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AN ETHNOMEDICINAL SURVEY OF ORCHHA WILDLIFE SANCTUARY REGION OF TIKAMGARH DISTRICT, MADHYA PRADESH, INDIA

JITIN R.1*, SINGH S.P.2 AND NAZ A.1

¹Department of Environment Science & Engineering, Indian School of Mines, Dhanbad- 826004, Jharkhand, India.

²Department of Botany, Dayanand Brajendra Swarup College, Kanpur- 208006, UP, India.

*Corresponding Author: Email- jitin.nature@gmail.com

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Abstract- Ethnomedicinal survey of Orchha Wildlife Sanctuary region of Tikamgarh district (Madhya Pradesh) was carried out during 2009-2010. The information about the medicinal uses of plants was recorded on the basis of personal interviews with traditional healers and old man and women of the society the investigation revealed that 65 plant species belonging 45 families and 57 genera are commonly used in the treatment of various diseases.

Keywords- ethnomedicinal plants, madhya pradesh, orchha wildlife sanctuary, rural, tribes

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Introduction

Angiosperms or flowering plants from the largest group of plant kingdom, including about 411 families (Hutchinson) 8,000 genra and 345000 species. They are considered to be highest evolved plants on the surface of the earth.they are found almost everywhere in each possible type of habitat and climate. They may be annual, biennial or perennial herbs, shrubs, trees, climbers, twiners and lianes.

Ethnobotany deals with the immediate relationship between societies and plants. Medicinal plants are used at the household level to improve the health of the family members. The use of traditional medicines and medicinal plants in most developing countries, as a normative a basis for maintenance of good health, has been widely observed. It has been recognized as a multidisciplinary science comprising many interesting and useful aspects of plant science. Earlier studies showed that nearly one-third of about 15,000 higher plant species are used by the tribes and forest dwellers. These wild plants meet most of the requirements from food to medicine.

Plants role in the maintenance of good health cannot be overemphasized. Studies have shown that medicinal plants play important role in maintenance of good health [1,3]. The bases of many modern pharmaceuticals used today are plants and plants based products [5].

Tribal people have always used Plants for treating a wide spectrum ailment and for preserving stored grains. Roy, et al [6] Made a preliminary work on some medicinal plant among tribes of M.P.

Materials and Methods

Orchha Wildlife Sanctuary, region of Tikamgarh district Madhya Pradesh. Which is located at 25°181 N latitude and 78°361 E longi-

tude [Fig-1].

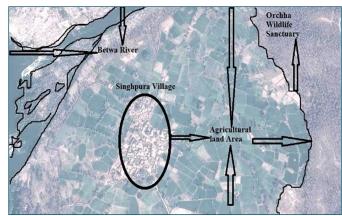


Fig. 1- Map showing the location of the investigation area

The study was conducted during 2009-2010 covering region of Orchha wild life sanctuary Orchha (Madhya Pradesh) total land area of Orchha wild life sanctuary is about 40-45 sq.km. Orchha Wildlife Sanctuary ia very rich in medicinal plant species. Plant species were collected as systematically as possible from the study area. The information was collected during field trips on the basis of interviews with village heads, medicine men and elderly person whose knowledge were widely respected. Immediately after collection, the specimen were identified with the help of floras [2] during the field work, observations and other economic uses of plants were obtained from local local people and compared with the published literature. The collected identified specimens have deposited in the Botany Department, Institute of Basic science, Bundelkhand University, Jhansi (U.P.) India.

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Result and Discussion

During the taxonomic investigation on the medicinal angiosperms of the wild life sanctuary Orchha, a total of 65 species of angiosperms representing of Dicotyledons belongs Monocotyledons [Table-1]. A total of 54 species Dicotyledons 48 genera belonging to 39 families to be used by the rural people of the region under study 11 species

belonging to 9 genera fewer than 6 families were reported [Table-2]. Among the families Solanaceae (6 species), Mimosaceae (5 species), and Euphorbiaceae (4 species) are the dominant families of area [Fig-2]. Correct botanical name with family, local name, habit, status, plant parts and ailments for which the plants have been recorded to be uses are listed in [Table-2].

Table 1- Enumeration of Medicinal Plants

S No	S No Botanical Name Local Name Family Name Habit Part (S) used Aliments							
1	Abutilon indicum (L.)	Kanghi	Malvaceae		, ,	Dysentery, fever, cough, leprosy		
2	Acacia leucophloea (willd.)	Safed kikar	Mimosaceae	Tree		Snake bite, gonorrhea		
3	Acacia nilotica (L.) delile	Babul	Mimosaceae	Tree	•	Diarrhoea, gonorrhea		
4	Achyranthes aspera (Linn).	Chirchitta	Amaranthaceae	Herb		Leprosy, cough, mouth sores, toothache		
5	, , , ,		Acanthaceae	Shrub		Jaundice, fever, antiseptic, cough		
6	Adhatoda vasica (Medikus)	Adusa Bel		Tree				
7	Aegle marmelos (correa)	Kantala	Rutaceae	herb		Diarrhoea, colic, digestive, fever, stomachic		
8	Agave americana (Linn). Ailanthus excels Roxb.	Mahaarukha	Agavaceae Simaroubaceae			Gonorrhoea, stomachic, stomachic, hydrophobia		
9	Albizia lebbeck (L). Benth.			Tree		Asthma, ulcers, dyspepsia		
		Siris Safed siris	Mimosaceae	Tree Tree		Snakebite, piles, diarrhoea		
	Albizia procera (L.) Allium sativum (Linn).	Lahsun	Mimosaceae Liliaceae	Herb		Cough, Cooling Expectorant, diaphoretic, bactericidal		
12	Argemone maxicana (Linn).	Pelicateli	_	Herb	'	Skin disease, piles, diarrhea, dysentery		
13	Asparagus officinalis willd.	Seetmuli	Papaveraceae	Climber		Jaundice, diarrhea, gonorrhea		
			Asparagaceae	Climber		<u> </u>		
	Asparagus recemsus willd.	Satavar	Asparagaceae	Herb		Rheumatism, jaundice, diuretic		
16	Asphodelus tenuifolius (cav.)	Piazi Neem	Liliaceae Meliaceae	Tree		Haemorrhoids, dysentery, colic, jaundice, asthma		
17	Azadirachta indica A. juss		Poaceae			Diabetes, antiseptic, ulcer, skin disease		
18	Bambusa spinosa Roxb. Boerhavia diffusa (Linn).	Bans Santh	Nyctaginaceae	Wood grass Herb		Diarrhoea, ganorrhoea, leprosy Stomachic, diaphoretic		
19	Brassica compestris L.	Rai	Brassicaceae	Herb		Chromic, rheumatism, pneumonia		
20	•		Papilionaceae	Tree	•			
21	Butea monosperma (Lam.) Kuntz.	Palas Moder	•	Shrub		Vaginal disease, hemorrhages, ulcers, piles		
22	Calotropis procera (Ait.)	Madar	Asclepiadaceae Cannabinaceae	Herbs		Asthma, smallpox, sores		
23	Carnabis sativa (Linn).	Bhang	Caricaceae	Tree		Antidiarrhoeal, gonorrhea, diarrhoea		
24	Carica papaya (Linn).	Papita Amaltas		Tree		Diarrhoea, dysentery		
25	Cassia fistula (Linn). Catharanthus roseus (L.) G. Don	Sadabahar	Caesalpiniaceae Apocynaceae	Shrub		Skin disease, pyroderma, leprosy Cancer, low blood presser, diabetes		
26	Citrus medica salib.	Bara nimbu	Rutaceae	Tree		•		
27				Herb		Cooling, piles, fever, dysentery		
28	Curcuma aromatica valeton	Jangali haldi Haldi	Zingiberaceae Zingiberaceae	Herb		Skin disease, anti septic, purifies blood		
29	Curcuma longa L. Cuscuta reflexa Roxb.	Amarbel	Convolvulaceae	Climber		Ulcer, cold, cough, fevers Fever, purifies blood, leprosy		
30	Cynadon dactylon (L.) Pers	Doob	Poaceae	Grass		Diabetes, fever, piles, dysentery		
31	Dalbegia sissoo (Roxb).	Shisham	Fabaceae	Tree		Skin disease, gonarrhoea, stimulant		
32	Datura alba (Linn).	Datura	Solanaceae	Under shrub		Asthma, cough		
33	Datura stramonium (Linn).	Datura	Solanaceae	Under shrub		Anemia, fever, sores, toothache		
34	Emblica officinalis (L.)	Amla	Euphorbiaceae	Tree		Anemia, fever, sores, toothache		
35	Eucalyptus citriodora (Labill).		Myrtaceae	Tree		Diaphoretic, ulcers, antiseptic		
36	Eucalyptus globules (Labill).	Eucalyptus Gum tree	Myrtaceae	Tree		Diaphoretic, digestion, respiratory affections		
37	Euphorbia hirta (Linn.)	Dudhi	Euphorbiaceae	Herb		Cough, breast pain, dysentery, asthma		
38	Ficus bengalensis (Linn).	Bargad	Moraceae	Tree		Skin disease, mouth sores, fever, cholera, gonorrhea		
39		-	Moraceae	Tree				
40	Ficus religiosa (Linn). Gossypium herbaceum (Linn).	Pipal Kapas	Malvaceae	Under shrub	, ,	Cholera, Smallpox, ulcers, atrophy Fever, gonorrhea, madness		
41	Hibiscus rosa sinesis (Linn).	Gurhal	Malvaceae	Shrub	Flower	Diabetes, menstrual, disorders, piles		
42	Jatropha curcas (L.)	Safed arand	Euphorbiaceae	Shrub		Dysentery, urinary, discharges, anemia		
43	Lowsonia ineris (Linn.)	Mehndi	Lythraceae	Shrub		Skin diseases, leprosy, headache		
44	Madhuca indica (Koenig.) macbride		Sapotaceae	Tree	Flower, Leaves, Bark, Seeds	Ulcers, diabetes, colds, snake-bite		
45	Mangifera indica (Linn.)	Aam	Anacardiaceae	Tree		Leucorrhoea, dysentery, ulcers, urinary discharge		
	• , ,							
46	Melia azedarach (L.)	Bakain	Meliaceae	Tree		Leprosy, scrofula, rheumatism		
47	Morus alba (L.)	Sahatuta	Moraceae	Tree		Fever, sore throat, dyspepsia		
48	Musa paradisiaca (Linn.)	Kella	Musaceae	Herb	Whole plant	Diarrhea, colic disease		
49	Nicotiana tobacum (Linn).	Tambaku	Solanaceae	Herb	Leaves	Skin disease, asthma, bronchitis, ulcer		
50	Nyctanthes arbor- tristis (Linn).	Parijatak	Oleaceae	Tree	Leaves, Flower	Cancer ulcers, menorhagia, sores, fever		
51	Ocimum sanctum (Linn).	Tulsi	Lamiaceae	Herb	Whole plant	Malaria fever skin disease, snake-bite		
52	Oxalis comiculata (Linn).	Amrul	Oxalidaceae	Herb	•	Diarrhea, piles, anemia, dysentery		
53	Phoenix sylvestris (L.) Roxb.	Khajur	Palmaceae	Tree	·	Toothache, gonorrhea		
54	Pithecolobium dulce (Roxb.) Benth	•	Mimosaceae	Tree		Digestion, anemia, Skin disease,		
55	Pterocarpus marspium (Roxb.)	Bija	Fabaceae	Tree		Diabetes, leprosy, diarrhea, paresis		
99	. torodarpas marspiam (NOND.)	Diju	· upuocac	.100	Cam, Louves, Dan	Diadotto, ioprooy, diarrica, parosis		

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Table 1- Continue..

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S No	Botanical Name	Local Name	Family Name	Habit	Part (S) used	Aliments	
56	Ricinus communis (Linn).	Arand	Euphorbiaceae	Tree	Seeds, Leaves	Hydrocele, dysentery. Piles, dysuria, Cough, leprosy	
57	Solanum nigrum (Linn).	Makoi	Solanaceae	Herb	Leaves, Seed, Berry	Asthma, pains, piles, urinary discharge, fever	
58	Solanum xanthocarpum (L.)	Kantakari	Solanaceae	Herb	Whole plant	Fever, cough, asthma, cardio tonic, gonorrhea	
59	Tamarindus indica (L.)	Imli	Caesalpiniaceae	Tree	Fruit, Bark	Dysentery, bilious, fever, bleeding piles	
60	Terminalia arjuna (Roxb, exDC.)	Arjun	Combretaceae	Tree	Bark	Ulcer, hypertension, sores, asthma, dysentery	
61	Tinospora cordifolia (Willed.)	Giloy	Menispermaceae	Climber	Root, Stem	Fever, chronic diarrhea, dysentery, diabetes, gonorrhea	
62	Tribulus terristris (Linn).	Gokhru	Zygophyllaceae	Herb	Fruit	Aphrodisiac, kidney stone, diuretic	
63	Withania somnifera (L.)	Asgand	Solanaceae	Shrub	Root	Diuretic, sedative, aphrodisiac, asthma	
64	Zingiber officinale Rosc.	Adrak	Zingiberaceae	Herb	Root	Headache, dyspepsia., fever, cough, sore	
65	Zizphus jujuba (L.)	Ber	Rhamnaceae	Shrub	Fruit	Diarrhoea, ulcer, fever, purify blood	
		No Canal			200s (i)-tr		
	Achyranthes aspera	(Linn).	Az	adirachta	indica A. juss .	Argemone maxicana (Linn).	
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Fig. 2- Photographs of Medicinal plants

Table 2- List of Ethnomedicinal plants found in Orchha wildlife Sanctuary region (MP)

S No	Group	Species	Genera	Family
1	Dicotyledons	54	48	39
2	Monocotyledons	11	9	6

The percentage of Tree species in Orchha wildlife Sanctuary was very highest (44%), second highest population of herbs (30%), third highest population of shrubs (12%) and 6% under shrubs, 5% climbers, 3% grasses. According to the investigation of study area [Fig-3].

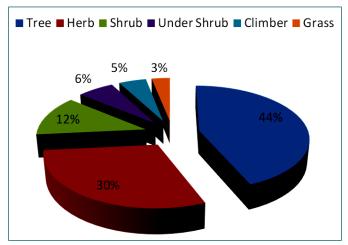


Fig. 3- Percentage distribution of ethnomedicinal plants species in the study area.

Some important medicinal plants are Achyranthes aspera, Argemone maxicana, Azadirachta indica, Boerhavia diffusa, Butea monosperma, Calotropis procera, Datura stramonium, Ficus bengalensis, Ficus religiosa, Phoenix sylvestris and Solanum xanthocarpum used in many types of diseases for treatment.

Conflicts of Interest: None declared.

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