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Ethno botanical observations from Sitanadi Wild life sanctuary Dhamtari, Chattisgarh, India

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Abstract

Tribal belt of Dhamtari Chhattisgarh is dominant with medicinal plants by large numbers of tribal, rural and urban people. Several tribal communities like Kamar, Gond and Baigas inhibit in the area Ethno botanical surveys had been carried out in forest patches of Sita nadi Wild life sanctuary, Dhamtari district Chhattisgarh from 2014-2015. The paper reports were documented of ethno botanical uses of 64 plant species are described in which different parts of plants are used for different purposes for traditional medicine by people etc. 30 Herb, 20 Trees, 12 Shrub, 02 climbers are reported. Family wise distribution of medicinal plants shows Fabaceae is most dominant families with 5 species each and Apocynaceae was co-dominant family with 4 species. The drugs were found to be extracted from whole plant, root, rhizome, leaves, flower and seed of the plant. The aim of the present survey is to highlight that local people knowledge, role in resource management and focus on the diversity of ethnobotanical plants for future use and provide the framework to aware the people how to use plants to solve different type of problem.

Key words: Ethno botany, Tribal, Traditional knowledge, Wild life sanctuary, Dhamtari

Introduction

Our country is commonly called the Botanical Garden of the world, owing to her wealth of herbal medicines. India with its great topographic and climatic diversity has a very rich and diverse flora and fauna. The uses of plants as medicines have been practiced from an ancient time. From around 1500 B.C. Rig Veda is one of the important earliest available documents which emphasizes about herbal medicinal knowledge. Later on Indian herbalists such as Maharshi Charaka and Sushruta worked in search of different herbal plant parts for different aliments of human body. Later on, it is reported that traditional healers use near about 2500 plant species and 100 species of plants serve as regular sources of medicine (**Pei S. J. 2001**).

The central India forms one of the major ecosystems of the India subcontinent and constitutes a large tract of tropical dry deciduous and tropical moist deciduous forest types. The total area of Dhamtari district is 2029 km2 and 305 meters above the sea level. Sita nadi Wild life sanctuary is very Rich of forest in C.G. herb medicine widely used the home of tribal and dwellers. Located in Dhamtari district, Sita nadi Wildlife sanctuary was established in 1974 under Wildlife Protection Act of 1972. Chhattisgarh Dhamtari distict Sita nadi Wild life sanctuary between latitude 20.4554292 North longitudes 81.9752995 North.

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The sanctuary covers an area of 556 sq km, comprising highly undulating hills with altitudes ranging between 327 m to 736 m. The beautiful sanctuary derives its name from the Sita Nadi River that originates in the middle of the sanctuary and joins the Mahanadi near Deok hut. Ethnobotanical survey were conducted in the forest revenue village Ratava, Amjhar, khallari, karhi, Aamgav, Kundei, Nagri, shihva aria Dhamtari Dist Sita nadi Wild life sanctuary. The plant samples were identified with the help of local people, Veidraj and published literatures. Some photographs were also taken during the field survey of plant. Personal interviews were taken with knowledgeable persons and village medicine man. The area of survey of identified belong to Gond, Dev, Halba, Kumar in Nagri, shihva Tahsil in Sita nadi Wild life sanctuary. Medicinal plants play an important role in supporting health care system in India. According to WHO estimate, 80% of population in developing countries relies on traditional medicinal (Bhandary and Chandrasekhar 2002). In India with more than 75% of population residing in rural areas (Anonymous 1991). Chhattisgarh is reach in forest resource about 44% of total area of the state is under forest cover. The Herbal state of Chhattisgarh is situated in Deccan bio-geographical area, houses an important part of the rich and unique diversity. The men are using in various ways, since his existence of his life on earth. They use it in many ways including,





worshipping gods and goddess for the protection and better man of human life (Dixit 1997; Gahte 1998; Pandev 1989; Sinha, 1979).

The tribal tracts are store house of information and knowledge on the multiple uses of plants. The common tribal communities of area are Baiga, Gond, Bharia, Bhils, and Oraon. They are partially or completely dependent on forest product for their survival (Chopra et al., 1969, Jain, 1989). The local people and researchers face the challenging task of not only recording knowledge of plants but also applying the result of their studies to biodiversity conservation and community development (Malik et al, 1990). Among the angiosperm plants, 420,000 flowering plants were reported from the world (Govaerts, 2001) and many tropical species are not yet named.

Material and Methods

In present study the identification of plants, documentation, Ethno-medico observation photography of plant species was done in study areas present was done during 2014-2015. The information was collected tehsil of Nagri (Sita nadi Wild life sanctuary). The information was gathered though questionnaire methods and discussion with tribal, local healers. The herbarium sheets were prepared and identification was done following the standard literature. Ethno botanical knowledge will be documented from various part of Indians subcontinent. Ethno-botanical information collected and taxonomic studies presented here will be gathered with help of tribal people, vaidyas and ethnic people of the area. Information on medicinal Plants, local name, plant parts used and mode of collected during the surveys were identified with the help of published regional flora (Gamble, 1935: Matthew, 1983). All habitats of the study area surveyed carefully. Ethno medicinal data were collected by the suggested methodology. The identification of plant was done with the help of standard published literature viz. The aim of the present survey is to highlight that local people knowledge, role in resource management and focus on the diversity of ethnobotanical plants for future use and provide the framework to aware the people how to use plants to solve different type of problem. Review literature will be helpful in identification of plant species belong to herbs, shrubs, tree and climbers (Shukla et al., Tiwari et al., Saxena 1970; Chopra et al; 1995).

Results and Discussion

The paper reports were documented of ethno botanical uses of 64 plant species are described in which different parts of plants are used for different purposes for traditional medicine by people etc. 30 Herb, 20

Trees, 12 Shrub, 02 climbers are reported. For each species botanical name, family, local name, parts used, methods of preparation, administration and ailments treated are provided. Traditional healers are using these plants to cure many diseases like stomachache, headache, diarrhea, fertility problems, skin problems, cold, fever, cough, toothache, jaundice, wounds, diabetes, asthma, tuberculosis, bone fractures, urinary problems, and piles and poison (snake and scorpion) bites. Family wise distribution of medicinal plants shows Fabaceae is most dominant families with 5 species each and Apocynaceae was co-dominant family with 4 species, Liliaceae, Rubiaceae, Rutaceae Solanaceae (03 species each), Caesalpiniaceae, Euphorbiaceae, Asclepiadaceae, Anacardiaceae, Lythraceae Meliaceae Zingiberaceae, (2 species each), and Labiatae, Hypoxidaceae, Ebenaceae, Dioscorcaceae, Dipterocarpaceae, Lamiaceae, Menispermaceæ, Mimosaceae, Cyperaceae Cucurbitaceae, Acanthaceae, Combretaceae .Bombacaceae , Myrtaceae, Piperaceae, Poaceae Ranunculaceae , Salicaceae, Vitaceae , Verbanaceae, Sterculiaceae ,Sapotaceae, Bixaceae, Asparagaceae, Araceae (1 species each). The first-hand information on the medicinal plants used by the villagers was arranged alphabetically by genus and species name following as.



Fig. 1: showing map of Sitanadi wildlife sanctuary
Dhamtari CG

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Observation -The identified and collected plant samples were arranged and documented according to

their local names, in different tribal and local languages.

Table 1: Showing Ethno Botanical Herbaceous plant in Sita nadi Wild life sanctuary, Dhamtari C.G

S/N	Table 1: Showing Ethno Bo Botanical name	Local name	Family	Habit	Part of	Medicinal use
DIL	Bottiment manie	Zocai name	1 dilling	114010	use	Wedleman ase
1	Acacia nilotica (L.) Willd.	Babul	Mimosaceae	Т	Root	The roots are used against cancers or tumors (of ear, eye, or testicles), tuberculosis and indurations of liver and spleen.
`2	Aconitum ferox wall.ex Ser.	Nagbhasm	Ranunculaceae	Н	Leaves	Powder use in cancer.
3	Adina cord folia Roxb.	Haldu	Rubiaceae	Н	Bark	Stem bark used on fever.
4	Aegle marmelos Linn	Bel	Rutaceae	T	Fruit	Dried powder of Unripe pulp of used to cure diarrhea.
5	Aloe vera Linn.	Ghritkumari	Liliaceae	Н	Whole plant	Prevents kidney stones and protects the body from oxalates in coffee and tea.
6	Andrographis paniculata (Burm.f.) Wall	Kalmegha, kirayat Bhoyleem	Acanthaceae	Н	Whole plant	Leaf used in Maleria disease.
7	Asparagus recemosus Willd.	Satwari	Asparagaceae	Н	Root	Root powder is also useful stomach and ulcer treatment. Juice use in cough, piles, fevers.
08	Azadirachta indica Linn	Neem	Meliaceae	T	Whole plant	Blood morbidity, biliary afflictions, itching, skin ulcer, burning sensation and leprosy. Analgesic, alternative and curative of fever.
09	Bauhinia purpurea Linn.	Kaniar	Fabaceae	Т	Root & Bark	Root bark is mixed with curd and used hemorrhoids. Its pest with dried ginger applied internally in the treatment of goiter.
10	Bixa orellana Linn.	Sinduri	Bixaceae	S	Leaves	Leaves used in baths to relive colic or to get rid of worms in children.
11	Blepharis perum Wight (DC)	Rasnajadi	Sterculiaceae	Н	Leaves	Leaf pest is used wound.
12	Bombax ceiba Linn.	Semal	Bombacaceae	T	Root	Used for surgical dressing in the case of wounds and to increase sexual vigor
13	Buchnania lanzan (Spreng) Roxb.	Char	Anacardiaceae	Т	Stem	Wound, skin disorders, healing of burn injury and antifungal, anti-viral, antibacterial in oil used.

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14	Butea monosperma (Lam.) Taub.	Palas	Fabaceae	Т	Stem	Anti-inflammatory Scorpion String
15	Caesalpinia bonduc (L) Roxb.	Gotarun	Caesalpiniaceae	S	Stem	Seed is used in snak beat place. Seeds yield fatty oil used as a cosmetic and for discharges from the ear.
16	Caesalpinia pulcherniama Linn.	Guletura	Fabaceae	S	Root	The root is given for cholera
17	Carissa spinarum Linn.	Karunda	Apocynaceae	S	Fruit & Root	Rheumatic pain, fever and wound healing.
18	Cassia occidentals Linn.	Kasondi& Kasundi	Caesalpiniaceae	T	Root	Root used in snak beet.
19	Cassia tora Linn.	Charota	Fabaceae	Н	Fruit	Fruits used in treatment of fever.
20	Centratherum anthminticum (Linn.)	Vanjira	Asteraceae	Н	Whole Plant	Plant used for Fevers treatment.
21	Chlorophytum tuberosum (Roxb.) Baker	Safed musli, Dongari bhaji	Liliaceae	Н	Whole Plant	Juice use of Stomach problem,
22	Choroxylon swietenia D.C.	Bhira	Meliaceae	T	Bark	Dried bark smoke is inhaled against cough and cold.
23	Cissus quadrangualaris Linn	Hadjod Popadi	Vitaceae	Н	Whole Plant	Joint in used in leaf pest in bones. Plant pacifies vitiated kapha,
24	Citrus aurantifolium Linn.	Van nimbu	Rutaceae	T	Root& Fruit	Insect beet, malaria, eye disorders inused.
25	Cocculus vilosa D. C.	Patal Kumdha	Menispermaceæ	Н	Root	Rhizome used Blood Quantities high.
26	Cryptolepis buchanani Roem & Schult	Nagbel	Asclepiadaceae	С	Stem	One to two inches long fresh stem pieces stitched in a thin leathery thread are tied around the neck for patient up to 18-21 days to cure jaundice.
27	Cucurbita mexicana Dammann.	Lal kaddu	Cucurbitaceae	С	Stem	Seed used in sex problem in male in active of sperm.
28	Curculigo orchioides (Gaentn).	Kali musli	Hypoxidaceae	Н	Whole Plant	Cough, Asthma, Powder is good sex problem use.
29	Curcuma aromatic Linn.	Ban haldi	Zingiberaceae	Н	Root	Stomach problem, blood purification, Jaggery is mix in Vanhaldi is taken is death of Zoo in hair.
30	Cynoglossum lanceolatum forsk.	Kamraj	Boraginaceae	Н	Root	Root juice used in treatment of fever.
31	Dioscorea alata Linn.	Dang kanda & Chupriala	Dioscorcaceae	Н	Fruit	Filarial and powder is 21 day for taken in eng-(haidrocyl) disease.
32	Diospyros melanoxylon Roxb.	Tendu	Ebenaceae	Т	Bark	The bark is astringent; its decoction is used in diarrhoea. Fruit used in blood purifier.
33	Eclipta prostrate Linn.	Bhring raj	Asteraceae	Н	Leaves	Leaf pest and red Chandan mix

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						take in Typhoid treatment.
34	Emblica officinalis Gaertn.	Amla	Euphorbiaceae	Т	Fruit	Apply ash of Amla fruit with Coconut oil in treatment of Leprosy Skin disease. Dyslipidaemia Oxidative stress, Mouth ulcers, Fevers, Diabetes
35	Flacourtia indica (Burm.F.) merr.	Kakai, Bilangra	Salicaceae	S	Leaves	Juice of fresh leaves and tender stalk used for fever. It can be fermented to make wine.
36	Gymnema sylvestre Roxb Br.	Gumar	Asclepidaceae	Т	Leaves	Leaf used in diabetes.
37	Haldina cord folia Roxb.	Kadam	Rubiaceae	Т	Bark	Stem bark used in a tonic refrigerant, vulnery and ulcer.
38	Hemidesmus indicus Linn.	Anant mool	Apocynaceae	S	Root	Skin diseses gout, syphilis and non-healing wound, soft skin.
39	Hordium vulgare Linn.	Jow	Poaceae	Н	Grain	Apply floor of barley with linseed oil & butter milk.
40	Ixora parviflora Vahl.	Lokhandi	Rubiaceae	Т	Bark	Bark is used as decoction for the ailment of anemia fever.
41	Jatropha podayrica Hook.	Jangli Arandi	Euphorbiaceae	S	Stem	Oil used skin disease and fever.
42	Lantana camara Linn.	Machhimudhi	Verbanaceae	S	Leaves	Leaves juice used for malaria, Chicken fox, Fever, cancer and high blood pressure control.
43	Lawsonia inermis Linn	Mehndi	Lythraceae	S	Leaves	Leaves used of nix material hair abruption control & black color in hair.
44	Madhuca latifolia Gmel.	Mahuva	Sapotaceae	T	Bark	Pest use in bone joint in body.
45	Mariscus sumatrensis (Retz Raynal)	Jangli motha	Cyperaceae	Н	Stem,& Bark	Stem used in wound.
46	Mentha longifolia Linn.	Pudina Mantes	Lamiaceae	Н	Whole Plant	Leaf used in digestive problems,
47	Ocimum sanctum Linn.	Tulsi	Labiatae	Н	Stem	Powder taken in snak beat.
48	Piper nigrum Linn.	Kali mirch	Piperaceae	S	Stem	Cold cough, juice and honey mix in use in piliya disease.
49	Pueraria tuberosa (Willd.) DC.	Patal kumhda& Vidarikanda	Fabaceae	Н	Whole Plant	The plant fruit used in tonic for strength, diuretic and galsctogogue.
50	Rauvolfia serpentina (Linn.) Benth. ex Kurz	Sarpgandha	Apocynaceae	Н	Leaves	Leaf juice take of blood pressure control.
51	Remusatia vivipara (Roxb) Schoot.	Laxman kand	Araceae	Н	Tuber	Tube used of treatment of cancer.
52	Semecarpus anacardium Linn	Bhilawa	Anacardiaceae	Т	Fruit	Nut used in human breast cancer cell treatment.
53	Shorea robusta A.W.Roth.	Sal & Sarai	Dipterocarpaceae	Т	Fruit	Fruits are used for dysentery and scorpion sting.
54	Smilax macrophylla Roxb.	Ramdatoon	Liliaceae	S	Root	The root juice is used in dysentery.

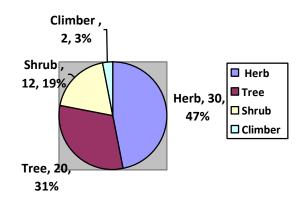
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55	Solanum melongena Linn.	Brinjal	Solanaceae	Н	Whole Plant	Brinjal fruit, Coriander, jira, Ashwagandh mix powder use Ulcer problem and Stomach gases problem
56	Solanum xanthocarpum Linn.	Bhejari, Bhaskatia	Solanaceae	Н	Whole Plant	Fruit juice used in sore throats and rheumatism.
57	Syzygium cumini Linn.	Jamun	Myrtaceae	T	Leaf & Bark	Fruit used stomach problems, swelling, tonic,
58	Taivetia neerifolia Linn	Kaner	Apocynaceae	S	Seed	The oil from kaner oil used treat skin complaints.
59	Terminalia chebula Retz.	Harra	Combretaceae	Т	Fruit	Anticancer, wound healing, Cold Cough use of fruit powder.
60	Tridax procumbens Linn.	Ghamra	Asteraceae	Н	Leaves	Leaves pest used for wound healing.
61	Withania somnifera Linn.	Ashwagandh	Solanaceae	Н	Leaves	Tuberculosis, Fever, and Rheumatic pain
62	Woodfordia floribunda Salist.	Dhawai	Lythraceae	Н	Leaves	Juices of leaves are used in fever and Bilious sickness.
63	Zanthoxylum alatum DC.	Van Dhania	Rutaceae	Н	Fruit & Stem,	The fruit and seed are employed as an aromatic tonic in fiver and dyspepsia.
64	Zingiber zerumbet Linn.	Van Adrak	Zingiberaceae	Н	Root	Rhizome used in cold fever.

Table 2: Distribution of plant as per their habit and presents with image

S.N.	Habit	Number of species
1	Herb	30
2	Tree	20
3	Shrub	12
4	Climber	02
	Total	64



PLANT PARTS USED

Whole plant (12), leaf (12), seed (9), fruit (10), Root (12), Stem part (10), Bark (08), Tuber (1) and Grain (1)



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Table 3 showing the Distribution of plant as per their Species

S\ N	Family Name	Number of species
1	Acanthaceae	1
2	Anacardiaceae	2
3	Apocynaceae	4
4	Araceae	1
5	Asclepiadaceae	2
6	Asparagaceae	1
7	Asteraceae	3
8	Bixaceae	1
9	Bombacaceae	1
10	Boraginaceae	1
11	Caesalpiniaceae	2
12	Combretaceae	1
13	Cucurbitaceae	1
14	Cyperaceae	1
15	Dioscorcaceae	1
16	Dipterocarpaceae	1
17	Ebenaceae	1
18	Euphorbiaceae	2
19	Fabaceae	5
20	Hypoxidaceae	1
21	Labiatae	1
22	Lamiaceae	1
23	Liliaceae	3
24	Lythraceae	2
25	Meliaceae	2
26	Menispermaceæ	1
27	Mimosaceae	1
28	Myrtaceae	1
29	Piperaceae	1
30	Poaceae	1
31	Ranunculaceae	1
32	Rubiaceae	3
33	Rutaceae	3
34	Salicaceae	1
35	Sapotaceae	1
36	Solanaceae	3
37	Sterculiaceae	1
38	Verbanaceae	1
39	Vitaceae	1
40	Zingiberaceae	2

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Some photo graphs of study area & plant









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Butea monosperma (Lam.) Taub. Terminalia chebula Retz.

Mentha longifolia Linn.

Bixa orallena Linn.







Thevetia nerifolia Linn

Buchnania lanzan (Spreng) Roxb

Bombax ceiba Linn









Madhuca latifolia Gmel.

Lantana camara Linn.

Rauwolfia serpentina L

Cissus quadrangularis L







Hemidesmus indicus Linn.

Gymnema sylvestre (Retz.) R. Br

Interview with local people

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