Socio-Economic Importance of Some Plants Species Used By the Tribes of Chanda Forest District Dindori Madhya Pradesh, India

Ishwar Chandra Prana¹, Ramesh Kumar Ahirwar²

¹Department of Botany, Government P.G College, Shahdol-484001, India
²Department of Botany, Government College Birsinghpur Pali-484551, India

Abstract: The paper highlighted of some important Ethnomedicinal plants which are used in various disease by the tribes of District Dindori Madhya Pradesh. The rural and the tribal folk form majority of the population of district and most of them are economically backward. Some steps are needed for the economic upliftment of these backward people which will not require major monetary input or skilled labour. The most easy and adaptable mode of employment is the gainful exploitation of plants and plant products available in the vicinity for their economic betterment.

Keywords: Socio-economic, Tribes, Dindori, Ethnomedicinal plants, Madhya Pradesh.

1. Introduction

An Ethnobotanical relationship is already existent between the inhabitants and plant in the forest. The tribals collect fuel, from the forest around them. A base thus already exists for the exploitation of the forest products as a source of income. The plants grow around the dwellings of the tribals, who utilize many plants as food, herbal drugs, ropes, strings, oils, fats, flavours and dyes. These tribesmen have developed a good expertise to locate, harvest and process these useful materials.

Among the plant products, some of them have good scope economically such as essential oil bearing plant, oil-seed plants, gums and resins, fruits and nuts, vegetables and specially the medicinal herbs as a recent spurt in the manufacture of herals drugs that has created a great demand for medicinal plants. There are some plants which can be formed into items of value such as ropes and other cordages, baskets, mats, other, woven products, brooms, brushes, agricultural implements etc. the expert capacity of locating and collecting these useful plants and techniques for their subsequent processing and utilization is already available with the people living in these forests or villages of the dense rural areas, but the need is to convince them of the benefits which can solely be theirs. Such type of studies has been made by many workers Agrawal 1980, Arora 1989, Brijjal and Dubey 1992, Oommachan 1988, Maheshwari and Dwivedi, 1992, Khan and Khan 1997, Verma et al. 1995 and Kaushik and Dhiman 2000 and Ahirwar,2015.

2. Materials and Methods

Chanda forest is located in Dindori District, Madhya Pradesh,India and also known as Central India. It is lying between 80˚12” to 23˚12” N Latitude and 80˚18” to 81˚51” E Longitude and total area to 8771 Sqm. Dindori District is surrounding by North District Umaria, South District Kaverdha, Chattishgarh State ; East District Shahdol. The District has average rainfall 1400 mm, and temperature 45˚C Maximum in June and 02˚ C Minimum in December. Chanda forest is total area of 2181.14 hectare, Chanda forest is a very rich of Botanical wealth and a large number of diverse wild edible plants that are used by different Ethinc people for medicinal purpose grow wild in different parts of the country. The tribal people of the Chanda forest district Dindori practice a various range of occupation such as hunting, gathering, fishing, plough agriculture and shift agriculture is the main stay of the tribals. Regardless of their principal mode of subsistence they collect and consume major and minor forest product (Figure 1 and Figure 2).

![Figure 1: Location Map of India in Madhya Pradesh](image1)

![Figure 2: Location Map of study area, District Dindori, Madhya Pradesh](image2)
3. Results and Discussion

The present study has revealed that the resources of the District Dindori are rich in raw materials for establishing many cottage industries. A systematic account is enumerated below.

3.1 Fiber, Mats and Baskets: There are many species of plants which are used for making fibers and utilised in different ways economically. Fibers obtained from ‘Akwan ‘(Calotropis gigantean (L.)) ‘Bhang’ (Cannabis sativa (L.)), ‘Kusha’ (Desmostachys bipinnata(L.)), ‘Murr’ (Helicteres isora (L.)), ‘Kachnari’ (Bauhinia vahlii (W. & A.)), ‘Munj’ (Saccharum Bengalense (R.)), ‘Udari’ (Sterculia villosa (R.)), and ‘Chhindi’ (Phoenix sylvestris (R.)) are used for making ropes and fishing nets. The fibers of ‘Sanai’ and ‘Murra’ are obtained after retting the stem.

The stem of ‘Arhar’(Cajanus cajan(L.)), ‘Bent’ (Calamus tenuis (R.)), ‘Dudhbelha’ (Ichnocarpus frutescens (L.)), ‘Baans’ (Dendrocalamus strictus (N.)) and ‘Chhela’ (Butea monosperma(Lamk.)) are used for making baskets where as ‘Murra’(Helicteres isora (L.)) and ‘Kulari’ (Phragmites maxima(F.)) are used in making mats.

An organised collection of these plants should be arranged as there is much scope for utilising these plants in minor forests products industry.

3.2 Herbal Drugs or Ethnomedicinal Plants: - District Dindori is inhabited by a large number of Ethnomedicinal species like Asparagus racemosus (Willd.), Amla (Emblica officinalis (Gaertn.)), Arandi (Ricinus communis (Linn.)), Anjum (Celastrus paniculatus (Willd.)), and Als (Linum usitatissimum (Linn.)) yield edible and non edible oils which can be of much commercial value. A systematic collection and processing of these seeds should be organised in the district which generate much employment for the tribal peoples.

Some species like Cynoglossum lanceolatum (Forsk.) are used in the treatment or stomach disorder and Helminthostachys zeylanica (Hask.) and Murraya paniculata (Koeng.) are used in the treatment of Arthritis. The leaves of Centella asiatica urban (L.) and Caesulia axillaris. (R.) act as source of energy to young and old equally. Some species like Asparagus racemosus (Willd.). Which are very important medicinally contain some essential oils, Asparagin and Tyrosin as its major ingredients. Heydychium coronarium (Tuber.) is used to treat optic disorders.

These drug plants can be further investigated for their active principals and tested for all the pharmacological and clinical trials and then be released for safe use as drugs by urban peoples. Thus studies will bring to light some new sources of medicine of herbal origin.

3.3 Timber for Agriculture, construction and musical instruments: Stems of many species such as babul (Acacia nilotica (Willd.)), ‘Khair’ (Acacia catechu (Willd.)), ‘Haldu’ (Adina cordifolia(Hook.)), ‘Chheola’ (Butea monosperma(Taub.)), ‘Shisham’ (Dalbergia sissoo (Roxb.)), ‘Semal’ (Salmalia malbarica (Schott & Endl.)), ‘Sarai’ (Shorea robusta (Gaert.)), ‘Jamun’ (Syzygium cumini (Skeels)), ‘Amla’ (Emblica officinalis (Gaertn.)), ‘Sagaun’ (Tectona grandis (Linn.)), ‘Mahua’ (Madhuca latifolia(Roxb.)), ‘Baans’ (Dendrocalamus strictus (Roxb.)), and ‘Aam’ (Magniferea indica (Linn.)) are of much economic value as they provide timber useful in house building for making the framework.

Wood of ‘Mahua’ (Madhuca latifolia (Roxb.)) and ‘Chheola’ (Butea monosperma (Lamk.)) are also of much economic value as they are useful in making agricultural implements like plough and field leverer. Wood of species like ‘Bara neem ’ (Toona ciliata (Roem.)) and ‘Sawan; (Gmelina arborea (Roxb.) are used for making the frames of musical instruments like ‘Dholki’ and ‘Mandar’.

Steps may be taken to utilise the wood resources of the district for the betterment of the tribals residing there.

3.4 Oil Seeds: - Seeds of some species like Mahua (Madhuca latifolia (Roxb.)) Sarai (Shorea robusta (Gaertn.)), Bhakreda (Jatropha gossipofilia (Linn.)), Arandi (Ricinus communis (Linn.)), Anjum (Celastrus paniculatus (Willd.)), and Als (Linum usitatissimum (Linn.)) yield edible and non edible oils which can be of much commercial value. A systematic collection and processing of these seeds should be organised in the district which generate much employment for the tribal peoples.

4. Miscellaneous

4.1 Firewood - The wood of species like ‘Aam’ (Magniferea indica (L.)), ‘Sejhi’ (Lagerasterioa parviflora (Roxb.)), ‘Phulchhiyia’ (Lantana camera (Linn.)), ‘Tendu’ (Diospyrus melanoxylon (Roxb.)), ‘Lalphulchhiyia’ (Woodfordia floribunda (Kurtz.) are used as firewood.

4.2 Brooms -Branches and Inflorescences of the species like ‘Arhar’ (Cajanus cajan (Linn.)), ‘Chhindi’ (Phoenix sylvestris (Linn.)), ‘Seekh’ (Vetiveria zizanioides (Linn.)), are used to make brooms.

4.3 Umbrella -Leaves of ‘Mahul’ (Bauhinia vahlii (W & A)), ‘Bhelma’ (Semecarpus anacardium (Linn.)), ‘Sagaun’ (Tectona grandis (Linn.)) and ‘Sarai’ (Shorea robusta(Gaert)). are tied with its own stalks and an a liner below a framework made up of ‘Baans’ (Dendrocalamus strictus (Roxb.)) to make umbrellas which act as a protection against Sun and rains when these tribals work in fields. These umbrellas can be sold in bulk in the local markets as items of Art and Culture thus fetching good price which will be helpful in raising the economic standard of the tribals of District.

4.4 Oral Hygiene - Tribals use toothsticks to clean their teeth. Sticks of speices like ‘Amrud’ (Psidium guajava

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Thus it is evident that district is rich in raw materials for setting many cottage industries, through due care must be taken to preserve and maintain the cultural traditions of the tribes while undertaking the projects on tribes and their economic upliftment.

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References