

ETHANOBOTANICAL SURVEY OF KOPARGAON TEHSIL OF MAHARASHTRA

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ABSTRACT

The present study deals with Ethanobotanical Plants use by the people of Kopergaon Tehsil of District Ahmednagar (M.S.) India. In the present investigation it is observed that, the total of 48 valuable plant species belonging to 29 families are identified with relevant information and documented in this paper, with regard to their Botanical Name, Habit, Local Name, Family, Origin, Plant part use and utilized by the local people and medicinal practitioners for the common ailments like diseases like cough, cold, piles, diabetes, skin disease, hepatitis, fever, toothache, etc.

KEYWORDS: Ethanobotanical Plants, diabetes, skin disease,

hepatitis.

INTRODUCTION

India is very rich in plant and Animal biodiversity. It encompasses about 45,500 species of plant and 91,000 species of animal. As the civilization progresses man started utilizing the plants as a source of medicine by his keen observations and knowledge. The traditional knowledge is based on not only plants but also on some animal product. This knowledge is handed down to generation through word of mouth and extensively used for the treatment of common disease. The plants are safe, cheaper, and easily available. Kopergaon Tehsil has enormous biodiversity consisting of a large number of plants, some of which are used for their medicinal value. The objective of this study is to document the traditional medicinal plants used by people of Kopergaon Tehsil of Ahmednagar district (M.S) India.

STUDY AREA

Kopargaon Tehsil situated on the bank of river Godavari. The total area is 725.16 km² lies between 19⁰54'9'' North latitude and 74⁰28'38'' east longitude.

METHODOLOGY

The traditional knowledge about the plant for treating the common disease was collected from peoples, specially traditional medicine practitioners truly helped in gathering information on medicinal uses of indigenous plants. Survey is carried out were identified with the help of flora of Bombay (Cook, 1908), Flora of Maharashtra (Almeidao, 1998) Flora of Ahmednagar District (Pradhan and singh, 1950).

RESULT AND DISCUSSION

The Botanical, Local and Family Name, Habit, Origin, Plant Part used, Ethanobotanical value of forty eight plants are enumerated in table No. 1.

Forty eight plants having ethanobotanical importance are reported. Such studies help to preserve and pass on the traditional ethanobotanical knowledge of the tribules and other ethnic communities to the next generations.

The number of researcher work and studied on ethnomedicinal plants in Maharashtra states of India by Faulk (1958), Petkar *et.al.* (2002), Kunwar and Dawadee (2003), Wabale *et.al.*(2005), Iqbal *et.al.* (2010), Gaykar (2010), Salave *et.al.* (2010), Ahir *et. al.* (2011), Waghchaure *et.al.* (2011), Dhore *et.al.* (2012), Pocchi (2013), Shrirame and Hiwale (2013), Wadekar *et.al.* (2013), Watile (2013), Zingare *et.al.*(2013).

Table No. 1 – Plant of Botanical, Local and Family Name, Habit, Origin, Plant Part used, Ethanobotanical value.

Sr. No.	Botanical Name	Habit	Local Name	Family	Origin	Plant part used	Ethanobotanical Value
1	<i>Abrus precatorius</i> L.	Climber	Gunj	Fabaceae	India	Leaves	Appetizer and mouth ulcer.
2	<i>Abutilon indicum</i> (L.).	Shrub	Karandi / Mudra	Malvaceae	India	Leaves	Regularity in Menstrual Cycle and Piles.
3	<i>Acacia catechu</i> (L.) Willd	Tree	Khair	Leguminosae	southern Asia	Leaves, heartwood	Asthma, cough, leprosy And skin disorder.
4	<i>Acacia nilotica</i> (L) Willd. ex Del	Tree	Babhul	Mimosaeae	Africa	Leaves, Tender, shoot	Tooth pain and toothache
5	<i>Acorus calamus</i>	Herb	Vekhand	Araceae	Europe	Rhizome	Headache
6	<i>Adhathoda Vasica</i> L.	Shrub	Adulsa	Acanthaceae	Asia	Leaves	Cough and asthma
7	<i>Aegle Marmelos</i> L.	Tree	Bel	Rutaceae	India	Leaves	Knee joint pain
8	<i>Agave Americana</i>	Sculent plant	Ghaypat	Agavaceae	Maxico	Leaves	Skin diseases
9	<i>Alium cepa</i> L.	Herb	Kanda	Amaryllidaceae	Asia	Shoots, Bulbs and Onion Seeds.	Hair loss, Diabetes and asthma
10	<i>Alium Sativum</i> L.	Herb	Lahsun	Amaryllidaceae	Central Asia	Shoots, Bulbs	Heart attack, Diabetes and asthma
11	<i>Aloe vera</i> (L) <i>Burm.f.</i>	Sculent plant	Korphad	Liliaceae	Arabia	Leaves	Stomach ache and skin disease
12	<i>Annona squamosa</i>	Shrub	Sitaphal	Annonaceae	West indies	Seed, Leaves and bark	diarrhea, dysentery, Rheumatism
13	<i>Bryophyllum pinnatum</i>	Herb	Panfuti	Crassulaceae	Madagascar	Leaves	Cough, asthma and fever
14	<i>Butea monosperma</i> L.		Palas	Fabaceae	Southeast Asia	Fruit, Leaves, Flower.	Intestinal Worms, Urine stone, Diabetes.
15	<i>Calotropis Procera</i> (L) <i>R. Br.</i>	Shrub	Rui	Apocynaceae	North Africa	Latex, Leaves	Piles
16	<i>Carica Papaya</i> L.	Shrub	Papai	Caricaceae	America	Leaves and Fruit	Skin diseases
17	<i>Cassia auriculata</i>	Shrub	Tarwad	Fabaceae	Asia	Tender shoot and Leaves	Diabetes, joint and muscular pain.
18	<i>Cassia fistula</i>	Tree	Bahava	Fabaceae	Southeast Asia	Leaves	Tooth Pain
19	<i>Cassia tora</i> L.	Tree	Kali Takali	Caesalpinaceae	South Asia	Tender shoot	Eheumatism

20	<i>Curcuma longa L.</i>	Herb	Halad	Zingibaraceae	India	Rhizome	Swelling or Oedma and edematous.
21	<i>Cymbopogon citratus</i>	Herb	Gavati chahaa	Poaceae	India	Leaves	Diarrhea, Fevers, and High blood pressure
22	<i>Cynodon dactylon (L) Pers.</i>	Herb	Haral/ Durva	Poaceae	Africa	Stem with Leaves	Herpes zoster
23	<i>Derris scandens</i>	climbing branched shrub	Gulvel	Fabaceae	Southeast Asia	Leaves and stem	Protein and Blood purification
24	<i>Eclipta alba</i>	Herb	Kala maka	Asteraceae	Southeast Asia	Leaves	Hair growth
25	<i>Ficus racemosa L.</i>	Tree	Umber	Moraceae	Southeast Asia	Latex	Mumps
26	<i>Hibiscus esculentus</i>	Tree	Bhendi	Malvaceae	Africa	Fruits	Diabetes.
27	<i>Hibiscus rosa sinensis</i>	Shrub	Jaswand	Malvaceae	Asia	Leaves and Flower	Diabetes, Hair Problems
28	<i>Jatropha curcus L.</i>	Shrub	Mogali Erand	Euphorbiaceae	tropical America	Tender shoot and Latex	Teeth problems
29	<i>Lantana camara L.</i>	Shrub	Ghaneri	Verbenaceae	America	Leaves	Stomach ache
30	<i>Lawsonia inermis L.</i>	Tree	Mehandi	Lythraceae	Arabian peninsula	Leaves	leg heat and heal cracks
31	<i>Medicago sativa</i>	Herb	Ghas	Fabaceae	south-central Asia	Leaves, Stems and Sprouts	Diabetes, diuretic and ulcer.
32	<i>Mentha arvensis L.</i>	Herb	Pudina	Lamiaceae	Europe	Leaves	headaches, cough and vomiting.
33	<i>Mimosa pudica</i>	Herb	Lajalu	Fabaceae	Brazil	Leaves, Root and Seed.	Piles, Ulcers, Diarrhea.
34	<i>Mirabilis jalapa L.</i>	Shrub	Gulbaksha	Nyctagenaceae	tropical America	Root and Rhizome	Skin disease
35	<i>Ocimum americanum L.</i>	Shrub	Ran tulas	Lamiaceae	America	Leaves	Cough, cold and fever
36	<i>Ocimum tenuiflorum L.</i>	Shrub	Krishna tulas	Lamiaceae	north central India	Leaves	Cough, cold and fever
37	<i>Piper betle L.</i>	Climber	Khauche Pan	Piperaceae	South East Asia.	Leaves	Piles
38	<i>Pongamia pinnata (L) Piperre.</i>	Tree	Karanj	Ceasalpinaceae	Asia	Root and Seed oil	Skin disease, Mice bite and hair problems.
39	<i>Psidium guajava L.</i>	Tree	Peru	Myretaceae	tropical America	Ripen Fruit	Piles
40	<i>Ruta Chalepensis L.</i>		Satapa	Rutaceae	America	Leaveas	Fever
41	<i>Santalum album L.</i>	Tree	Chandan	Santalaceae	Southwest India	Leaves	Hepatitis A and fever

42	<i>Semecarpus anacardium L.</i>	Tree	Bibba	Anacardiaceae	Africa	Seed	Headache, diabetics, cough and stomach disease
43	<i>Spilanthus oleraceae L.</i>	Herb	Akkalkara	Astraceae	Africa	Inflorescence	Increase brain power and cough
44	<i>Syzygium cumini L.</i>	Tree	Jambhul	Myrtaceae	Southeast Asia	Stem bark	Snake bite
45	<i>Tamarindus indica L.</i>	Tree	Chinch	Caesalpinaceae	India	Stem bark	Just burned skin
46	<i>Vitex nirtundo L.</i>	Tree	Nirgudi	Verbenaceae	Southeast Asia.	Leaves	Cough, cold and fever.
47	<i>Withania somnifera L.</i>	Herb	Ashwagandha	Solanaceae	India	Leaves	cold and fever
48	<i>Zingiber officinale L.</i>	Herb	Aal/ aadrak	Zingiberaceae	Southern Asia	Rhizome	Skin diseases

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