



Universal Impact
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1.2210:2013

Index Copernicus

ICV 2011: 5.09

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PLANT USED IN PREPARATION OF AGRICULTURAL IMPLEMENT IN JALGAON DISTRICT MAHARASHTRA, INDIA

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ABSTRACT:

A study of indigenous plants used in preparation of Agricultural implement in Jalgaon district Maharashtra was carried out. Two plant species used for preparation of variety of tools e.g. hoe, plough, digging, stick, axe and sickle. A wide range of woods is used for making agricultural implement.

KEY WORD: - *Indigenous plants, Agricultural implement, Jalgaon district.*

INTRODUCTION:

Jalgaon district is inhabited a large section of rural population apart from the aboriginal populace. The Bhill, Pawara, Tadvi and Vanjari are mostly live in forest. Agricultural is their main stay. An agricultural practice is not technologically, well developed, it is traditional. Tribals and rural populace of farmer use variety of agricultural implements in their agricultural practices most of the tools are made up of various plant parts which are observed in their close vicinity. The flora of this region is known through Patil (2007) Kshirsagar and Patil (2008), Cooke flora (1985) etc.

MATERIAL AND METHODS:

The information has collected in the course of ethnobotanical studies in various part of Jalgaon district. Field trips were conducted in tribal hamlets and villages in Jalgaon district the information was collected by interviewing elder tribals and rural people. Each claim was verified

repeatedly. The plant collected has been housed in the Herbarium of Pratap collage Amalner. They have been identified using various district, regional floras by Patil (2003), Naik (1998) Lakshminarsimhan and Sharma. The plants have been described alphabetically in details with reference to botanical name, vernacular name, family, plant part and implement.

RESULTS AND DISCUSSION:

The tribal and rural people in this region use a Variety of tools e.g. hoe, plough, digging, stick, axe, iron, scraper and sickle. They also used simple county plough for turring soil. Wood used for making these implements are made from twenty-two plant species of nine families wood selection for making implement is a traditional wisdom. A strong hard tough timber is required for agricultural implements.

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Table - List of plants used in Agricultural implements

No	Scientific name	Family	Local name	Part used	Agricultural implements
1.	<i>Abelmoschus manihit</i> (L.) Medik subsp. <i>tetraphyllus</i> (Roxb. Ex fornem Borss)	Malvaceae	Ranbhedi	Fibres	Gophna
2.	<i>Abelmoschus manihit</i> (L.) Medik subsp. <i>tetraphyllus</i> (Roxb. Ex fornem Borss)	Malvaceae	Ranbhedi	Fibres	Jotype
3.	<i>Acacia catechu</i> (L.f.) Willd	Mimosaceae	Khair	Wood	Tool handle bows spear handle plough
4.	<i>Acacia nilotica</i> willd ex Del. Subsp <i>India</i> (Bths. brenan)	Mimosaceae	Babhal	Wood	Axles shaft yolks
5.	<i>Acacia polycantha</i> Willd	Mimosaceae	Son khair	Wood	Handle of axe
6.	<i>Albizia lebbak</i> (L.) Willd	Mimosaceae	Shirish	Wood	Cane crusher
7.	<i>Albizia procera</i> Benta.	Mimosaceae	Pandhari shrish	Wood	Dugouts ours pulses pounder
8.	<i>Anogcissus latitolia</i> Bedd	Combretaceae	Dhawad	Wood	Shafts axels, poles tool handles
9.	<i>Cajanus cajan</i> (L.) Millsp	Fabaceae	Tor	Wood	Stalk are employed for making baskets
10.	<i>Cajanus cajan</i> (L.) Millsp	Fabaceae	Tor	Wood	Stalk are tied and used for sweeping farm yard
11.	<i>Cassia fistula</i> (L.)	Caesalpiniaceae	Bawa	Wood	Wood is used for plough, wheel, tool handle
12.	<i>Careya arbored</i> Roxb.	Barringtoniaceae	Kumbhi	Wood	Tool handles
13.	<i>Eucalyptus globules</i> Labill.	Mgtrtaceae	Nilgiri	Wood	Plough bars
14.	<i>Harduickia Binata</i> Roxb.	Caeslpiniaceae	Anajn	Wood	Plough tool handle
15.	<i>Pithecellobium dulce</i> Robx.	Mimosaceae	Vilayathi chinch	Wood	Carts
16.	<i>Prosopis cineraria</i> (L.) Druce.	Mimosaceae	Shami	Wood	Foot handles
17.	<i>Lannea coromandelica</i> (Houttr) Merr.	Anacardiaceae	Mohin	Wood	Wheel spokes plough
18.	<i>Syzygium cumini</i> (L.) Skeels.	Myrtaceae	Jambhol	Wood	Wooden jar tool handle well-worn rahatt
19.	<i>Tamarindus indica</i> (L.)	Caesalpiniaceae	Chincha	Wood	Handle of pavadi tikam
20.	<i>Terminalia bellirica</i> (Gaertn) Roxb.	Combretaceae	Behdu	Wood	Plough bullock carts
21.	<i>Terminalia cranulata</i> Raoth.	Combretaceae	Rajal roda	Wood	Plough and cultivators