

Uses of Plant Conservation by the Tribes of Amarkantak District, Madhya Pradesh, India

Girja Kumar Singh¹, Ramesh Kumar Ahirwar²

¹Department of Botany, Government Chandra Vijay College, Dindori-481880, India

²Department of Botany, Government College Birsinghpurpali, Umaria-484551, India

Abstract: The present paper deals with 30 plants species which are conserved by the tribes of Amarkantak district Anuppur Madhya Pradesh. Due to destruction of habitat, biotic interference and indiscriminate exploitation of natural plants, many valuable plant species of this area are fast disappearing. Aborigines conserve these species by faiths, myths, taboos and religious aspects.

Keywords: Plant Conservation, Tribes, Amarkantak, Anuppur.

1. Introductions

Amarkantak plateau is one of the important tourists place in district Anuppur, Madhya Pradesh. This district is located in the central part of India. It is lying between 23°15' to 24°N Latitude and 81°0' to 81°45'E longitude. The total area of 3701 Sq. Km extends 80 Km. from east to west and 70 Km. from North to South. Several tribals as *Gond, Kondar, Kol, Baiga, Bharia*, etc. are maintaining their culture and traditions since these cultures are influenced by scientific and economic changes, it is therefore, essential to study and conserve them before they become extinct. Madhya Pradesh still has the aboriginal tribals living in the forest as well as in the remote villages inhabited by so called higher castes. Since they are distributed mostly in the areas previously occupied by thick forest, they have learnt to use these habitats better for their living. (Figure 1)

A survey of literature indicates that Dwivedi (2003), Jain (1963,1997), Khare (2001), Prajapati and Khare(2004),

Saxena and Tripathi (1989,1990), Shah and Singh (1990) and Singh *et al* (2004) has made important contribution in this field. The tribals do not have any well defined conservation strategy of the kind we understand in modern terms. But they do conserve plants that are medicinally, economically, socially and culturally significant to them. Their mode of conservation depends on faith and tradition.

2. Material and Methods

For the ethnobotanical study plant human interaction has to be observed carefully in the dynamic ecosystem in which they exist. The plants were collected by the investigator from the different study sites of Anuppur district during 2002-2003 by extensive field work. The queries were made as per plan suggested by Jain and Goel (1987) and the preservation methods were followed as prescribed by Agrawal(1983) and Ahirwar (2011).

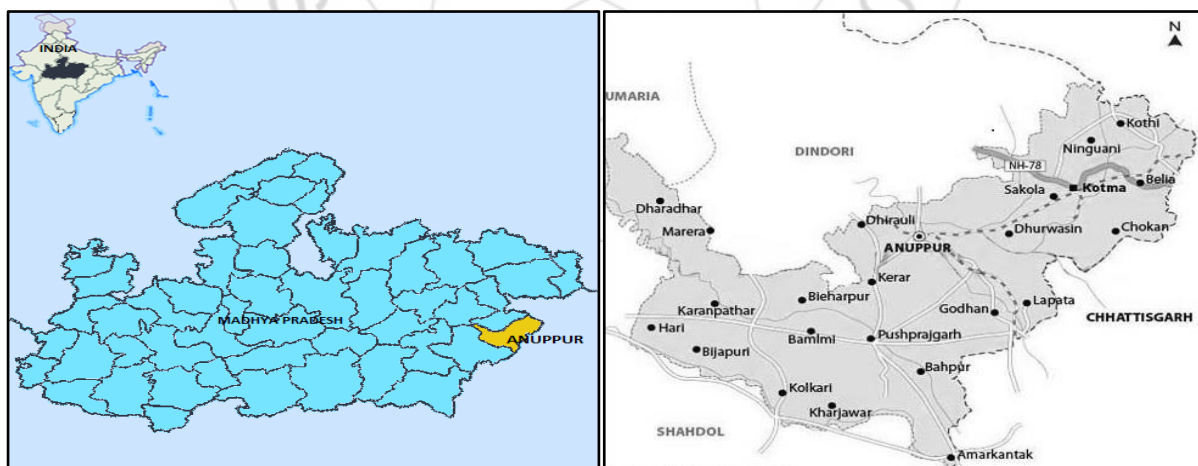


Figure 1: Location Map of Madhya Pradesh and study site District Anuppur

Table 1: Uses of Plant Conservation by the Tribes of Amarkantak, District Anuppur, Madhya Pradesh, India

S.No.	Plant Name (Local Name)	Family	Plant part uses	Reason for Conservations
1.	<i>Achyranthusaspera L.(Chirchita)</i>	Amaranthaceae	Root and leaves	Roots are leaves are used in medicine.
2.	<i>Adina cordifolia</i> Benth. & Hook (Haldu)	Rubiaceae	Wood	The wood is considered auspicious.
3.	<i>Aeglemarmelos (L.) Corr.(Bel)</i>	Rutaceae	Leaf	Sacred plant, the leaves are used to worship ' Lord Shiva'.
4.	<i>Annonasquamosa</i> (Sitaphal)	Annonaceae	Fruit, seed	For fruits and medicine.

5.	<i>Anthocephaluschinensis</i> (Lamk.) Rich.(Kadam).	Rubiaceae	Whole plant	Sacred plant, fruits are edible.
6.	<i>Azadirachta indica</i> Juss.(Neem)	Meliaceae	Leaf	Plant is an abode of 'Marhi Mata' (The Goddess of small pox) Leaves are used in medicines and pest control.
7.	<i>Boswelliaserrata</i> Colebr.(Salaiya)	Burseraceae	Wood	The poles of wood are considered auspicious for wedding place.
8.	<i>Buchanania lanzan</i> Spr.(Char)	Anacardiaceae	Fruits and seeds	For fruits and seeds.
9.	<i>Buteamonosperma</i> (Lamk.) Taub. (Palas)	Papilionaceae	Leaves and flowers	Leaves are used for thatches, and the flowers are used to worship 'Lord Jagannath.
10.	<i>Calotropis procera</i> Br.(Madar)	Asclepiadaceae	Flowers and fruits	The flowers and fruits are used to worship 'Lord Shiva'.
11.	<i>Erythrina suberosa</i> Roxb.(Handua)	Papilionaceae	Wood	The wood is considered auspicious for wedding place.
12.	<i>Ficus bengalensis</i> L.(Bar)	Moraceae	Whole plant	Sacred plant worshiped on 'Bara Barsat' festival.
13.	<i>Ficus religiosa</i> L.(Pipal)	Moraceae	Whole plant	The plant is considered on abode of 'Barsat' festival.
14.	<i>Gymnemasylevestre</i> (Retz.) R.Br.(Gurmar)	Asclepiadaceae	Leaf	The leaves are used in medicine.
15.	<i>Holarrhena antidysenterica</i> Wall.(Dudhi)	Apocynaceae	Bark	The bark is used for medicine.
16.	<i>Holoptelea intergrifolia</i> (Roxb.) Planch.(Chirol)	Ulmaceae	Leaf and Bark	Leaves are used as fish poison and bark is used in medicine.
17.	<i>Lawsonia inermis</i> L. (Menhdi)	Lythraceae	Leaf	The leaves are used for dye.
18.	<i>Madhucal longifolia</i> (Koen.) Mac. Br.(Mahua)	Sapotaceae	Whole plant	Sacred plant, flowers used for liquor, and the wood is considered auspicious.
19.	<i>Mangifera indica</i> L.(Aam)	Anacardiaceae	Whole plant	For wood, leaves and fruits. The inflorescences are offered to 'Lord Shiva' at Mahashivratri festival.
20.	<i>Ocimum sanctum</i> L. (Tulsi)	Lamiaceae	Whole plant	Sacred plant, worshiped by girls for good groom.
21.	<i>Phoenix sylvestris</i> Roxb. (Khajri)	Araceae	Leaf, fruit	The fruits are edible and leaves are used to make headgear and brooms.
22.	<i>Emblica officinalis</i> L.(Amla)	Euphorbiaceae	Whole plant	Sacred plant, worshipped on 'Akshaya Navmi', fruits are eaten and used in medicine.
23.	<i>Sterculia aurens</i> Roxb.(Kullu)	Sterculiaceae	Whole plant	The plant is conserved for gum, wood and medicine use.
24.	<i>Sterculia villosa</i> Roxb.(Udar)	Sterculiaceae	Root	The root is taken as a medicine.
25.	<i>Syzygium cumini</i> (L) Skeels.(Jamun)	Myrtaceae	Fruits	Fruits are edible.
26.	<i>Terminalia arjuna</i> (Roxb.ex. DC.) Wt. & Arn. (Kahwa)	Combretaceae	Whole plant	Sacred plant, bark is used in medicine.
27.	<i>Terminalia bellerica</i> (Gaertn.) Roxb.(Bahera)	Combretaceae	Fruits	The fruits are eaten with of Amla as a medicine.
28.	<i>Terminalia chebula</i> Retz.(Harra)	Combretaceae	Fruits	Roasted fruits are eaten as a medicine.
29.	<i>Terminalia tomentosa</i> Wt. & Arm.(Saja)	Combretaceae	Whole plant	Sacred plant, dwelling place of 'Bara Dev'.
30.	<i>Woodfordia fruticosa</i> (L.) Kurz.(Dhwai)	Lythraceae	Flowers	Flowers used in medicine.

3. Results and Discussion

During study period is reported with 30 plant species, which are conserved by the tribals of Anuppur district for obvious reasons. These tribals organise various occasions and worship plants time to propitiate their gods and goddess. These traditions encouraged us to know their beliefs and ethnobotanical importance behind it. The botanical name of plants are alphabetically arranged, followed by their local name. All the data obtained as a sequence of present study has been reported.(Table 1)

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References

- [1] Agrawal, V.S.(1983). Perspective in Botanical Museum with species reference to India. Today and Tomorrow, New Delhi.
- [2] Ahirwar, R.K. "Ethno medicinal plants studies in Jaitpur Forest Range of Shahdol District, Central India." *Ad.plantSci* 24 (2011): 681-684.
- [3] Ahirwar, Ramesh Kumar and Girja, Kumar Singh (2011) Some anti diabetic plants from Dindori District of Madhya Pradesh (India). *Ind. J. Appl. pure Bio.* 26 (2) 269-271.
- [4] Dwivedi, S.N.(2003). Etgnobotanical studies and conservational strategies of wild and natural resources of Rewa district of Madhya Pradesh, *J.Econ. Taxon.Bot.* 27.
- [5] Jain, S.K.(1963), Observations on ethnobotany of the tribals of Madhya Pradesh. *Vanyajati* 11(4): 177-183.

- [6] Jain, S.K. and A.K. Goel(1987). Problem for field work. P. 171-183. In manual of ethnobotany. Ed. S.K. Jain, Scientific publisher(India) Jodhpur.
- [7] Khare, R.K. (2001) Study of ethnobotany among the tribals of Panna district with species reference to biodiversity. Ph. D.Thesis A.P.S. Univ.Rewa (M.P.)
- [8] Prajapati, P.L. and P.K. Khare (2004). Medicinal plants used by tribals of Panna district Madhya Pradesh (India) *Plant Archives*.4:113-115.
- [9] Saxena, S.K. and J.P. Tripathi(1989). EthnobotanyBundelkhand I. Medicinal uses of wild trees by tribals inhabitants of Bundelkhandregion.*JouEco.Taxono..Bot*.14:263-170.
- [10] Saxena, S.K. and J.P. Tripathi(1990). EthnobotanyBundelkhand.II.Folklore therapy through herbs among inopulent parishioners and aboriginal tribes.*Jou.Eco.Taxono.Bot...*14 :263-270.
- [11] Shah, N.C. and S.C. Singh (1990), Hitherto unreported phytotherapeutical uses of tribals pockets of Madhya Pradesh, India, *Ethnobotany*, 2 : 91-95.
- [12] Singh,MrigendraPratap, A.A. Khan and Shabina Khan (2004). Medicinal plants of ethnobotanical importance curing. Jaundice from Maikal Hills (Amarkantak) Shahdol district.(M.P) India. *Ad. Plant Sci.*,17(1):41-44.

