

ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016

Exploration and documentation of some wild edible plants used by the aboriginals from Gadchiroli District (M.S.) India

A. V. Setiya¹, S. D. Narkhede², N. M. Dongarwar³

Department of Botany, Government Science College, Gadchiroli (M.S.) 1,2 Department of Botany, RTM Nagpur University, Nagpur (M.S.) ³

Abstract: The present study deals with the exploration, identification, documentation and ethnobotanical aspects with respect to food value of wild edible plants consumed by aboriginals from Gadchiroli District of Maharashtra State-India. The Forest adjoin is of dry deciduous to moist deciduous type. The prominent tribes in Gadchiroli District are Raj Gond, Gond, Madia, Pardhan and Kanwar, etc. and other than these tribes the large population is scheduled caste and other backward cast and nomadic tribes which are dwelling on this land since ancient time and no such investigation has been undertaken in this District. Investigation results in 61 plant species of 40 families consumed as food during various situations.

Keywords: Gadchiroli, Wild edibles, Tribal, Aboriginal, Ethnobotany, Indigenous knowledge.

INTRODUCTION

beginning, the Human beings were arborous, huntergatherers and they could eat only what was available there in the nearby areas like some fruits and probably some vegetables. But during the race of Civilization, human started domestication and farming so turned their attention towards the cultivated species but still large number of population in rural areas have depended on the wild varieties of plants. Especially the tribal people used these to fulfill their food requirement from the adjoining forest. The forests provide a large number of edible varieties of Gadchiroli District (Figure 1) is located on the Northplants to the human beings; even today aboriginals are dependent on wild edibles. They prefer wild vegetables over the cultivated as they grow naturally; provide better taste and good health. By selling these wild edible to the nearby urban markets could earn them extra income. Aboriginals believed that some of the seasonal wild vegetables are good for health and also provide the immunity during the rains which is supposed to be the most suspicious period to become ill by various disorders. These vegetables are nutritious, delicious and cheap as well. Along with this many of the people get temporary employment by collecting these vegetables and selling it to the nearby towns and the urban area. Use of wild plants as a food source is an integral part of the culture of indigenous people that dwell in the remote forest areas. FAO reported that wild food is a part of rural people diet many small river and rivulets flowing from the Eastern not only during periods of food shortage but also on a daily basis, and the daily consumption of wild products contributes to overall nutritional well beings of tribes^{1,2}. The nutritional value of traditional leafy vegetables is

Since the ancient time Mother Nature is the ultimate higher than several conventional vegetables. They also caretaker of human beings and she has blessed human contain antioxidants which offer protection against many beings with all the necessary food requirements. In the chronic diseases like heart disease and the certain type of cancers. The potential of traditional vegetables may help to meet the increasing demands of the growing population. Increased use of traditional vegetables can contribute to enhancing people's health and standard living as well as the economic and social status of the food producers themselves³.

STUDY AREA

Eastern side of Maharashtra State and lies between 18° 43' and 21° 50' North latitude, and 79° 45' and 80° 53' East longitude in Deccan Plateau, covered by beautiful forest and hilly area (Chiroli and Surjagad hill ranges). 78% of the area is covered by forest and it is of dry and moist deciduous type. Since the ancient times, the land is inhabited by tribal community. This land is far away from urbanization. Agriculture is the backbone of the economy in District.

Excluding 4-5 medium scale industries, no big industrial set up is there in the District and that's why away from industrial pollution too. The District is also blessed with many beautiful rivers out them most are annual flowing. Waingangā is the main river of Gadchiroli District which confirms the Western Southern boundary of District and and Northern side of District merges in Waingangā. The District is neighbored by two States Chhattisgarh and Telangana State (Previously Andhra Pradesh) (Gadchiroli District Gazetteer).



ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016

EARLIER WORK

Jain⁴ in 1963, Jain and Sinha⁵ in 1988 reported various food resources from Indian aborigines. Documentation of wild edibles from various tribes in India has regularly been carried out through various remarkable efforts like Uniyal Rajasab and Mamamad⁸ in North Karnataka; Nene⁹ in using relevant scientific literature^{27, 28,29,30,31}. 2004, Sinha and Valeria¹⁰ in Orissa; Dangwal et al.¹¹ in Jammu & Kashmir; Bandyopadhyay and Mukharjee 12 in Koch Bihar District, West Bengal;. Satyavani et al. 13 in North – Coastal Andhra Pradesh and so many in many parts of India.

Also several workers like Kulkarni¹⁴, Bhogaonkar et al.¹⁵, Deshmukh and Shinde¹⁶, Jadhav et al.¹⁷, Deshmukh and Waghmode¹⁸, Reddy¹⁹, Dhore et al.²⁰, Deshpande and Kulkarni²¹, Vijigiri et al.²², Satpute²³, Oak et al.²⁴, etc have explored and documented various wild edibles throughout various regions of Maharashtra State. And recently Patle et al.25 have investigated ethnobotanical studies on wild edible plant among the Gond, Halba and Kawar tribes of Salekasa taluka in Vidarbha's Gondia District of Maharashtra State and recorded 80 plant species from monocot and dicots.



Figure 1- Gadchiroli District Location.

METHODOLOGY

The Ethnobotanical investigations were undertaken in the study area with respect to study the wild edible plants during 2013 – 2015. Different parts of Gadchiroli District were frequently visited including Northernmost Korchi Tahsil to Southernmost Sironcha Tahsil to Easternmost Bhamragad Tahsil to Westernmost Chamorshi Tahsil including extreme terrain like Binagunda which is highly threatened Naxal prone area, and information on indigenous knowledge about wild edible plants was collected from knowledgeable people in the region.

Data was collected using semi-structured questionnaire and group discussions based on the standard procedures suggested by Jain (1989), similarly adjoining forest were also scanned for the presence of particular plants and locality as well as for the status of observation. The Detailed information regarding the plant part eaten and et al.6 in Western Himalaya; Kar7 in Arunachal Pradesh; various preparation was noted. Plants were identified

OBSERVATIONS

The recorded plants are arranged in a tabulated manner (Table-1). They are arranged in alphabetical order genera wise with information as local names, botanical name and family, habit, plant part used, the method of consumption, the season of availability and its commercial status.

RESULT

The recorded plants belong to 61 plant species from 40 families, out of which 32 are dicotyledonous and 8 are monocotyledonous. Their habit wise analysis indicates the dominance of trees (36%) in feeding the aboriginal population (Figure 2) and fruits of 24 and leaves of 18 plant species as most preferred edible plant parts (Figure-3).

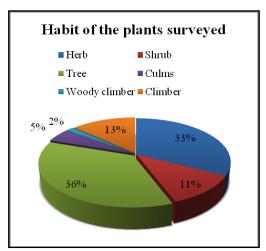


Figure 2- Habit of the plants surveyed.

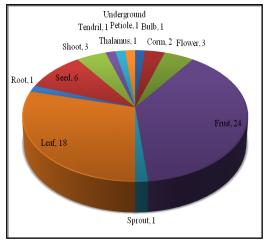


Figure 3- Edible plant parts of surveyed plants.



ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016



Photo plate I : a. Fruits of *Dillenia pentagyna* Roxb. b. Collected leafy vegetable of *Glinus oppositifolious* (L.) A. DC. c. Ripened fruits of *Flacourtia indica* (Burm. f.) Merr. d. Collected dried fleshy flowers of *Madhuca longifolia* (Koen.) Mac Bride e. Ripened edible fruit of *Tamilnadia uliginosa* (Retz.) Tirveng. & Sastre f. Collected leafy vegetable of *Allmania nodiflora* (L.) R. Br. ex Wight.



ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016











Photo plate II: a. Collected edible rhizomes of *Cheilocostus speciosus* (J.Koenig) C.D. Specht b. Youngman selling Fruits of Borassus flabellifer L. in nearby markets c. Tribal man with collected edible ripened fruits of Phoenix sylvestris (L.) Roxb. d. Old man selling young shoots of Smilax zeylanica L. in nearby urban markets e. Tribal woman selling boiled edible sprouts of Borassus flabellifer L. in nearby markets.

DISCUSSIONS

conventional agriculture the wild edibles were the only source of food and as the modern day food fashion unaffected and the result is so that their younger generations are having very less knowledge about these plants. So it is of the immense need to document the indigenous knowledge of wild edibles among the old age aboriginal population. This is the first of its kind of 1. attempt in the study area as the area is Naxal-affected and extreme terrain of forest, so difficult to reach the interior land of it. But this was a dared attempt and fortunately, safely the studies went right. Also, the nutraceutical 3. evaluation of these wild edible is also needed, similarly a study can be undertaken to explore the commercial use of these fruits and vegetable.

ACKNOWLEDGEMENTS

Authors are thankful to Dr. A.G. Deshmukh (Former Principal) & Dr. J.M. Khobragade, Principal, Government During famine and before the regularization of Science College, Gadchiroli (M.S.) for providing necessary facilities for this work, the informants who open-heartedly shared their knowledge with us, Mr. Nitin expanded not even the deep tribal packets were remain Hemke, Range Officer, Dhanora forest range, Dist. Gadchiroli, Mr. Parag Tembhurne, Gadchiroli as accompanying person during the field visits.

REFERENCE

- Anonymous, Forestry and nutrition: a reference manual, forests, trees and people, Swedish International Development Authority and FAO. Rome, (1989) 30-32.
- Kar A & Borthakur SK, Wild vegetables of Karbi Anglong District, Assam, Natural Product Radiance, 7(5) (2008) 448-460.
- Sasi R, Rajendran A & Maharajan M, Wild edible plant diversity of Kotagiri hills - a part of Nilgiri Biosphere Reserve, Southern India, Jr. Res. Bio., 2 (2011) 80-87.
- Jain SK, Wild Plants-Foods of the Tribals of Bastar (Madhya Pradesh), (1963) 1-25.
- Jain SK and Sinha BK, Ethnobotanical aspect of life support species- some emergency and supplementary foods among aboriginals in India. Life support species: Diversity and

ISSN (Online) 2393-8021 ISSN (Print) 2394-1588



International Advanced Research Journal in Science, Engineering and Technology

ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016

- Conservation, (Paroda RS, Kapoor P, Arora RK and Mal Bhag. National Bureau of Plant Genetic Resources, New Delhi), (1988) 173-180.
- Uniyal SK, Awasthi A & Rawat GS, Traditional and ethnobotanical uses of plants in Bhagirathi Valley (Western Himalaya), Indian journal Of Traditional Knowledge, I (I) (2002) 7-19.
- Kar A, Common wild vegetables of Aka tribes of Arunachal Pradesh, Indian journal Of Traditional Knowledge, Vol. 3(3) (2004) 305-313.
- Rajasab AH & Mamamda Isaq, Documentation on folk knowledge on wild edible plants of north Karnataka, Indian journal Of Traditional Knowledge, 3(4) (2004) 419-429
- Nene YL, Plant species utilized as food during famines and their relevance today, Asian Agri History, 8 (2004)267-278.
- 10. Sinha R & Valeria L, Wild tribal food plants of Orissa, Indian journal Of Traditional Knowledge, 4 (3) (2005) 246-252.
- Dangwal LR, Singh T & Singh A, Exploration of wild edible plants used by Gujjar and Bakerwal tribes of District Rajouri (J&K), India, Journal of Applied and Natural Science, 6 (1) (2014) 164-169
- 12. Bandyopadhyay S & Mukharjee S, Wild edible plants of Koch Bihar District, West Bengal, Natural Product Radience,8 (1) (2009) 64-72.
- Satyavani S, Satyavathi K, Devi S & Padal B, Wild Edible plants Used for Indigenous Community of North -Coastal Andhra Pradesh, India, BMR Phytomedicine, 1(1) (2015) 1-7.
- 14. Kulkarni DK, Role of ethno-botany in modern agriculture. In: National Conference on Bridging gap between Ancient and modern technologies to increase agricultural productivity, (Chudhary SL, Saxena RC, and Nene YL), (Central Arid Zone Research Institute, Jodhpur, Rajasthan, India), 2006, 104-115.
- Bhogaonkar PY, Marathe VR & Kshirsagar PP, Documentation of wild edible plants of Melghat forest, dist. Amravati, Maharashtra State, India, Ethnobotanical Leaflet, (14) (2010) 751-758.
- Deshmukh BS & Shinde V, Fruits in the wilderness: a potential of local food resources, International Journal of Pharma and Bio Sciences, (2) (2010) 1-5.
- Jadhav VD, Mahadkar SD & Valvi SR, Documentation and ethnobotanical survey of wild edible plants from Kolhapur District, Recent Research in Science and Technology, 3(12) (2011) 58-63.
- Deshmukh BS & Waghmode A, Role of wild edible fruits as a food resource: Traditional knowledge, International Journal Of Pharmacy & Life Sciences, 2(7) (2011) 919-924.
- Reddy MB, Wild edible plants of Chandrapur District Maharashtra, India, Indian Journal of Natural Product and Resources, 3(1) (2012) 110-117.
- Dhore MM, Lachure PS, Bharsakale DB & Dabhadkar DK, Exploration of some wild edible plants from Digras Tahasil Dist. Yavatmal, Maharashtra, India., International Journal of Scientific and Research Publications, 2(5) (2012).
- Deshpande S & Kulkarni DK, Theriophonum indicum (Dalz.)
 Emgler. (Araceae) –Leafy vegetable of Gondia tribe, Vidarbha region, Maharashtra, Indian Journal of Fundamental and Applied Life Sciences, 3(4) (2013) 35-38.
- Vijigiri D & Bembrekar SK, Traditional knowledge wild edible plants used in the Mahur taluka of Nanded District, Maharashtra, India, Research Directions, 2(9) (2015) 1-5.
- Satpute SV, Documentation Of Wild Vegetables: A Study Based on Warud Tehsil – Maharashtra, International Journal of Informative & Futuristic Research, 2(8) (2015) 2663 – 2670.
- Oak G, Kurve P, Kurve S & Pejaver M, Ethno-botanical studies of edible plants used by tribal women of Thane District, Journal of Medicinal Plants Studies, 3(2) (2015) 90-94.
- Patale CK, Nasare PN & Narkhede SD, Ethnobotanical studies on wild edible plants of Gond, Halba and Kawar tribes of Salekasa taluka, Gondia District, Maharashtra State, India, International Research Journal of Pharmacy, 6(8) (2015) 512-518.
- Jain SK, Methods and approaches in Ethnobotany, Society of Ethnobotanists, Luknow, (1989)
- Cook T, Flora of the Presidency of Bombay. Vol. I-III. (Botanical Survey of India -REPR, Calcutta, India.) (1958)
- 28. Ugemuge NR, Flora of Nagpur District, (Shree Prakashan, Nagpur.), 1986.
- Sharma BD, Karthikeyan S & Singh NP, Flora of Maharashtra State. Monocotyledons. (Botanical Survey of India. Calcutta. India.) 1996
- Singh NP & Karthikeyan S, Flora of Maharashtra State: Dicotyledons Vol.-I. (Botanical Survey of India, Calcutta, India.), 2000.
- Singh NP & Karthikeyan S, Flora of Maharashtra State: Dicotyledons Vol.-II. (Botanical Survey of India, Calcutta, India.), 2001.



International Advanced Research Journal in Science, Engineering and Technology ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016

Table 1: – Observation on wild edible plants and associated study.

S.N.	Vernacular Name (Marathi, Gondi)	Scientific Name Family	Habit	Edible Plant Part	Method of Consumption	Season of availability	Commercially Sold
1	Aakola, Ankol	Alangium salvifolium (L. f.) Wangerin Alangiaceae	Tree	Fruit	Ripened Fruits are eaten.	Summer.	N
2	Dhan Bhaji, Mal Kukkur	Allmania nodiflora (L.) R. Br. ex Wight Amaranthaceae	Herb	Leaf	Leaves are cooked as vegetable.	Rains.	Y
3	Patur Bhaji	Alternanthera paronychioides St. Hil. Voy. Amaranthaceae	Herb	Leaf	Leaves are cooked as the vegetable.	Rains.	Y
4	Suran	Amorphophalus paeonifolius Dernst Araceae	Herb	Corm	The corm is boiled with some amount of tamarind and then cooked as the vegetable and eaten as food.	Winter.	N
5	Surpela	Antidesma acidum Retz. Euphorbiaceae	Shrub	Fruit	Ripened and semi-ripened fruits are eaten.	Rains.	N
6	Baswrael, Widhara, Samudrasok	Argyreia nervosa (Burm.f.) Bojer Convolvulaceae	Climber	Leaf	Wheat flour paste is applied over the leaf from both sides and steamed after that chopped to small pieces and fries are made and consumed as food.	Throughout the year.	N
7	Bamboo Vaaste, Katraanji	Bambusa <i>arundinacea</i> (Ritz.) Willd. Poaceae	Culms	Shoot	Young shoots of about 2 feet long are cut and outer covering is removed and then finely chopped and boiled, then by adding some spices vegetable is cooked. Finely chopped and boiled shoots are mixed with various flour to make delicious fries. Pickle also made from the same finely chopped shoots. Though it is prohibited to cut these shoots but still the tribal love to eat and cross the law and go for those in a rainy season. It is one of the prime tribal food since ancient time. Some tribal community used to wrap the shoots in Wild Turmeric Leaves and burry it in soil or covered earthen pot and sharp 24hr time is followed to take it out from same and then cooked as a vegetable and eaten as food.	Rains.	N



International Advanced Research Journal in Science, Engineering and Technology ISO 3297:2007 Certified

Vol. 3, Issue 7, July 2016

S.N.	Vernacular Name (Marathi, Gondi)	Scientific Name Family	Habit	Edible Plant Part	Method of Consumption	Season of availability	Commercially Sold
8	Bamboo Vaaste, Barik Bamboo	Bambusa glaucescens (Willd.) Sieb. ex Munro Poaceae	Culms	Shoot	Same as above.	Rains.	N
9	Kowdel	Bauhinia purpurea L. Caesalpiniaceae	Tree	Seed	Tender pods are cooked as a vegetable. Seed are Roasted and eaten as food.	Rains.	N
10	Pawur	Bauhinia vahlii Wight & Arn. Caesalpiniaceae	Woody Climber	Seed	Seeds are roasted and eaten as food.	Summer.	N
11	Khaparfuti	Boerhavia diffusa (L.) Hook. Nyctaginaceae	Herb	Leaf	Leaves are cooked as a vegetable.	Rains.	N
12	Taad	Borassus flabellifer L. Arecaceae	Tree	Fruit, Sprouts	Fruits are eaten. Whole mature fruit is burie in a pit and after successful germination, the sprouts are plucked and boiled and eaten.	Summer and Winter.	Y
13	Kasai, Kassi	Bridelia retusa (L.) Spreng. Euphorbiaceae	Tree	Fruit	Ripened fruits are eaten.	Rains.	Y
14	Charoli, Rekka	Buchanania cochinchinensis (Lour.) Almeida Anacardiaceae	Tree	Fruit	Ripened fruits are eaten. Dried seeds are eaten.	Summer.	Y
15	Junglee tur	Cajanus scarabaeoides (L.) du–Petit–Thours Fabaceae	Climber	Fruit	Fresh and raw Seeds are eaten.	Winter.	N
16	Rui	Calotropis procera (Ait.) R. Br. Asclepiadaceae	Shrub	Fruit	Raw fruits are pilled off and chopped into small pieces and cooked as a vegetable.	Winter.	N
17	Tarota, Cherota	Cassia tora Sensu Baker. Caesalpiniaceae	Herb	Leaf	Tender leaves are cooked as a vegetable.	Rains.	N



International Advanced Research Journal in Science, Engineering and Technology ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016

S.N.	Vernacular Name (Marathi, Gondi)	Scientific Name Family	Habit	Edible Plant Part	Method of Consumption	Season of availability	Commercially Sold
18	Pimpli cha baar, Warandul Tonda	Celastrus paniculatus Willd. Celastraceae	Climber	Flower	Flowers are boiled and water is removed and cooked as a vegetable.	Summer.	Y
19	Bramhi	Centella asiatica (L.) Urban Apiaceae	Herb	Leaf	Leaves are crushed to paste and pinch of Pepper and Salt is added and mixed to make chutney be eaten.	Throughout the year.	N
20	Pandhara fendra, Madanghanta	Ceriscoides turgida (Roxb.) Tirveng. Rubiaceae	Tree	Fruit	Raw fruits are chopped into pieces and cooked as a vegetable.	Rains.	Y
21	Besemati, Halduli	Cheilocostus speciosus (J.Koenig) C.D.Specht Costaceae	Herb	Corm	Corms are excavated and then cleaned and boiled and eaten during famine. Corms are excavated and then cleaned – crushed and cooked as a vegetable by adding some spices also curry is prepared from are scaled and chopped rhizome.	Rains.	N
22	Batwa	Chenopodium album L. Chenopodiaceae	Herb	Leaf	Leaves are cooked as a vegetable.	Winter.	N
23	Lodanga bhaji	Chlorophytum sp. Liliaceae	Herb	Leaf, Root	Leaves are used to make Dalbhaji. Root tubers are eaten raw.	Rains.	N
24	Fotakani	Corchorus capsularis L. Tiliaceae	Herb	Leaf	Young and Tender Leaves are cooked as a vegetable.	Rains.	N
25	Fotakani	Corchorus olitorius L. Tiliaceae	Herb	Leaf	Young and Tender Leaves are cooked as a vegetable.	Rains.	N
26	Shembadi, Shelvati	Cordia dichotoma Forst. Boraginaceae	Tree	Fruit	Raw fruits are used to cook vegetable and pickle. Ripened fruits are eaten.	Summer.	N



International Advanced Research Journal in Science, Engineering and Technology ISO 3297:2007 Certified

Vol. 3, Issue 7, July 2016

S.N.	Vernacular Name (Marathi, Gondi)	Scientific Name Family	Habit	Edible Plant Part	Method of Consumption	Season of availability	Commercially Sold
27	Bamboo Vaaste, Heedi, Veddur, Maanval Ranji	Dendrocalamus strictus (Roxb.) Nees Poaceae	Culms	Shoot	Young shoots of about 2 feet long are cut and outer covering is removed and then finely chopped and boiled, then by adding some spices vegetable is cooked. Finely chopped and boiled shoots are mixed with various flour to make delicious fries. Pickle also made from the same finely chopped shoots. Though it is prohibited to cut these shoots but still the tribal love to eat and cross the law and go for those in a rainy season. It is one of the prime tribal food since ancient time. Some tribal community used to wrap the shoots in Wild Turmeric Leaves and buried it in soil or covered earthen pot and sharp 24hr time is followed to take it out from same and then cooked as a vegetable and eaten as food.	Rains.	N
28	Michad mara, Ran Keli	Dillenia pentagyna Roxb. Dilleniaceae	Tree	Fruit	Ripened fruits are eaten.	Summer.	N
29	Padmati	Dioscorea pentaphylla L. Dioscoreaceae	Climber	Bulb	Root are boiled and scaled and eaten during scarcity.	Rains and Winter.	N
30	Tembhru, Tumri	Diospyros melanoxylon Roxb. Ebenaceae	Tree	Fruit	Ripened fruits are eaten.	Summer.	Y
31	Tirka	Diospyros peregrina (Gaertn.) Guerke Ebenaceae	Tree	Fruit	Ripened fruits are eaten.	Summer.	N
32		Eryngium foetidum L Apiaceae	Herb	Leaf	A few leaves are chopped finely and added as flavoring like Coriander to various curry preparation especially in Meat.	Throughout the year.	N



International Advanced Research Journal in Science, Engineering and Technology ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016

S.N.	Vernacular Name (Marathi, Gondi)	Scientific Name Family	Habit	Edible Plant Part	Method of Consumption	Season of availability	Commercially Sold
33	Umber, Toya	Ficus racemosa Linn. Moraceae	Tree	Fruit	Ripened fruits are eaten.	Throughout the year.	N
34	Kakai, Hapa Vadama	Flacourtia indica (Burm. f.) Merr. Flacourtiaceae	Tree	Fruit	Ripened fruits are eaten.	Summer.	N
35	Kadubhaji, Kayata bhaji	Glinus oppositifolius (L.) A. DC. Molluginaceae	Herb	Leaf	Leaves are cooked as a vegetable.	Rains.	N
36	Darachi	Grewia asiatica L. Tiliaceae	Shrub	Fruit	Ripened fruits are eaten.	Winter.	N
37	Yensadad	Holoptelea integrifolia (Roxb.) Planch. Ulmaceae	Tree	Seed	Seeds are roasted and eaten as food.	Summer.	N
38	Kaamoni, Madhumaalti	Lantana camara L. Verbenaceae	Shrub	Fruit	Ripened fruits are eaten.	Throughout the year.	N
39	Lakholi	Lathyrus sativus L. Fabaceae	Herb	Leaf, Fruit	Tender leaves are cooked as a vegetable. Pods are roasted and eaten.	Winter.	N
40	Moha, Irpi	Madhuca longifolia (Koen.) Mac Bride Sapotaceae	Tree	Flower, Fruit	Fleshy flowers are eaten. Similarly, dried flowers are stored and eaten throughout the year. Fruits are also eaten.	Summer.	Y
41	Khirni	Manilkara hexandra (Roxb.) Dub. Sapotaceae	Tree	Fruit	Ripened fruits are eaten.	Winter.	Y
42	Bharkad	Maytenus senegalensis (Lam.) Excell. Celastraceae	Shrub	Flower	Young flowers and buds are boiled and then water is taken out and then cooked as a vegetable.	Winter.	N



International Advanced Research Journal in Science, Engineering and Technology ISO 3297:2007 Certified Vol. 3, Issue 7, July 2016

S.N.	Vernacular Name (Marathi, Gondi)	Scientific Name Family	Habit	Edible Plant Part	Method of Consumption	Season of availability	Commercially Sold
43		Merremia gangetica (L.) Cufod. Convolvulaceae	Herb	Leaf	Leaves are cooked as a vegetable.	Rains and Winter.	N
44	Diwati	Merremia hederacea (Burm. f.) Hall. Convolvulaceae	Climber	Fruit	Seeds are eaten raw and roasted.	Rains.	N
45	Kamal, Bhishi chya biya, Kokomba	Nilumbo nucifera Gaertn Nelumbonaceae	Herb	Seed	Seeds are eaten raw and roasted.	Winter.	Y
46	Haratfari, Korpa jappi	Olax psittacorum (Willd.) Vahl Olacaceae	Climber	Leaf	Tender leaves and shoots are plucked and boiled and cooked as a vegetable. Some people add boiled Bengal Gram too.	Rains.	Y
47	Tattu	Oroxylum indicum (L.) Vent. Bignoniaceae	Tree	Fruit, Flower	Flowers are boiled and cooked as a vegetable. Fruits are chopped to small pieces and used to make pickle.	Rains.	Y
48	Chihoda Bhaji	Oxalis corniculata L. Oxalidaceae	Herb	Leaf	Leaves are cooked as a vegetable.	Throughout the year.	N
49	Utaran, Hacher	Pergularia daemia (Forssk.) Choiv. Asclepiadaceae	Climber	Fruit	Raw fruits are pilled off and chopped into small pieces and cooked as a vegetable.	Winter.	N
50	Bhui Shindi,Metta heendi	Phoenix acaulis Roxb. Arecaceae	Shrub	Undergro und Petiole	Underground petiole (Finger-length) is scaled and eaten raw.	Throughout the year.	N
51	Shindi, Gaavthi heendi	Phoenix sylvestris (L.) Roxb. Arecaceae	Tree	Fruit	Ripened fruits are eaten.	Summer.	N
52		Rostellularia procumbens (L.) Nees Acanthaceae	Herb	Leaf	Fist-full of leaves are added to Bamboo shoot vegetable to enhance flavor.	Rains.	N



International Advanced Research Journal in Science, Engineering and Technology ISO 3297:2007 Certified

Vol. 3, Issue 7, July 2016

S.N.	Vernacular Name (Marathi, Gondi)	Scientific Name Family	Habit	Edible Plant Part	Method of Consumption	Season of availability	Commercially Sold
53	Kusum, Kojub	Schleichera oleosa (Lour.) Oken Sapindaceae	Tree	Fruit	Ripened fruits are eaten.	Summer.	N
54	Kachar Kaandaa, Kasoor Maati	Scripus grossus (L.f.) Palla Cyperaceae	Herb	Root	Rootstocks are boiled and external layer is scaled and eaten as food.	Winters.	Y
55	Biba, Kohka	Semecarpus anacardium L. f. Anacardiaceae	Tree	Thalamus	Ripened thalamus is eaten.	Winters.	N
56	Sherdire	Smilax zeylanica L. Smilacaceae	Climber	Tendril	Young tendril and shoots are boiled and cooked as vegetable.	Rains.	Y
57		Solanum torvum Swartz. Solanaceae	Shrub	Fruit	Fruits are chopped and cooked as a vegetable.	Throughout the year.	N
58	Kala Fendra, Katul Kaya	Tamilnadia uliginosa (Retz.) Tirveng. & Sastre Rubiaceae	Tree	Fruit	Raw fruits are chopped into pieces and cooked as a vegetable. Ripened fruits are eaten.	Rains and Winter.	N
59	Behada, Taahaka	Terminalia bellirica (Gaertn.) Roxb. Combretaceae	Tree	Seed	Testa is removed and cotyledons are eaten as food.	Summer.	Y
60	Kochai	Theriophonum dalzellii Schott Araceae	Herb	Leaf	Leaves are used to make Dalbhaji. Gram flour paste is applied to Leaf surface and cooked over the stem and chopped to small pieces and fried and eaten.	Rains.	N
61	Surya, Kadhai	Xylia xylocarpa (Roxb.) Taub. Mimosaceae	Tree	Seed	Seeds are roasted and eaten as food.	Summer.	N