



Medicinal Plants in Bhupdeopur Forest, Raigarh Chhattisgarh in Central India

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Abstract: The present paper reviews plants traditionally used by tribals in the Bhupdeopur forest range of Raigarh district, C.G. India. The main aim of the present study is to focus on the diversity of medicinal plants for further utility and conservation. A survey on medicinal plant diversity was conducted in the Bhupdeopur forest Raigarh district, C.G. India through the period of 2009 to 2011. In present study seven tribes Gond, Oraon, Kamwer, Dhanwar, Sanwara, Bhaina and Khadiya have been considered for Ethnobotanical studies. After field survey and interview with the tribal people of the surveyed area, observed medicinal plants were listed followed by botanical name, vernacular name, family, habit, part used and uses with the help of available literature. Total of 122 medicinal plant species belonging to 49 families were recorded which indicate the heterogeneous floristic composition in the Bhupdeopur forest.

Keywords: Medicinal plants; medicinal use; Biodiversity; floristic composition.

Introduction

The forest ecosystems are vital in terms of tree species growing. Tropical forests are highly diverse due to species interaction and niche variation, which is a result of favourable climatic (Ojo and Ola-Adams, 1996) and edaphic conditions. The study of vegetation wealth and the component floristic elements found within a region has assumed great relevance in biodiversity studies.

Medicinal plants are the plants with potential capacity for treatment of varied diseases and are used by people from past (Rawat and Choudhary, 1998). Man has been utilizing plants for medicinal purpose since long ago. Significant importance towards health and for economical value, sustainable utility, conservation their floral assessment and documentation is essential. India is a rich diversity centre for medicinal and aromatic plants. Around 45,000 plant species, nearly 15,000 plants are used for their specific medical value (Pei, 2001). Due to less side effect and rich potential herbal medicines are under highly demand in the world.

The distribution pattern of medicinal plants depending on their generic makeup, related en-

vironment (Soil, Temperature, water etc) and geographical situation, seasonal variation in plant composition and their biomass was studied by (Singh, 1967) and forest vegetation study was carried by (Singh and Singh, 1987).

Medicinal plants and their utilization is increasing day by day. Highly demand rate of medicinal plants, their cultivation, conservation and export are important segments toward medicinal plants fields. Plants are used as medicine by tribal and rural people since past. Around 80% populations over the world use medicinal plants to cure different health related problems (Kamboj, 2000).

Destruction of natural habitat by human activity or by nature, over exploitation, continuous excess utilization etc causes threats to biological species. Diversity of the species is the most striking feature of life, which plays a role in complexity and intactness of natural ecosystem (Mohammad et al., 2000). Biodiversity is represented by whole remarkably group of the species for sustain utilization and conservation of medicinal plants, the documentation is needful aspects synthetic drugs leading to increase disease and disorders day by day.

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India is also one among the 12 mega biodiversity centres in the world including around 47,000 plant species. India is well known as rich centre of plants diversity among the world. Medicinal plants utility trends have been increased due to their much efficacy, safe mode for utilization and less side effect various parts of the Medicinal plants are used for different purpose and are also a source of economic growth to local peoples (Samant et al., 1997). The present research is carried out in Bhupdeopur Reserve forest Raigarh (Chattisgarh) to explore the diversity as no systematic documentation of medicinal plants of this area have been made so far. The ethnobotanical study of the selected study area was done following survey of study area in which questionnaire was filled by the tribal and personal interviews were organized. Identification and collection of plants specimen preparation and collection of plants taking digital photographs of herbarium, taking digital photographs of plants, identification of plants was done with the help of flora (present study was carried out during the year 2009-2011 adopting the methods of workers like Jain (1987-1988) and Jain & Singh (1997).

The ethnobotanical knowledge was gathered from Baigas, Baidyas knowledgeable persons, experienced people, medicine men and heads and local inhabitants of the village, who have knowledge of plants for health and livelihood security. The first hand information was recorded during the field visits to the study area. In field visit information was collected average of two months for each village. Field work was done as per planned schedule of field visit (Table 6). Information collected through questionnaire and personal interview on the spot was the basic sourced of the knowledge in the present study. Some ethnobotanical studies were made by Ayyanar and Ignacimuthu (2005), Bala Krishnan et al. (2009), Patel (2012). This paper is an attempt to document the medicinal plants distributed in Bhupdeopur Reserve forest wildy.

Material and methods

Present research was conducted to examine plant diversity in Bhupdeopur Reserve forest

Raigarh district, C.G. India. The study area is divided in to 4 circles named Naharpali, Kerajhar, Dalari and Khairpur each circle is further divided in to at least 4 beats total 20 beats are there which contain 16 villages. Where present study was conducted. The study site is spread at about 8 to 25 km. of North west of Raigarh City. The area comes under Raigarh forest range of Raigarh forest division within Raigarh and Kharsia administrative block. The total area of the forest is 4451.6 ha. In which 4300.4 ha. Area is reserved forest and 151.2 ha area is protected area. Survey was made for collection of plants (Trees, Shrubs and herbs), their identification followed by Botanical name, family Habitat, Parts used, uses etc.

The forest was periodically visited for collection of plants. The plants were freshly collected and their digital photographs were also taken and have been identified in the laboratory by literatures including flora / Encyclopaedia like De, L.C. (2005). Hooker (1875), Sharma R (2003), Trivedi P. C. (2006) and Pullaih T. (2006), further Confirmation was made with the help of experts of the fields. Plants species were also confirmed by comparing with authentic specimens housed in the Central Institute of Medicinal and Aromatic Plant Lucknow and BSI central national herbarium Kolkata.

Result and discussion

On the basis of field survey on medicinal plants it is resulted that 122 species under 49 families showed their presence in the Bhupdeopur forest which were collected identified and listed.

Recorded medicinal plants showed different habit (Herb shrub and /Trees). The plants are arranged following their Botanical name. Family Habit, parts used, use and Propagation shown in. Table 1 and Table 2 indicating summary of Medicinal plants in/ Bhupdeopur Reserve forest. (Propagation Method of different Medicinal plants are cited in Table 3, Many of the observed Medicinal plants are commonly cultivated in the country.

Table 1: Summary of medicinal plants in the, Bhupdeopur forest Raigarh district, C.G. India.

S.NO.	Family	Total Plant Species	Herb	Shrub	Tree
1.	Fabaceae	16	04		
2.	Araceae	02	02	03	09
3.	Amaranthaceae	02	02		
4.	Acanthaceae	03	01	02	
5.	Alangiaceae	01			01
6.	Myrtaceae	03			03
7.	Asteraceae	03	03		
8.	Liliaceae	04	02	02	
9.	Papaveraceae	02	01	01	
10.	Meliaceae	02			02
11.	Nyctagianaceae	02	01	01	
12.	Anacardiaceae	03			03
13.	Caesalpinaceae	04	01	01	02
14.	Asclepiadaceae	03	02	01	
15.	Vitaceae	01	01		
16.	Rutaceae	02			02
17.	Zingiberaceae	02	02		
18.	Hypoxidaceae	01	01		
19.	Convolvulaceae	03	03		
20.	Poaceae	01	01		
21.	Apiaceae	02	02		
22.	Solanaceae	03	03		
23.	Dioscoriaceae	02	02		
24.	Euphorbiaceae	07	05		02
25.	Moraceae	04			04
26.	Verbenaceae	03	01	01	01
27.	Sterculiaceae	02	01	01	
28.	Malvaceae	02	01	01	
29.	Apocynaceae	02			02
30.	Oleaceae	01		01	
31.	Lythraceae	02		02	
32.	Sapotaceae	01			01
33.	Rubiaceae	05			05
34.	Lamiaceae	03	03		
35.	Oxalidaceae	01	01		
36.	Plumbaginaceae	01	01		
37.	Myrtaceae	03			03
38.	Punicaceae	01			01
39.	Dipterocarpaceae	01			01
40.	Combretaceae	04	01		03
41.	Menispermaceae	01		01	
42.	Graminae	01	01		
43.	Rhamnaceae	02			02
44.	Celastraceae	01	01		
45.	Polipodiaceae	01	01		
46.	Ebenaceae	02	01		01
47.	Moringaceae	01			01
48.	Crassulaceae	02	02		
49.	Cyperaceae	01	01		
Total		122	55	18	49

Table 2: Medicinal plants in the, Bhupdeopur forest Raigarh district, C.G. in Central India.

S.No.	Botanical Name	Vernacular name	Family	Habit	Part used	Use	Propagation
1	<i>Abrus precatorius</i> , Linn.	Ratti	Fabaceae	Herb / climber	Seed	Snake bite	Seed
2	<i>Acacia catechu</i> (L.F.) Willd.	Katha	Fabaceae	Tree	Bark Heart-wood	Stomach pain, cough & cold, toothache	Seed
3	<i>Acacia nitotica</i> (L) willd.	Babool	Fabaceae	Tree	Leaves pods flowers Whole plant	Eye ailments, cough, toothache, jaundice, itching Headache, facial paralysis, epilepsy, easy delivery asthma, diarrhoea, fever, worms.	Seed
4	<i>Acorus calamus</i> Linn.	Bach	Araceae	Herb	Rhizome	Abdominal disorder, piles, eye element cough skin problems delayed delivery	Rhizome
5	<i>Achyranthes aspera</i> Linn.	Latjira	Amaranthaceae	Herb	Root, Leaves Flowers	Eye ailments, (Conjunctivitis), Swollen eyes, Cataract) cough, skin, problem (Itching) stomach pain, normal delivery Fever, Headache, eyre disorder	Seed
6	<i>Adhatoda vasica</i> Linn.	Adusa	Acanthaceae	Shrub	Leaves whole plant Root	cough, toothache, asthma, diarrhoea, urinary problems leucorrhoea piles eczema epilepsy, Jaundice regulation of menstrual cycle easy delivery	Seed
7	<i>Alangium salvifolium</i> (L.F.) Wang.	Thekajani	Alangiaceae	Tree	Root Fruits Seeds Leaves	Scorpion bite, asthma, constipation, fever, snake bite, diarrhea Wounds Arthritis	Seed
8	<i>Albizia lebbek</i> Benth	Siris	Fabaceae	Tree	Flowers Seeds Bark Root Stalk	Migraine, male impotency, piles, hydrocoel, cut & wound, scorpion bite,(antidote) toothache	Seed
9	<i>Aloe vera</i> Linn.	Ghritkumari	Liliaceae	Shrub	Leaves	Eye ailments, Asthma, Burns, Headache, Fracture, Cuts & Wounds	Leaf
10	<i>Aegle marmelos</i> (L) Core.	Bel	Rutaceae	Tree	Root Leaves Fruits	Headache, cough, cataract, chest pain, piles, dysentery, stomach pain, mouth ulcer, fever, weakness	Seed
11	<i>Amaranthus viridis</i> (Hook)	Chaulai Bhaji	Amaranthaceae	Herb	Leaves	Blood purification, Eye Ailments	Seed
12	<i>Amorpbophyllus paeonifolius</i> Dennst.	Kand	Araceae	Herb	Rhizome	Piles	Rhizome
13	<i>Anacyclus pyrethrum</i> D.C.	Akarkara	Asteraceae	Herb	Root Whole plant	Headache, toothache, fever, stomach problems, paralysis, Menstrual problems, facial paralysis, heart disease	Seed
14	<i>Andrographis paniculata</i> Nees.	Bhuileem	Acarthaceae	Herb	Leaves Roots Whole plant	Worms,(Antihelmentic) joint pain, Stomach pain, Malaria, jaundice	Seed
15	<i>Asparagus racemosus</i> Willd.	Satawar	Liliaceae	Herb Climber	Fresh root Whole plant Leaves	Headache Cough, asthma, diarrhoea, impotency urinary disorders, weakness, piles fever, Wounds, anti-toxic	Seed
16	<i>Argemone maxicana</i> (L.)	Pilikateri	Papaveraceae	Herb	Root Whole plant Yellow milk oil Bark Leaves	Asthma Cough, urinary disorders, abdominal pain , ulcers, Jaundice Male Impotency Ring worm	Seed
17	<i>Azadirachta indica</i> A. Juss.	Neem	Meliaceae	Tree	Bark Leaves Seeds	White discharge, vomiting, malaria, heart ailments, eczema, tooth ailments, ear ache, arthritis	Seed

18	<i>Bauhinia retusa</i> Roxb.	Gobi	Leguminosea	Tree	Fruits Flowers	Itching, headache, Diarrhoea Paralysis	Seed
19	<i>Bauhinia variegata</i> Linn.	Kachnar	Fabaceae	Herb	Bark Bark Buds	Stomatitis intestinal worm, diarrhoea, piles, constipations wound, (antiseptic)	Seed
20	<i>Blepharispermum subsessile</i> (D.C.)	Rasna Jadi	Sterculiaceae	Herb	Seeds fruits	Wound (antiseptic)	Seed
21	<i>Boerhavia diffusa</i> Linn.	Punarva	Nyctaginaceae	Herb	Root leaves	Dysuria, Delivery Problem Kidney stone, arthritis	Seed
22	<i>Buchania lazari</i> Roxb.	Char	Anacardiaceae	Tree	Bark Fruit Flowers	Jaundice, Nasal bleeding, hydrocele, oedema, Dysuria	Seed
23	<i>Butea monosperma</i> (Lamk) Taub.	Palas	Fabaceae	Tree	Root Gum Seed	Eye disorders, Cataract, Nightblindness, epilepsy, Diarrhoea, wound, Abdominal worm, eczema, arthritis	Seed
24	<i>Cassia occidentalis</i> L.	Kasmard	Caesalpineaceae	Shrub	Leaves Whole plant, Root Seed	Eye disorders, ear problems, jaundice, worm, easy delivery fever epilepsy, Male Impotency, weakness, scorpion bite, eczema.	Seed
25	<i>Cassia tora</i> Linn.	Chakravada	Caesalpiniaeae	Herb	Seed Leaves Whole plant Root Flowers	Migrain cough Ring worm, Diarrhoea, wound, swelling, eczema, fever, diabetes, urinary disorders	Seed
26	<i>Calotropis procera</i> Aiton.	Aak	Asclepiadaceae	Shrub	Root bark Yellow leaves White flower	Cough & cold, eye ailments joint pain (Arthritis) earache toothache (milk), epilepsy	Seed
27	<i>Cassia fistula</i> Linn	Amaltas	Fabaceae	Tree	Root pods	Itching, fever, Tonsil, Easy delivery	Seed
28	<i>Chlorophytum tuberosum</i> Baker	Safed Musli	Araceae	Herb	Root	Male Impotency, Tuberculosis	Seed
29	<i>Clerodendrum serratum</i> (L.) Moon.	Bharangi	Verbenaceae	Shrub	Root Seed leaves	Fever, headache, asthma, Swelling, eye problem, worm, boils wound	Seed
30	<i>Celastrus paniculatus</i> (Willd.)	Kujur	Celastraceae	Shrub	Root Oil Bark Seed Stem	Epilepsy, headache Joint pain, rheumatism, cough, tuberculosis, chest pain, Abortion	Seed
31	<i>Cissus quadrangularis</i> (L.) Wall	Hadjod	Vitaceae	Herb	Stem	Fracture	Seed
32	<i>Citrullus colocynthis</i> (L.) Schrad.	Indrayan	Rutaceae	Tree	Fruit	Stomach pain, swelling, scorpion bite, snakebite (antidote)	Seed
33	<i>Citrus aurantifolium</i> (L.) Burm. F.	Van Nimbu	Rutaceae	Tree	Roots Fruits Root	Headache, fever, malaria, insect bite, Diarrhoea, Cholera, obesity, worm, jaundice, vomiting, abdominal pain, eye disorders. Itching.	Seed
34	<i>Crotalaria sericea</i> Retz.	Bansan	Leguminosea	Shrub	Whole plant	Jaundice	Seed
35	<i>Colocasia esculenta</i> (L.) Schott.	Kochai	Araceae	Herb	Corm Leaves	Alopecia, Constipation, weakness, Leaves are used as vegetable.	Corm
36	<i>Convolvulus microphyllus</i> Sieb. ex Spreng	Shankhapushpi	Convolvulaceae	Herb	Whole plant	Epilepsy, improving memory power, headache vomiting, diabetes, sun stroke, hypertension	Seed
37	<i>Costus speciosus</i> Retz.	Keokandh	Costaceae	herb	Root	Headache, weakness	Tuber
38	<i>Curculigo orchioides</i> Gaertn	Kali Musli	Hypoxidaceae	Herb	Root/Rhizome	Sexual disorders, joint pain (Arthritis), piles jaundice, asthma, vomiting, diarrhoea	Seed
39	<i>Curcuma amada</i> Roxb	Jangli Haldi	Zingiberaceae	Herb	Rhizome Root Branches Rhizome	Jaundice, conjunctivitis, cough, cold, piles, stomach pain, diarrhoea, urinary disorders, hydrocele,	Rhizome

40	<i>Cuscuta reflexa</i> Roxb.	Amarbel	Convolvulaceae	Herb / climber	Whole plant	Respiratory disorders, eye problem, (Conjunctivitis, Swelling of eyes) stomach problem, piles, itching, ulcers, wound.	Seed
41	<i>Cynodon dactylon</i> Linn.	Doobghas	Poaceae	Herb	Whole plant Leaves	Headache, epilepsy, nasal bleeding, mouth problem, diarrhoea, urinary problems, Leucorrhoea, piles, malaria, eczema, fever, eye problem, (pain, excessive pus formation)	Seed
42	<i>Centella asiatica</i> (L) Urban	Brahmi	Apiaceae	Herb	Whole plant Leaves	For memory powers, (enhance memory) Insomnia, (Sleeplessness) Anxiety for hair (Checks hairfall) dysentery, chicken pox, Cures B.P. problems	Seed
43	<i>Dalbergia sissoo</i> Roxb	Shisham	Fabaceae	Tree	Leaves	Eye ailments, leucorrhoea.	Seed
44	<i>Datura Stramonium</i> Linn.	Datura	Solanaceae	Herb	Oil Extract Seeds leaves branches, Fruits whole plant Tuber	Skin disorders, (itching, burning sensation, helps heal ulcer) fever Headache, Male impotency, eye problems, (Pain in eyes) asthma, arthritis	Seed
45	<i>Dioscorea pentaphylla</i> Linn.	Dukarkand	Dioscoriaceae	Herb / climber	Tuber	Piles, Dysentery	Tuber
46	<i>Dioscorea deamona</i> Roxb.	Koliyapad	Dioscoriaceae	Herb	Roots & leaves	Painful menses & excessive blood discharge	Tuber
47	<i>Diospyros melanoxylon</i> Roxb	Tendu	Ebenaceae	Tree	Fruits & Leaves	Dysentery, Bad Breath	Seed
48	<i>Diospyros Montana</i> Roxb	Bistendu	Ebenaceae	Herb	Bark	Bodyache	Seed
49	<i>Dryopteris filixmas</i> L.	Fern	Polypodiaceae	Herb	Fruit	Anthelmintic	Seed
50	<i>Emblia officinalis</i> Gaertn.	Amla	Euphorbiaceae	Tree	Rhizome Fruits Seed leaves	Diabetes, eye ailments, for hair, constipation, (antidiarrhoeal) arthritis, fever, Itching	Seed
51	<i>Eranthemum pulchellum</i> L.	Putus	Acanthaceae	Shrub	Whole plant	Epilepsy, digestive	Seed
52	<i>Euphorbia hirta</i> Linn.	Dudhi	Euphorbiaceae	Herb	Leaf	Fever, boil, colic, antiasthmatic, cough, dysentery	Seed
53	<i>Euphorbia nerrifolia</i> L.	Sehund	Euphorbiaceae	Herb	Root Leaves	Milk secretion, dysentery, cough, anti asthmatic	Seed
54	<i>Euphorbia thymifolia</i> Linn.	Choti Dudhi	Euphorbiaceae	Herb	Root Milk Juice	Cough, Intestinal worms Toothache Piles, Ulcer, Eye disorders	Seed
55	<i>Evovulus alsinoides</i> Linn.	Shankpushpi	Convolvulaceae	Herb	Sweet oil Whole plant	Diabetes, diarrhoea, Asthma	Seed
56	<i>Ficus benghalensis</i> Linn.	Bargad	Moraceae	Tree	Whole plant	Epilepsy (Brain tonic), for improving memory power, headache, vomiting, diabetes	Seed
57	<i>Ficus glomerata</i> Roxb	Gular	Moraceae	Tree	Bark, Prop roots	Diabetes, Toothache	Seed
58	<i>Ficus racemosa</i> L.	Dumar	Moraceae	Tree	Milky latex Fruits Milk fresh root Fruits Leaves	Piles, asthma, Urinary problem, Leucoderma, diabetes. Dysentery, ulcer, fever, stomach pain, Piles, Leucorrhoea	Seed
59	<i>Ficus religiosa</i> Linn.	Peepal	Moraceae	Tree	Bark Roots (Milk) Leaves Seeds Fruits	Cut & wounds, cough & cold, Eczema, toothache, earache, jaundice, stomach pain, swelling, Leucorrhoea Male impotency	Seed
60	<i>Gardenia turgida</i> Roxb.	Thandla	Rubiaceae	Tree	Bark, Flowers	Piles	Seed
61	<i>Glycyrrhiza glabra</i> L.	Mulethi	Papilionacea	Herb	Whole plant	Headache, eye problem, epilepsy	Seed

62	<i>Gloriosa superba</i> Linn.	Jhagda phool	Lilicacea	Climber	Roots, Leaves Flowers	improves lactation, dry cough, ulcer, jaundice Epilepsy, painful menses & Ex- cessive blood discharge, snake- bite	Seed
63	<i>Gmelina arborea</i> Roxb	Ghamghar	Verbenaceae	Tree	Soft leaves roots fruits Bark	Cut & wound Worms Weakness, For scorpions, and snakes (anti- dote)	Seed
64	<i>Hemidesmus indicus</i> (Linn)	Anantmool	Asclepiadaceae	Herb / climber	Root	ulcer, stomach pain. Asthma, bronchitis, burning, diarrhoea, dysentery, Leucoderma	Seed
65	<i>Helicteres isora</i> Linn	Aaithi	Sterculiaceae	Shrub	Bark, fruits, seeds, leaves, stem, roots fruits	Skin disease, fever Dysentery, Eczema, Leucorrhoea Stomach pain	Seed
66	<i>Hibiscus rosa sinensis</i> L.	Gudhal	Malvaceae	Shrub	Roots Flowers	Cough & cold, stomach pain, male Impotency, swelling, ulcer	Seed
67	<i>Holorrhoea antidyserterica</i> Well.	Koriya	Apocynaceae	Tree	Leaves Bark Flowers	Diarrhoea, toothache, piles, dia- betes, dysentery, urinary disor- ders	Seed
68	<i>Jasminum grandiflorum</i> L.	Chameli	Oleaceae	Shrub / creeper	Leaves Roots flowers oil	Headache, ear problems, intesti- nal worms, ulcer, mouth diseases & fever facial paralysis, wound, stomach pain, impotency, skin diseases	Seed
69	<i>Kalanchoe laciniata</i> (L.) D.C.	Pusudi	Crassulaceae	Herb	Whole Plant	Asthma, Insecticide, Tonic, vom- iting, Snake Bite, (Antidote) cough, burn, Diarrhoea, Analge- sic, Piles	Leaf
70	<i>Lannea grandis</i> Dennst. Engler	Modga	Anacardiaceae	Tree	Bark		Seed
71	<i>Lawsonia inermis</i> Linn.	Mehendi	Lythraceae	Shrub	Leaves Seeds	Jaundice, headache, stomatitis, eye disorder, Diarrhoea burns	Seed
72	<i>Madhuca latifolia</i> Gmel.	Mahua	Sapotaceae	Tree	Bark, flowers, fruits, leaf	Wound (antibacterial)	Seed
73	<i>Mangifera indica</i> Linn.	Aam	Anacardiaceae	Tree	Ripen fruits leaves seed	Cough & cold, diabetes, vomit- ing, dysentery. (Anti dysenteric) worms	Seed
74	<i>Melia azadirachta</i> L.	Mahanecm	Meliaceae	Tree	Flower bark fruits seeds leaves	Headache, stomatitis, internal worm, fevers, eye problems, piles Stone in urinary Bladder, wound, itching, swell- ing	Seed
75	<i>Mimosa pudica</i> Linn.	Lajwanti	Fabaceae	Herb	Root Leaves	Cough, swelling wound, diabe- tes, bleeding, diarrhoea Jaundice, excessive urination indigestion, piles	Seed
76	<i>Moringa oleifera</i> , Lamk.	Munga	Fabaceae	Tree	Leaves Bark Root	BP, Anaemia, Sore Eyes, boils/Wounds, Headache Intestinal Worms, Cough, Asthma, Gum Problems, Abortion Fever	Seed
77	<i>Mitagyna parviflora</i> L.	Bhilari	Rubiaceae	Tree	Bark roots		Seed
78	<i>Mucuna pruriens</i> Baker non DC	Kewanch	Leguminosae	Climber	Seeds & leaves	Cuts & wound Worms	Seed
79	<i>Mycrotyloma uniflorum</i> L.	Kulthi	Leguminosae	Climber	Seeds	Kidney stone	Seed
80	<i>Nyctanthes arbortritis</i> Linn.	Harsringar	Nyctaginaceae	Shrub	Stem	Fracture	Seed
81	<i>Oscimum basilicum</i> Linn	Vantulsa	Lamiaceae	Herb	Leaves Roots, Seeds	Giddines, Cough & Cold, bron- chitis	Seed

82	<i>Osmium americanum</i> Sims.	Jangli Tulsi	Lamiaceae	Herb	Leaf whole plant	Cold, cough, bronchitis, destroying bacteria and insect. (Antibacterial) stimulant	Seed
83	<i>Osinum sanctum</i> Linn.	Tulsi	Lamiaceae	Herb	Leaves	Skin disorders	
84	<i>Oxalis corniculata</i> L.	Khattibuti	Oxalidaceae	Herb	Whole plant leaves	Cold, cough, bronchitis Headache Gum problems, tooth powder, stomach problems, piles diarrhoea, fever, wound	Seed Seed
85	<i>Pangamia pinnata</i> Mers L.	Karanj	Fabaceae	Tree	Seed	Skin disease, (Leucoderma), Parasiticide	Seed
86	<i>Peucedanum nagpurensis</i> CB Clark	Tejraj	Apiaceae	Herb	Leaves	Sexual disorders	Seed
87	<i>Plumbago zeylanica</i> L.	Chitwar	Plumbagenaceae	Herb	Whole plant Bark	Nasal bleeding, itching, piles, easy delivery, gastric Problems, arthritis fever, skin problems, wounds	Seed
88	<i>Phyllanthus niruri</i> Hook.	Bhuiamla	Euphorbiaceae	Herb	Whole plant	Dysentery, jaundice	Seed
89	<i>Phyllanthus fraternus</i> Webster	Chhoti Amla	Euphorbiaceae	Herb	Leaves	Malaria; abdominal pain	Seed
90	<i>Psorelia corylifolia</i> L.	Bakuchi	Fabaceae	Shrub	Whole plant driedfruit	wound, bronchitis, diabetes, syphilis, diarrhoea, liver related problems	Seed
91	<i>Psidium guajava</i> Linn.	Amrood	Myrtaceae	Tree	Leaves seeds root	Diarrhoea bronchial asthma, jaundice; piles; tooth infection	Seed
92	<i>Pterocarpus marsupium</i> Roxb.	Bija	Sterculiaceae	Tree	Leaves fruit root seeds wood	Joint pain; toothache mouth ulcer, cough; dysentery heart ailment	Seed
93	<i>Pueraria tuberosa</i> (Roxb.ex.Willd) D.C	Vidarikand	Fabaceae	Creeper / Climber	Tuber fruits leaves flowers	diabetes diarrhoea dysentery	Seed Tuber
94	<i>Punica granatum</i> L.	Anar	Punicaceae	Tree	Leaves fruits root peel buds Seeds fruits	Piles, controls excessive bleeding in menstrual cycle manliness potency Eczema toothache	Seed
95	<i>Randia dumetorum</i> Linn.	Morba	Rubiaceae	Tree	Leaves root peel buds Seeds fruits	Eye disorders, ear disorders, headache, heart problem, cough, asthma, diarrhoea, jaundice, worm, vomiting, piles, antidote, ulcer	Seed
96	<i>Ricinus communis</i> L.	Arand	Euphorbiaceae	Tree	Seeds (Oil) Leaves	Cough & cold, migraine	Seed
97	<i>Roulfia serpentina</i> Benth.ex Kurz.	Sarpagandha	Apocynaceae	Herb	Root	Eye disorders, stomach disorders, intestinal worm, jaundice, cough, piles, regulation of menstrual cycle, anti toxic	Seed
98	<i>Rubia cordifolia</i> Linn.	Manjita	Rubiaceae	Leaves	Herb	Blood pressure, malaria, ulcer, snake bite joint pain, fever, dysentery	Seed
99	<i>Shorea robusta</i> Gaertn.	Sal	Dipterocarpaceae	Tree	Resin	Scorpion bite (antidote)	Seed
100	<i>Semicarpus anacardium</i> Linn.	Bhelwa	Anacardiaceae	Tree	Root, Bark seed	Dysentery	Seed
101	<i>Sesbania grandiflora</i> (L.) Poir.	Agastiya	Fabaceae	Tree	Leaves flowers Bark	Tuberculosis Hydrocele Epilepsy, Migraine, cold, constipation	Seed
102	<i>Sida cordifolia</i> Linn.	Bariyari	Malvaceae	Herb	Root leaves wholeplant	eye problems, Fever, stomach pain / Abdominal pain, leucorrhoea	Seed
103	<i>Sphaeranthus Indicus</i>	Mundi	Asteraceae	Shrub	Whole plant	Arthritis, induces Labour pain, Dysentery conjunctivitis, Boils & tumors, Bronchitis, Facial paralysis	Seed
						Headache, Eye problems, worms,	Seed

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104	<i>Smilax macrophylla</i> L.	Ramdatoon	Liliaceae	Shrub/Climber	Fruit Root leaves Leaves	Arthritis, Heart ailments, Diarrhoea, piles, Leukorrhoea	Seed		
105	<i>Solanum nigrum</i> L.	Makoi	Solanaceae	Shrub	Root Fruit Leaves Whole plant	Eye disorder, Ear pain, mouth problems, acidity, heart problem, Kidney problem, vomiting Tooth problem, Paralysis	Seed		
106	<i>Spilanthes oleiracea</i> L.	Akarkara	Asteraceae	Hurb	Flower		Seed		
107	<i>Syzygium cumini</i> L.	Jamun	Myrtaceae	Tree	Seed leaves fruits	Loose motions cataract, Ear problem, Syphilis, vomiting, eye disorders, Piles, Jaundice, tooth problems, diabetes, Liver swelling.	Seed		
108	<i>Tamarindus indica</i> Linn.	Imli	Caesalpinaceae	Tree	Leaves seeds bark	Stomach pain, Scorpion bite, scabies	Seed		
109	<i>Terminalia arjuna</i> Roxb.	Kahua	Combretaceae	Tree	Bark Heart wood leaves	Jaundice, Body ache, dysentery, Joint pain, Diabetes, Headache, Stomach pain, vomiting, fever, leucorrhoea, Earache.	Seed		
110	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Baheda	Combretaceae	Tree	Fruit Bark	Cough cold, fever, chest pain, Dysentery, Eye ailments	Seed		
111	<i>Terminalia chebula</i> (Gaertn) Retz.	Harra	Combretaceae	Tree	Fruit	Vomiting, Fever, Diarrhoea, Cough, Jaundice Tooth ailments, migraine, Giddiness, Piles.	Seed		
112	<i>Tephrosia purpurea</i> (L.) Pers.	Sarponkh	Fabaceae	Herb	Root, Bark leaves Whole plant	Toothache and Pyorrhoea, Stomach pain, piles, Jaundice	Seed		
113	<i>Tinospora cordifolia</i> (Willd.) Hook. F & Thoms.	Giloy	Menispermaceae	Shrub creeper	Whole plant	Eye problems, vomiting, Jaundice, piles, fever, urinary disorders, Arthritis.	Seed		
114	<i>Thevetia peruviana</i> (Pers.) Schum.	Kaner	Apocynaceae	Tree	Flower Root leaves	Headache, Eye disorder, piles, syphilis, paralysis, snake bite, Joint pain, itching	Seed		
115	<i>Vetiveria zizanioides</i> L.	Birni	Graminae	Herb	Leaves	Snakebite(Antidote)	Seed		
116	<i>Vitex nigundo</i> L.	Nirgundi	Verbenaceae	Shrub	Root, leaves whole plant	Itching, Joint pain, Cuts & wounds Swelling, Arthritis, fever, Headache Earache, weakness, for easy delivery malaria Piles.	Seed		
117	<i>Wendlandia exserta</i> D.C	Tilai	Rubiaceae	Tree	Fruits		Seed		
118	<i>Withnania somnifera</i> (L) Dunal.	Ashwagandha	Solanaceae	Herb	Root Leaves	Ulcer, arthritis, cough, stimulant	Seed		
119	<i>Woodfordia fruticosa</i> Salisb.	Dhawai	Lythraceae	Shrub	Flowers stem, Bark Flowers Leaves	To cure irregular menses, piles Diarrhoea, Nasal bleeding, jaundice Dysentery, Tooth ailments, skin disease	Seed		
120	<i>Xeromphis spinosa</i> (Thunb) Keay	Mainphal	Rubiaceae	Tree	Fruit Seed	Migraine, asthma	Seed		
121	<i>Zizyphus Jujube</i> Milles.	Ber	Rhamnaceae	Tree	Leaves fruit	Cough vomiting, infertility, pain	Seed		
122	<i>Zizyphus nummularia</i> (Burm.f.) Wight & Arn	Jangli Ber	Rhamnaceae	Tree	Bark	Bile disease & Cough, stomach pain Dysentery	Seed		

Maximum plants recorded in the family fabaceae which was most dominant family among the rest. Whereas 16 families showed minimum species composition (one each) during the study period order of the plants based on their Habits were Herb > Tree > Shrub. Top five Families with rich composition of Medicinal plants species were fabaceae (16) >

Euphorbiaceae (07) > Rubiaceae (05) > Liliaceae, Caesalpinaceae, Combretaceae, Moraceae (04) > Acanthaceae, Myrtaceae, Asteraceae, Anacardiaceae, Asclepiadaceae, Convolvulaceae, Solanaceae, Berbenaceae, Lamiaceae, (03) Where as other families showed intermediate member of plants sp.