loo	Aa loo	Aa loo	Aa lo o	Aa loo	Aa loo	Aa loo	Aa loo
Ch ai	C h ai	K ur d u	Ch ai	Ch ai	C h ai	x	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai	Ch ai
Bar da	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	X	Ba rda	Ka wa li	Ba rda	Ba rda	K o m bd a	Ba rda	Ba rda	Ba rda	Ba rda	Ba rda	Ba rda	Ba rda	Ba rda	Ba rda	Ba rda	Ba rda	Ba rd a	Ba rda	Ba rda	Ba rda	Ba rda
Lot	В	K	Kh	Ch	A	С	Ba	Х	Ka	Lo	Na	K	Lo	Lo	Ch	Lot	Gh	Lo	ka	Lot	Lot	Ra	Lot	W	Lot	Lot	Lo	Lot



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Ka wal i	B ar ki	K ur d	Ka wa li	Ka wa li	A al o	C h ai	Ka wa li	Ka wa li	X	Ka wa li	Ka wa li	a K o m bd	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li	Ka wa li
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Nar ali	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Na ral i	Ka wa li	Na ral i	x	K O m bd a	Na ral i	Na ral i	Ch ich urt i	Na rali	Gh aip at	Na ral i	ka ud har	Na rali	Na rali	Na ral i	Na rali	W al	Na rali	Na rali	Na ral i	Na rali
Ko mb da	B ar ki	K ur d u	Ko mb da	Ko mb da	A al o o	C h ai	Ko m bd a	Ko mb da	K o m bd a	Ko mb da	Ko mb da	x	Ko mb da	Ko mb da	Ko mb da	Ko mb da	Ko mb da	Ko mb da	Ko mb da	Ko mb da	Ko mb da	Ko mb da	Ko mb da	Ko m bd a	Ko mb da	Ko mb da	Ko mb da	Ko mb da
Pal and h	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	X	Pal an dh	Ch ich urt i	Pal an dh	Gh aip at	Pal an dh	ka ud har	Pal an dh	Pal an dh	Ra tal a	Pal an dh	W al	Pal an dh	Pal an dh	Dh ap e	Pal an dh
Div ya	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	X	Ch ich urt i	Di vy a	Gh aip at	Ko lu	Ka ud har	Di vy a	Di vy a	Ra tal a	Jas wa ndi	W al	Di vy a	Di vy a	Dh ap e	Di vy a
Chi chu rti	B ar ki	K ur d u	Kh ura sni i	Ch ila	A al o o	C h ai	Ba rd a	Ch ich urt i	Ka wa li	Ch ich urt i	Ch ich urt i	K o m bd a	Ch ich urt i	Ch ich urt i	X	Ch ich urti	Ch ich urt i	Ch ich urt i	Ch ich urt i	Ch ich urti	Ch ich urti	Ch ich urt i	Ch ich urti	W al	Ch ich urti	Ch ich urti	Ch ich urt i	Ch ich urti
Mi ki	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	Di vy a	Ch ich urt i	x	Gh aip at	Ko lu	Ka ud har	Ch ak hw at	Pi m ma li	Ra tal a	Jas wa ndi	W al	Raj gir a	Bh aga r	Dh ap e	Mo hor
Gh aip at	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Gh aip at	Ka wa li	Gh aip at	Gh aip at	K o m bd a	Gh aip at	Gh aip at	Ch ich urt i	Gh aip at	X	Gh aip at	Ka ud har	Gh aip at	Gh aip at	Gh aip at	Gh aip at	W al	Gh aip at	Gh aip at	Gh aip at	Gh aip at
Kol u	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Ko lu	Na ral i	K o m bd a	Ko lu	Ko lu	Ch ich urt i	Ko lu	Gh aip at	X	Ko lu	Ko lu	Pi m ma li	Ko lu	Jas wa ndi	Ko lu	Ko lu	Bh aga r	Ko lu	Ko lu
Ka	В	K	Ka	Ch	А	С	Ba	Ka	Ka	Ka	Ka	K	Ka	Ka	Ch	Ka	Ka	Ka	Х	Ka	Ka	Ka	Ka	W	Ka	Ka	Ka	Ka



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udh ar	ar ki	ur d u	ud har	ila	al o o	h ai	rd a	ud har	wa li	ud har	ud har	o m bd a	ud har	ud har	ich urt i	ud har	ud har	ud har		ud har	ud har	ud har	ud har	al	ud har	ud har	ud har	ud har
Ch akh wat	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	Di vy a	Ch ich urt i	Ch ak hw at	Gh aip at	Ko lu	ka ud har	x	Ch ak hw at	Ra tal a	Ch ak hw at	W al	Ch ak hw at	Ch ak hw at	Dh ap e	Ch ak hw at
Pi mm ali	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	Di vy a	Ch ich urt i	Pi m ma li	Gh aip at	Ko lu	ka ud har	Ch ak hw at	X	Ra tal a	Jas wa ndi	W al	Raj gir a	Pi m ma li	Dh ap e	Mo hor
Rat ala chi bha ji	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Ra tal a	Ka wa li	Ra tal a	Na ral i	K o m bd a	Ra tal a	Ra tal a	Ch ich urt i	Rat ala	Gh aip at	Ra tal a	ka ud har	Rat ala	Rat ala	X	Rat ala	W al	Rat ala	Rat ala	Ra tal a	Rat ala
Jas wa ndi	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	Di vy a	Ch ich urt i	Jas wa ndi	Gh aip at	Ko lu	ka ud har	Jas wa ndi	Jas wa ndi	Ra tal a	X	W al	Jas wa ndi	Jas wa ndi	Dh ap e	Jas wa ndi
Wa 1	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	W al	Ka wa li	W al	W al	K o m bd a	W al	W al	W al	Wa 1	W al	W al	W al	Wa 1	Wa 1	W al	Wa 1	X	Wa 1	Wa 1	W al	Wa 1
Raj gira	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	Di vy a	Ch ich urt i	Raj gir a	Gh aip at	Ko lu	Ka ud har	Ch ak hw at	Pi m ma li	Ra tal a	Jas wa ndi	W al	X	Bh aga r	Dh ap e	Mo hor
Bh aga r	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	Di vy a	Ch ich urt i	Mi ki	Gh aip at	Ko lu	Ka ud har	Ch ak hw at	Pi m ma li	Ra tal a	Jas wa ndi	W al	Raj gir a	X	Dh ap e	Mo hor
Dh ape	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Dh ap e	Na ral i	K o m bd a	Dh ap e	Dh ap e	Ch ich urt i	Dh ape	Gh aip at	Dh ap e	Ka ud har	Dh ape	Dh ape	Ra tal a	Dh ape	W al	Dh ape	Dh ape	x	Dh ape
Mo hor	B ar ki	K ur d u	Kh ura sni	Ch ila	A al o o	C h ai	Ba rd a	Lo ti	Ka wa li	Pa pd a	Na ral i	K o m bd a	Pal an dh	Di vy a	Ch ich urt i	Mo hor	Gh aip at	Ko lu	Ka ud har	Ch ak hw at	Pi m ma li	Ra tal a	Jas wa ndi	W al	Raj gir a	Mo hor	Dh ap e	X



Roots	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Tambo li	Ambar kandh	Kakdi	Vasali	Chk at	Kad u Kan dh	Ch hai ka nd h	Haind ha	Bakli	Beetro ot	Ratala
Aanwa	X	Pala ndh	Aan wa	Kau dhar	Di va	Aanwa	Aanwa	Aanwa	Aanwa	Aan wa	Aan wa	Ch hai ka nd h	Aanwa	Aanwa	Aanwa	Aanwa
Paland h	Pala ndh	x	Palan dh	Pala ndh	Di va	Paland h	Paland h	Paland h	Paland h	Pala ndh	Pala ndh	Ch hai ka nd h	Paland h	Paland h	Paland h	Paland h
Achka ndh	Aan wa	Pala ndh	Х	Kau dhar	Di va	Achka ndh	Achka ndh	Achka ndh	Achka ndh	Chk at	Kad u Kan dh	Ch hai ka nd h	Achka ndh	Achka ndh	Achka ndh	Achka ndh
Kaudh ar	Aan wa	Pala ndh	Kaud har	X	Di va	Kaudh ar	Kaudh ar	Kaudh ar	Kaudh ar	Kau dhar	Kau dhar	Ch hai ka nd h	Kaudh ar	Kaudh ar	Kaudh ar	Kaudh ar
Diva	Div a	Div a	Diva	Div a	X	Diva	Diva	Diva	Diva	Div a	Div a	Ch hai ka nd h	Diva	Diva	Diva	Diva
Tambo li	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Х	Ambar kandh	Tambo li	Tambo li	Chk at	Kad u Kan dh	Ch hai ka nd h	Tambo li	Tambo li	Tambo li	
Ambar kandh	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Ambar kandh	X	Ambar kandh	Ambar kandh	Chk at	Kad u Kan dh	Ch hai ka nd h	Ambar kandh	Ambar kandh	Ambar kandh	Ambar kandh
Kakdi	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Tambo li	Ambar kandh	X	Vasali	Chk at	Kad u Kan dh	Ch hai ka nd h	Kakdi	Kakdi	Kakdi	Ratala
Vasali	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Tambo li	Ambar kandh	Vasali	X	Chk at	Kad u Kan dh	Ch hai ka nd h	Vasali	Vasali	Vasali	Ratala
Chkat	Aan wa	Pala ndh	Chka t	Kau dhar	Di va	Chkat	Chkat	Chkat	Chkat	X	Kad u Kan dh	Ch hai ka nd	Chkat	Chkat	Chkat	Chkat

Table No. 11:- Roots



												h				
Kadu Kandh			Kadu Kand h			Kadu Kandh	Kadu Kandh	Kadu Kandh	Kadu Kandh	Kad u Kan dh	X	Ch hai ka nd h	Kadu Kandh	Kadu Kandh	Kadu Kandh	Kadu Kandh
Chhai kandh	Chh ai kan dh	Chh ai kan dh	Chha i kand h	Chh ai kan dh	Ch hai ka nd h	Chhai kandh	Chhai kandh	Chhai kandh	Chhai kandh	Chh ai kan dh	Chh ai kan dh	X	Chhai kandh	Chhai kandh	Chhai kandh	Chhai kandh
Haind ha	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Tambo li	Ambar kandh	Haind ha	Vasali	Chk at	Kad u Kan dh	Ch hai ka nd h	Х	Haind ha	Haind ha	Ratala
Bakli	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Tambo li	Ambar kandh	Kakdi	Vasali	Chk at	Kad u Kan dh	Ch hai ka nd h	Haind ha	Х	Beetro ot	Ratala
Beetro ot	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Tambo li	Ambar kandh	Kakdi	Vasali	Chk at	Kad u Kan dh	Ch hai ka nd h	Haind ha	Beetro ot	X	Ratala
Ratala	Aan wa	Pala ndh	Achk andh	Kau dhar	Di va	Ratala	Ambar kandh	Ratala	Ratala	Chk at	Kad u Kan dh	Ch hai ka nd h	Ratala	Ratala	Ratala	Х

Table No. 12:- Oil seeds

Oil seeds	Khurasni	Kardai	Rai	Soyabeen	Coconut	Groundnut	Sunflower
Khurasni	X	Khurasni	Khurasni	Khurasni	Khurasni	Khurasni	Khurasni
Kardai	Khurasni	Х	Kardai	Soyabeen	Kardai	Groundnut	Sunflower
Rai	Khurasni	Kardai	X	Soyabeen	Rai	Groundnut	Sunflower
Soyabeen	Khurasni	Soyabeen	Rai	Х	Soyabeen	Groundnut	Sunflower
Ccoconut	Khurasni	Kardai	Rai	Soyabeen	X	Groundnut	Groundnut
Groundnut	Khurasni	Groundnut	Groundnut	Groundnut	Coconut	Х	Groundnut
Sunflower	Khurasni	Sunflower	Sunflower	Sunflower	Sunflower	Groundnut	Х

Table	No.	13:-	Liq	uor	

Liquor	Mahuwa	Tadi	Jaggery Alcohol
Mahuwa	Х	Mahuwa	Mahuwa
Tadi	Mahuwa	Х	Jaggery Alcohol
Jaggery Alcohol	Mahuwa	Jaggery Alcohol	Х

Table No. 14:- Wild Fruits

Wild Fruits	Mango	Jambhul	Karwandh	Aambla	Peru	Ashindh	Рарруа	Torna	Fanash
Mango	Х	Mango	Karwandh	Aambla	Mango	Mango	Mango	Mango	Mango
Jambhul	Mango	Х	Karwandh	Aambla	Jambhul	Jambhul	Jambhul	Jambhul	Jambhul
Karwandh	Karwandh	Karwandh	Х	Karwandh	Karwandh	Karwandh	Karwandh	Karwandh	Karwandh
Aambla	Aambla	Aambla	Karwandh	Х	Aambla	Aambla	Aambla	Aambla	Aambla



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Peru	Mango	Jambhul	Karwandh	Aambla	Х	Peru	Peru	Torna	Peru
Ashindh	Mango	Jambhul	Karwandh	Aambla	Peru	Х	Pappya	Torna	Fanash
Pappya	Mango	Jambhul	Karwandh	Aambla	Peru	Pappya	Х	Torna	Pappya
Torna	Mango	Jambhul	Karwandh	Aambla	Torna	Torna	Torna	Х	Torna
Fanash	Mango	Jambhul	Karwandh	Aambla	Peru	Fanash	Рарруа	Torna	Х

	Table No. 15:- Meat											
Meat	Goats meat	Fish	Chicken	Eggs	Squirrel	Wild Pig	Wild Hen	Rabbits	Crabs	Birds	Duck	Sheep
Goats	Х	Fish	Chicken	Eggs	Goats	Goats						
meat					meat	meat						
Fish	Fish	X	Fish	Fish	Fish	Fish	Fish	Fish	Fish	Fish	Fish	Fish
chicken	Chicken	Fish	Х	chicken	chicken	Chicken	Chicken	chicken	chicken	chicken	chicken	Chicken
Eggs	Eggs	Fish	Chicken	Х	Eggs	Eggs						
Squirrel	Goats meat	Fish	Chicken	Eggs	X	Wild Pig	Wild Hen	Squirrel	Crabs	Birds	Squirrel	Sheep
Wild Pig	Goats meat	Fish	Chicken	Eggs	Wild Pig	Х	Wild Hen	Wild Pig	Wild Pig	Wild Pig	Wild Pig	Sheep
Wild Hen	Goats meat	Fish	Chicken	Eggs	Wild Hen	Wild Hen	Х	Wild Pig	Wild Hen	Wild Hen	Wild Hen	Sheep
Rabbits	Goats meat	Fish	Chicken	Eggs	Rabbits	Wild Pig	Wild Hen	Х	Crabs	Birds	Rabbits	Sheep
Crabs	Goats meat	Fish	Chicken	Eggs	Crabs	Crabs	Wild Hen	Crabs	Х	Crabs	Crabs	Sheep
Birds	Goats meat	Fish	Chicken	Eggs	Birds	Birds	Wild Hen	Birds	Crabs	Х	Birds	Sheep
Duck	Goats meat	Fish	Chicken	Eggs	Squirrel	Wild Pig	Wild Hen	Rabbits	Crabs	Birds	х	Sheep
Sheep	Goats meat	Fish	Chicken	Eggs	Sheep	X						

Table No. 16:- Dairy Products

Dairy Products	Milk	Tak	Ghee	Loni	Paneer	Khawa
Milk	X	Tak	Milk	Milk	Milk	Milk
Tak	Tak	Х	Tak	Tak	Tak	Tak
Ghee	Milk	Tak	Х	Ghee	Ghee	Ghee
Loni	Milk	Tak	Ghee	Х	Loni	Khawa
Paneer	Milk	Tak	Ghee	Loni	X	Paneer
Khawa	Milk	Tak	Ghee	Khawa	Khawa	Х

Medicinal Uses of Indigenous Plants

Indigenous plants were identified by the participants for medicinal use. In the FGDs many participants had a perception that because of the colure of fruits it increased the blood and increase in good health.

Amla (Phyllanthus emblica) was used to treat thediarrhoea and dysentery. Participants in the FGDs mentioned that amla was used to treat hair fall. Amla was consumed as the immunity booster as it gives energy to do daily work. The leaves of the Amla tree were also consumed in the rainy seasons. Drying the leaves and later used for consumption. Karwand (Carissa carandas) was commonly grown fruit in the area. Karwand is most commonly grown on the mountains during the rainy season. It is consumed by the participants to boost energy. Due to its red rich colure it increases the blood (Haemoglobin level) in the body. Adults and women's go around for fetching food with the other wild leafy vegatbles the Karwand is also consumed.

Mahuwa (Madhuca longifolia) Mahuwa tree has many medicinal properties; it is grown in the month of March. The bark of Mahuwa tree was used for rheumatism, chronic bronchitis,



and bleeding. Mahua leaves were used as a medicine for rheumatism and haemorrhoids.

Papaya (Carica papaya) fruit and leaves were used to treat conditions like constipation and amenorrhoea. Seeds of the papaya fruits were used to treat menstruation related problems specially amenorrhoea. Jambhul (Syzygium Cumini)The participants in the FGD stated that Jambhul fruit is very good to remove body weakness and treat anaemia. Many of the Participants also stated that boiling the bark of Jambhul tree in water till the water thickenes than Cooling the mixture and applying the watery paste on the affected part to relieve pain and inflammation.

Sr.no	Cereals	Votes
1	Tur	16
2	Masur	14
3	Kulid	18
4	Hulge	8
5	Harbara	26
6	Watana	12
7	Val	23
8	Nachani	22
9	Warai	10
10	Sawa	6
11	Bhagar	5
12	Rice	28
13	Udid	20
14	Mung	3
15	Chawli	0

OUTCOME OF PAIRWISE RANKING Table No. 17:- Cereals

Table No. 18:- Roots

Sr.no	Roots	Votes
1	Aanwa	22
2	Palandh	22
3	Achkandh	16
4	Kaudhar	20
5	Diva	27
6	Tamboli	4
7	Ambarkandh	14
8	Kakdi	5
9	Vasali	8
10	Chkat	18
11	Kadu Kandh	20
12	Chhai kandh	30
13	Haindha	5
14	Bakli	0
15	Beetroot	2
16	Ratala	9



Sr.no	Wild Green Leafy Vegetables	Votes
1	Barki	50
2	Kurdu	54
3	Khurasni	55
4	Chila	41
5	Aaloo	47
6	Chai	51
7	Barda	38
8	Loti	25
9	Kawali	44
10	Papada	7
11	Narali	28
12	Kombda	47
13	Palandh	45
14	Divya	13
15	Chichurti	34
16	Miki	1
17	Ghaipat	30
18	Kolu	19
19	Kaudhar	56
20	Chakhwat	11
21	Pimmali	7
22	Ratala chi bhaji	24
23	Jaswandi	13
24	Wal	32
25	Rajgira	5
26	Bhagar	8
27	Dhape	21
28	Mohor	6

Table No. 19:- Wild Green leafy Vegetables



Sr.no	Oil seeds	Votes
1	Khurasni	12
2	Kardai	4
3	Rai	3
4	Soyabeen	5
5	Coconut	1
6	Groundnut	10
7	Sunflower	7

Table No. 21:- Liquor

Sr.no	Liquor	Votes
1	Mahuwa	4
2	Tadi	0
3	Jaggery Alcohol	2

Table No. 22:- Wild fruits		
Sr.no	Wild Fruits	Votes
1	Mango	12
2	Jambhul	10
3	Karwandh	16
4	Aambla	14
5	Peru	6
6	Ashindh	0
7	Рарруа	4
8	Torna	8
9	Fanash	2

Table No. 23:- Meat	

Sr.no	Meat	Votes
1	Goats meat	16
2	Fish	22
3	Chicken	20
4	Eggs	18
5	Squirrel	3
6	Wild Pig	9
7	Wild Hen	11
8	Rabbits	3
9	Crabs	9
10	Birds	7
11	Duck	0
12	Sheep	14

Table No. 24:- Sweets

Sr.no	Sweets	Votes
1	Jaggery	0
2	Suger	8

Table No. 25:- Whole Spices

Sr.no	Whole spices	Votes
1	Curry Leaves	4



Sr.no	Milk & Dairy Product	Votes
1	Milk	8
2	Tak	10
3	Ghee	6
4	Loni	2
5	Paneer	1
6	Khawa	3

Table No. 26:- Milk and Dairy

COMMONLY CONSUMED WILD GREEN LEAFY VEGETABLES



Common name- Val



Common name- Aaloo



Common name- Mohori chi Bhaji



Common name- Chirchurti





Common name- Torna

IV. ISCUSSION

The present study has wide variety of Indigenous, wild food and food consumption pattern by the Mahadev Koli and Thakar tribes of the Akole block, especially more of the wild green leafy vegetables, fruits, wild meat, etc. comes from the natural local environment. The Mahadev Koli and Thakar tribes has tremendous knowledge about their local wild foods and there ecosystem. The tribes are well known to their environment: especially the old age people have the knowledge and the process of storage of the wild foods. The study also stated that there is lack of knowledge about the wild foods, Indigenous foods and the food consumption pattern in the young age groups. Some of the indigenous foods identified in the study also reportedly had medicinal properties which were known to the local community based on practical knowledge and traditional wisdom. The local communities also employ many conservation strategies to maintain these food resources. Support and advocacy for their increased consumption can be an important supplementary strategy to improve nutritional status within this tribal group. The Rathore M; The Vartak VD and Ghate VS studies showed that the Tribal people fully depend for bread and butter upon the natural resources. The wild food plants play an important role in the dietary pattern. The Indigenous, wild foods, roots fruits, legumes, etc. contains rich Micronutrients^{5,30}.

In the Sinha R, Lakra study the tribal women and men go in search of these wild foods that are available in their local environment. Varity of Indigenous wild food, fruits, roots were collected, dried and stored before the rainy season because during the rainy seasons there is heavy rainfall in the Hilly area of Akole block so people



Common name- Jambhul

cannot go out for their food. Tribes inhabited in the hilly areas do the same⁸. Rice is the main staple food of the Tribes in inhabited in the Akole block (Rice named Indrayani, Daptari, Laxmi, Rupali, Poonam, etc.) Variety of Rice's is grown in the Tribale area ⁷. Vartak V, Kulkarni D; Kulkarni D, Agte V, Kumbhojkar M. in study found out that the tribes completely depend upon the Natural ecosystem for food. The wild edible plants are resources of fats, proteins, rich source of micro-nutrients and trace elements^{24,25.} Traditional knowledge is existing from long association with nature. Now days their living and consumption pattern has been changed and these valuable food resources becoming rare and extinct due to overexploitation. The scope of these foods to provide a nutrient rich diet by virtue of their diversity is considered important for maintaining a holistic health status through natural means. The propagation of the consumption of these foods provides a buffer against the increasing displacement of traditional dietary patterns by marketed, processed foods. The Mahadev koli and Thakar tribes thus presented a rich and ready source of indigenous plants that were used for maintaining good health and treating illnesses.

The present study found out 28 species of wild green leafy vegetables, 16 species of roots and tubers, 7 species of oil seeds, 9 species of wild fruits, 12 types of meat and meat products, 3 types of alcohol consumption by men in the 2 tribes i.e. Mahadev koli and Thakar tribes. There is a need to create awareness about the nutritional quality of these indigenous foods and effectively package the message with promotion of indigenous foods through nutrition education.

V. CONCLUSION



The present study was carried out for documenting and eliciting traditional knowledge about indigenous foods, its availability, utilization preferences consumed and for commonly indigenous foods to the regular diets of Tribal community. The study found out that there is knowledge about the Indigenous, wild foods more in elderly men & women and less in young adults living in the tribal area. The availability of the indigenous foods is seasonal and rare, hence the consumptions of the indigenous wild foods are seasonally; especially the tribes inhibited in the Hilly area of Akole block collect, gather, dry and store all the vegetables, roots, tubers in the month of March .i.e. prior to Rainy season. There is no special need of cultivation of the wild green leafy vegetables, Roots, tubers etc. All the other foods like fruits green leafy vegetables, Meat, are available on the market days, except some wild green leafy vegetables and fruits are available seasonable. The community was well aware of the indigenous food resources in their local environment. These Indigenous foods that was adapted to the local ecosystem and do not need any special inputs for their cultivation.

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