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Medicinal plants Diversity in Bhilai city District Durg,  
Chhattisgarh, India

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Abstract

Chhattisgarh is a rich herbal state in India. The state is covered with 44.00% forest part. Present paper is conducted in Bhilai city; district Durg, Chhattisgarh, India. The study revealed the 198 plant species (86 Herbs, 44 Shrub, 61 Tree, 7 Climber) belonging to 69 families. A list of plant species along with their family, Botanical Name, Common Name, Part used, Medicinal uses with the help of available literature. Which indicate the heterogeneous floristic composition in the Bhilai city, District Durg, Chhattisgarh, India. Maximum species diversity was recorded, under the Family Fabaceae. Herbaceous medicinal plants showed their maximum presence in the Bhilai City.

Key-Words: Medicinal Plants, Bhilai City, India, Medicinal Uses, Diversity

Introduction

Medicinal plants are the most important source of life saving drugs for the majority of the world's population. Medicinal plants are the local heritage with global importance. World is endowed with rich wealth of medicinal plant. It is an potential estimated that around 70,000 plants species, from lichens to wearing trees, have been used at one time or another for medicinal purpose. In Ayurveda about 2,000 plant species are considered to have medicinal value, while the Chinese pharmacopoeia lists over 5,700 tradition medicines, most of which are of plant origin . About 500 herbs are employed within conventional medicine, although whole plants are rarely used. In India medicinal plants have made a good contribution to the development of ancient Indian material medica. One of the earliest treatises on Indian medicine the "Charak samhita "(1000 B.C.) recodes the use of over 340 drugs of vegetable origin (Prajapati *et al.*, 2003).

In India the use of medicinal herbs is 15,000 B.C old. The medicinal plants starting referencing in the Arthrvaveda. The textual knowledge is 3,000 years old and about 80,000 plants are utilized in our India medicine. Chhattisgarh state is spread from 17'.46' to 24'.5' N and 80'.15' to 84'.24'E. The state experiences hot humid to hot sub humid climate.

Chhattisgarh is famous as rich herbal variety state in India because diversity of plants is being found here. Different parts of these plants like shoot, bud, flowers, root, leaves, stem etc. are used to treat several diseases. (Sharma *et al* 2016).

Bhilai Nagar is located in the 81 26 E and 21 13 N. Bhilai Nagar is the city in the Durg district of Chhattisgarh, India. The city placed in 30 KM west of the capital Raipur on the main National highway 6 and Howrah Mumbai rail line. Bhilai Nagar is famous for BHILAI STEEL PLANT (BSP), which is the main largest of steel plant of India and known for being the only construct of rails in the country used by Indian railways. (Shrivastava *et al* 2014).



Fig. 1: Chhattisgarh Map

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### Material and Methods

#### Study area

Present study was conducted to observe medicinal plants diversity in the Bhilai City, District Durg, and Chhattisgarh, India. Investigation were made for collection of medicinal plants their identification, followed by Common Name, Family, Botanical Name, Parts used, Use.

#### Vegetational Survey

The Bhilai city was periodically visited for the collection of medicinal plants. The plants were freshly collected and their digital photographs were taken.

The identifications of plants were done using the following references:-

1. Ayurvedic plants 1<sup>st</sup> edition by P. Kulkarni (2004).
2. Review on Indian medicinal plants volume 1-10 by N. Tendon (2011).
3. Flora of Jabalpur by M. Oommachan (1996).
4. Medicinal plants of India and Pakistan by J.F.Dastur (1962).
5. Flora of British India Volume 1-7 by J.D. Hooker (1875).

**Table 1: List of medicinal plants species used in the treatment of various ailments in Bhilai city, Durg District, Chhattisgarh, India**

S. No.	Family	Botanical Name	Common Name	Habit	Parts Used	Medicinal Uses
1	Acanthaceae	<i>Adhatoda vasica</i> Linn.	Adusa	Shrub	Leaf, Root, Flower	Antimicrobial activity, Antidiabetic activity, Wound healing
2	Acanthaceae	<i>Andrographis paniculata</i> Nees	Chiraya	Herb	Whole plant	Febrifuge, Stomachic, Fever, Malaria,
3	Acanthaceae	<i>Barleria prionitis</i> Linn.	Vajradanti	Shrub	Leaves	Febrifuge, Urinary & Paralysis
4	Acanthaceae	<i>Hygrophilia spinosa</i> T. And.	Gokshura	Herb	Root, Flower, Stem, Fruit, and Leaves	Bladder stone, Eye disease, Cancer
5	Acanthaceae	<i>Justicia adhatoda</i> L.	vasala	Shrub	Herb	Root, Leaves, Seed
6	Acanthaceae	<i>Justicia gendarussa</i> Burn.	Bakas	Shrub	Leaves, Shoot Root,	Diarrhoea, Dysentery, Rheum
7	Acoraceae	<i>Acoras calamus</i> L.	Beewort	Herb	Rhizome	Tetanus, Amnesia, Heart palpitations,
8	Agavaceae	<i>Sansevieria roxburghiana</i> Schult. & Schult. F.	Murva	Herb	Whole plant	Cardiotonic, Expectorant, Febrifuge, Purgative
9	Alliaceae	<i>Allium cepa</i> L.	Onion	Herb	Bulb	Antioxidant, Diabetes Cardiovascular disease
10	Amaranthaceae	<i>Alternanthera sessilis</i> (L.) R.Br.	Ponnaganni	Herb	Whole plant	Cholagogue, Febrifuge, Hernia, Snakebite
11	Amaranthaceae	<i>Celosia argentea</i> Linn Var.	Laal murga	Herb	Seed, Flower	Cough, Dysentery, Diarrhoea, Fever, Heart disease
12	Amaranthaceae	<i>Achyranthes aspera</i> L.	Lal bhaji	Herb	Whole plant	Laxative, Stomachic, Depurative
13	Amaranthaceae	<i>Amaranthus polygamus</i> Linn.	Chloai bhaji	Herb	Seed, Root, Leaves	Aphrodisiac, Leucorrhoea, Gonorrhoea
14	Anacardiaceae	<i>Buchanania lanzan</i> Sprengel J.Bot	Achar	Tree	Fruit, Root, Leaves	Leprosy, Skin disease, Diarrhea

15	Anacardiaceae	<i>Mangifera indica</i> Linn.	Aam	Herb	Fruit	Haemostatic, Wound healing, Cough
16	Annonaceae	<i>Anona squamosa</i> Linn.	Sitaphal	Tree	Leaves, Fruit, Seed, Root	Diarrhoea, Spinal disease, Dysentery
17	Apiaceae	<i>Trachyspermum ammi</i> (L.) Sprague	Ajwain, Jevain	Herb	Fruit, Oil	Influenza, Asthma, Cough, Colds, Colic
18	Apiaceae	<i>Centella asiatica</i> (L.) Urban.	Bramhi	Herb	Whole plant	Hysteria, Epilepsy, Appetite, Diarrhea
19	Apocynaceae	<i>Alstonia scholaris</i> R. Br.	Devils tree	Tree	Leaves, Pulp, Stem, Bark	Astringent, Diarrhea, Dysentery, Ulcer
20	Apocynaceae	<i>Carissa carandus</i> Aust.	Karaunda	Shrub	Fruit, Root, Leaves	Stomach disorder, Scabies pruritus, Diarrhea
21	Apocynaceae	<i>Catharanthus roseus</i> (L.)	Sadabaha r	Herb	Root, Leaf	Diabetes, Diabetic mellitus, Hypertension
22	Apocynaceae	<i>Holarrhena antidysenterica</i> Wall Ex. D.	Kutaja	Tree	Seed, Leaves	Parasiticial, Diarrhea, Dysentery
23	Apocynaceae	<i>Nerium indicum</i> Mill.	Chandani	Shrub	Leaf, Seed	Eye disorders, Constipation, Blood purifier
24	Apocynaceae	<i>Plumeria rubra</i> Linn. Var.	Svetacampa, Glainchi	Tree	Root, Leaves	Diuretic, Febrifuge, Purgative, Diarrhea
25	Apocynaceae	<i>Rauwolfia serpentina</i> Benth ex.Kurz.	Sarggandha	Herb	Leaf, Fruit, Root	Anthelmintic, Blood pressure, Mental tension
26	Apocynaceae	<i>Tabernaemontana coronaria</i> R. Br.	Chandani, Tagara	Shrub	Root, Milky juice	Fever, Refrigerant, Eye disease
27	Apocynaceae	<i>Tabernaemontana divaricata</i> (L.) R. Br.	Chandani	Shrub	Leaf, Flower, Root, Bark	Eye disease, Skin disease, Diuretic
28	Apocynaceae	<i>Thevetia peruviana</i> (Pers.)	Kaner	Shrub	Root, Leaves, Bark	Diuretic, Purgative, Febrifuge, Fever
29	Araceae	<i>Alocasia indica</i> (Roxb.) Scholt	Suran, Mankanda	Shrub	Leaves	Earache, Gas problem, Dysuria, Piles
30	Araceae	<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson	Zimikand, Van Suran	Herb	Corms	Astringent, Irritant, Anti-inflammatory, Anti-haemorrhoidal, Haemostatic, Stomachic, Anthelmintic
31	Araceae	<i>Colocasia esculenta</i> (L.) Schott	Arvi, Kachalu	Herb	Leaf, Corms	Purgative, Analgesic, Anti-inflammatory, Anti-cancer
32	Araceae	<i>Pistia stratiotes</i> Linn.	Water lettuce	Herb	Leaf	Wounds, Burning sensations, Ring worm infection
33	Arecaceae	<i>Borassus flabellifer</i> Linn.	Palmyra palm, Brab Tree	Tree	Root, Bud, Fruit	Anthelmintic, Gonorrhoea, Gastritis, Diuretic,

34	Arecaceae	<i>Cocos nucifera</i> L.	Nariyala, Naarikela	Tree	Root, Leaf, Shoot, Flower, Fruit	Diuretic, Astringent, Gonorrhea, Wounds
35	Asclepiadaceae	<i>Calotropis gigantea</i> (L.) R. Br.	Arkra, Sadapusi	Shrub	Leaves, Root, Flower, Bark	Diaphoretic, Asthma, Elephantiasis
36	Asclepiadaceae	<i>Calotropis procera</i> (Alt) R.Br.	Madar	Shrub	Leaf, Root, Flower, Bark	Anthelmintic, Filarial, Ulcer, Blood disease, Asthma
37	Asclepiadaceae	<i>Cosmostigma racemosa</i> (Roxb.) Wight	Konga	Tree	Leaves, Bark	Ulcerous sores, Inflammation
38	Asparagaceae	<i>Polianthes tuberosa</i> L	Rajnigandha	Herb	Flower, Bulb	Decoction, Gonorrhea
39	Asteraceae	<i>Ageratum conyzoides</i> L.	White weed	Herb	Whole plant	Fever, Spasms antispasmodic
40	Asteraceae	<i>Anacyclus pyrethrum</i> DC.	Akarkra	Herb	Root, Stem	Brain tonic, Epilepsy, Ophthalmia
41	Asteraceae	<i>Eclipta prostrata</i> Roxb.	Bhringraj	Herb	Leaf	Asthma, Jaundice, Headache, Night blindness
42	Asteraceae	<i>Leontodon taraxacum</i> Linn.	Dulal	Herb	Root	Diuretic, Stomachic, Kidney & Liver disorder
43	Asteraceae	<i>Parthenium hysterophorus</i> L.	Gajarghass	Herb	Whole plant	properties, Dysentery, Skin disorder
44	Asteraceae	<i>Tridax procumbens</i> Linn.	Ghamra, Baramasi	Herb	Leaf	Bronchial catarrh, Dysentery, Diarrhea
45	Asteraceae	<i>Zinnia peruviana</i>	Upii	Herb	Whole plant	Anodyne, Menstruation, Malaria, bacterial
46	Asteraceae	<i>Spilanthes calva</i> Dc.	Akkalakra	Herb	Whole plant	Paralysis, Toothache, Dysentery, Wounds
47	Asteraceae	<i>Tagetes erecta</i> Linn.	Gada, Galagoti, Genda	Herb	Leaf, Root	Astringent, Styptic, Antiseptic
48	Averrhoaceae	<i>Xanthium strumarium</i> Linn.	Dutundi	Shrub	Root, Seed, Fruit	Snake bite, Swelling, Ulcer, Cancer
49	Bignoniaceae	<i>Millingtonia hortensis</i> L.F.	Akash neem	Shrub	Leaf, Flower, Root	Antipyretic, Cholagogue, Asthma, Fever
51	Bombacaceae	<i>Salmalia malabarica</i> Schott & Endl.	Semal	Tree	Root, Flower, Gum	Hemorrhoids, Urinary calculus, Cystitis
52	Boraginaceae	<i>Trichodesma indicum</i> (L.) Br.	Chhotakulpha	Herb	Whole plant	Osteoarthritis, Inflammation, Conjunctivitis
53	Burseraceae	<i>Commiphora wightii</i>	Gugal, Guggal	Tree	Gum, Bark	Arthritis, Obesity
54	Cactaceae	<i>Cereus grandiflorus</i> Mill.	Cactus	Herb	Fresh shoot	Cardiac disease, Cardiac neuralgia
55	Cactaceae	<i>Opuntia dillenii</i> Haw.	Cactus	Herb	Plant juice, Ripe fruit	Cough, Ophthalmia, Purgative, Demulcent
56	Caesalpinaceae	<i>Saraca indica</i> auct non Linn.	Ashoka	Tree	Bark	Diarrhea, Dysentery, Leucorrhoea
57	Caesalpiniceae	<i>Caesalpinia bonduca</i> (L.) Fleming	Sagargoti	Shrub	Root, Bark, Leaves, Seed	Febrifuge, Amenorrhea, Fever, Asthma

58	Caesalpiniaceae	<i>Cassia tora</i> L.	Charota bhaji	Herb	Leaf, Seed	Insomnia, Headache, Ophthalmia, Hypertension
59	Caricaceae	<i>Carica papaya</i> L.	Papita	Tree	Fruit	Malaria, Dengue fever, Cuts, Rashes,
60	Chenopodiaceae	<i>Basella alba</i> Linn.	Poi	Climber	Leaf	Asperient, Rubefacient , Catarrhl infections
61	Chenopodiaceae	<i>Chenopodium album</i> L.	Bathua	Herb	Leaves, Seed	Anthelmintic, Antirheumatic, Bug bite.
62	Clusiaceae	<i>Calophyllum inophyllum</i> Linn.	Sultan chapmpa	Tree	Leaves, Bark, Seed	Chicken pox, Scabies, Sunburn, Skin rash
63	Combretaceae	<i>Quisqualis indica</i> Linn.	Madhumalti	Climber	Leaf, Root, Bark, Gum	Diarrhea, Fever, Rickets, Skin disease
64	Combretaceae	<i>Terminalia arjuna</i> (DC.)	Kahua, Arjun	Tree	Stem bark	Ulcer, Fracture, Dysentery, Hemorrhoids
65	Combretaceae	<i>Terminalia bellerica</i> Roxb.	Bahera	Tree	Kernel of the seed	Constipation, Astringent, Leucoderma
66	Convolvulaceae	<i>Evolvulus alsinoides</i> L.	Shankha huli	Herb	Whole plant	Nervous debility, Loss of memory
67	Convolvulaceae	<i>Cuscuta reflexa</i> Roxb.	Akasvela , Amarvela	Herb	Stem, Seed	Laxative, Cholagogu, Anthelmintic
68	Convolvulaceae	<i>Operculina turpethum</i> (L.)	Pitohri	Shrub	Root	Snakebite, Anthelmintic, Hepatic, Paralysis
69	Crassulaceae	<i>Bryophyllum calycinum</i> Salisb	Pattarchatt	Herb	Leaf	Ulcer, Diarrhea, Dysentery, Ophthalmia
70	Crassulaceae	<i>Kalanchoe blossfeldiana</i> Poelln.	Kalanchoe	Herb	Leaf	Fever, Desentery, Cholera, Coughs, urinary diseases
71	Crassulaceae	<i>Kalanchoe pinnata</i> (Lam.) Pers.	Pattharchatta	Herb	Leaf, Stem, Root	Headaches, Toothaches, Earaches, Eye, infection, Wounds, Ulcer, Boils, Burns, and Insect bites
72	Cucurbitaceae	<i>Diplocyclos palmatus</i>	Sivalingi	Herb	Seed	Snake bite, Skin disease, Cough, Diarrhea, Swelling spleen
73	Cucurbitaceae	<i>Luffa acutangula</i> (Linn.)	Taroi	Herb	Fruit, Seed, Leaves	Dysentery, Diuretic, Hemorrhoids, Leprosy
74	Cucurbitaceae	<i>Momordica charantia</i> L.	Karela	Tree	Fresh fruit, Fresh leaves	Diabetes, Piles, Carminative, Laxative, Leprosy, Jaundice
75	Dioscoreaceae	<i>Dioscorea bulbifera</i> Linn.	Gantalu	Herb	Stem, Leaves	Anthelmintic, Infestation, Blood disorder, Lymphadenitis, Infertility, Dysentery, Piles
76	Dipterocarpaceae	<i>Shorea robusta</i> Gaerth F.	Sal	Tree	Leaf	Stimulant, Wounds, Painful swelling, Bleeding piles, Fracture, Obesity
77	Euphorbiaceae	<i>Acalypha indica</i> Linn.	Kuppi	Herb	Leaves, Root	Diarrhea, Anthelmintic, Dysentery, Anti-dyslipdermic, Anti-inflammatory, Diarrhea, Chest affection

78	Euphorbiaceae	<i>Baliospermum montanum</i> (Wild) Muell.Arg	Wild castor, Dandi	Shrub	Root	Jaundice, Piles, Anemia, Conjunctivitis, skin disease, Piles, Snake bite, Blood purifier
79	Euphorbiaceae	<i>Croton tiglium</i> Willd	Croton	Tree	Whole plant	Griping pain, Constipation, Rheumatism gout, Neuralgia, Bronchitis
80	Euphorbiaceae	<i>Emblica officinalis</i> Gaertn.	Amla	Tree	Fruit, Bark	Hair tonic, Headache, Eye disorder
81	Euphorbiaceae	<i>Euphorbia hitra</i> L.	Asthma plant, Garden spurge	Herb	Bark, Leaf, Root	Wound, Respiratory disorder, Cough, Fever, Bronchial,, Asthma, Bronchitis
82	Euphorbiaceae	<i>Euphorbia milli</i> Des.	Desmoul	Shrub	Fruit, Flower, Leaf	Foot cracks, Dry skin, Influenza, Diuretic, Asthma, Headache, Earache, Fever, Cough,
83	Euphorbiaceae	<i>Euphorbia nerifolia</i> Linn.	Snuhi	Shrub	Latex, juice	Hipatosplenic, Anemia, Leucoderma, Diabetes mellitus, Arthritis, Skin disease, Piles
84	Euphorbiaceae	<i>Euphorbia parviflora</i> Linn.	Dhudhi	Herb	Leaves	Diarrhea, Dysentery, Leucorrhoea
85	Euphorbiaceae	<i>Jatropha curcas</i> L.	Safed arand	Tree	Leaf, Seed	Antiseptic, Scabies, Depurative, Eczema,
86	Euphorbiaceae	<i>Jatropha podagrica</i> Hook.	Gout plant	Shrub	Latex, Leaf, Root	Anticonceorus, Snake bite, Skin disease, Rheumatism,
87	Euphorbiaceae	<i>Mallotus philippensis</i> Muell Arg.	Rohini	Tree	Fruit	Bronchitis, Jaundice, Hook worm, Colic pain, Round worm
88	Euphorbiaceae	<i>Pedilanthus tithymaloides</i> (Linn.) Poit.	Naga daman	Herb	Leaf, Stem	Warts, Leucoderma, Mouth ulcers, Asthma, Cough
89	Euphorbiaceae	<i>Phyllanthus fraternus</i> Webstar	Bhuiamla	Herb	Fresh leaves	Cough, Diabetes Jaundice, Asthma,, Ulcer
90	Euphorbiaceae	<i>Phyllanthus niruri</i>	Bhuiamla	Herb	Whole plant	Jaundice, Fever, Urinary disease
91	Euphorbiaceae	<i>Phyllanthus urinaria</i> L.	Bhuiamla	Herb	Whole plant	Jaundice, Cheek eczema, Liver disease,
92	Fabaceae	<i>Abrus precatorius</i> L	Gunja	Climber	Leaves, Root, Seed	Gonorrhea, Fevers, Cough, Cold, Paralysis, Tumors
93	Fabaceae	<i>Acacia catechu</i> (L.F.) Wild.	Katha	Tree	Leaf	Burnt injuries, Oral disorder, Piles, Cough, Haemostatic, Dysentery,
94	Fabaceae	<i>Acacia arabica</i> (Lamk.) Wild.	Babul	Tree	Stem, Bark	Syphilitic ulcer, Wounds, Asthma
95	Fabaceae	<i>Albizia lebbek</i> Benth.	Lebbek Tree	Tree	Leaf, Seed	Antitoxic, Dermatitis, Loose teeth, Night blindness,
96	Fabaceae	<i>Bauhinia purpurea</i> L.	Butterfly tree	Tree	Root, Flower, Bark, Stem, Leaves	Ulcer, Swelling, Leprosy, Cough, Febrifuge, Anti-diarrheal,
97	Fabaceae	<i>Bauhinia racemosa</i> Lam	Kanchan	Tree	Flower, Leaves, Bark, Root	Blood purifier, Cough, Headache, Anti-diarrheal, Anti-dysenteric,

98	Fabaceae	<i>Bauhinia iganteana</i> L.	Kachnar	Tree	Flower, Leaf, Seed	Asthma, Ulcer, Digestive problem, Blood purifier, Skin disease, Asthma, Diarrhea
99	Fabaceae	<i>Butea monosperma</i> (Lamk.) Taub.	Dhak, Palas, Teshu	Tree	Flowers, Root, Bark, Leaves, Seed, Gum	Piles, Snake bite, Dyspepsia, Ulcer, Tumour, Diarrhea
100	Fabaceae	<i>Cassia angustifolia</i> Vahl.	Markandika, Charota Bhaji	Tree	Whole plant	Scabies, Eczema, Ringworm, Skin disease, Blood disease
101	Fabaceae	<i>Cassia fistula</i> Linn.	Amaltas	Tree	Stem bark	Snake bite Astringent, Skin diseases
102	Fabaceae	<i>Cicer arietinum</i> Linn.	Channa	Herb	Leaves, Seed	Stomachic, Constipation, Dislocated joint, Dyspepsia
103	Fabaceae	<i>Clitoria ternatea</i> Linn.	Aparajita	Herb	Root, Seed, Leaf	Fever, Earache, Diuretic, Vomiting, Ulcer
104	Fabaceae	<i>Crotalaria retusa</i> Linn.	Kunkuniyan	Shrub	Leaves, Seed	Cardiac disorders, Diarrhea, Scabies, Skin disease, Leprosy, Fever
105	Fabaceae	<i>Dalbergia sisoo</i> Roxb.	Shisham	Tree	Leaf, Stem	Vomiting, Rheumatoid, Arthritis, Injury bronchitis, Stomach pain
106	Fabaceae	<i>Desmodium gangeticum</i> (L.)	Chuppa	Herb	Whole plant	Blood disorder, Nervine tonic, Diarrhea, Vomiting
107	Fabaceae	<i>Mimosa pudica</i> L.	Lajjavanti, Lajjalu	Tree	Whole plant	Diabetes, Filariasis, Menorrhagia, Piles
108	Fabaceae	<i>Mucuna pruriens</i> (L.) DC.	Kaunch	Tree	Seed, Leaves	Round worm, Parkinson's disease, Arthritis, Anxiety, muscles pain
109	Fabaceae	<i>Pithecellobium dulce</i> (Roxb.)	Jangal jalebi	Tree	Leaves, Bark	Allay pain, Dysentery, Anemia, Leprosy, Peptic ulcer
110	Fabaceae	<i>Pongamia pinnata</i> Pier.	Karanj	Tree	Seed, Bark, Leaves	Diabetes, Gonorrhoea, Scabies, Herpes, Diarrhea, Dyspepsia
111	Fabaceae	<i>Psoralea corylifolia</i> (L.)	Bachudi, Babchi	Herb	Whole plant	Improve hair growth, chronic fever, Skin disease, piles
112	Fabaceae	<i>Pueraria tuberosa</i> Willd Dc.	Patal kumhara	Climber	Root	Antiviral, Fever, Rheumatism, Antitumor, Antioxidant, Swelling
113	Fabaceae	<i>Tamarindus indica</i> Linn.	Imali	Tree	Leaf, Flower, Root bark, Fruit, Seed	Fever, Amenorrhoea, Ulcer, Wounds, Jaundice, Asthma, Scabies
114	Fabaceae	<i>Tephrosia purpurea</i> (L.) Pers.	Sarphonk, Sharpunkha	Herb	Whole plant	Ulcer, Dysentery, Wound, Fracture
115	Graminae	<i>Bambusa arundinaceae</i> (Retz.) Wild.	Bans, Kalak	Shrub	Root, Seed, Leaves	Leprosy, Diuretic, Ringworm, Astringent
116	Graminae	<i>Cymbopogon citrates</i> Stapf.	Lemon Grass	Herb	Leaves, Grass oil	Antispasmodic, Diuretic, Ringworm, Diaphoretic
117	Graminae	<i>Cynodon dactylon</i> (L.) Pers.	Durva	Herb	Leaf	Diarrhea, Diuretic, Dropsy, Dysentery

118	Graminae	<i>Saccharum officinarum</i> L.	Ikaha, Ganna	Shrub	Leaves	Urinary disease, Diuretic, Jaundice, Cooling, Laxative
119	Labiatae	<i>Ocimum basilacum</i> Linn.	Bantulsi	Herb	Leaf, Flower, Root, Bark	Stomachic, Carminative, Gonorrhoea, Headache, Anthelmintic,
120	Labiatae	<i>Ocimum sanctum</i> Linn.	Tulsi	Herb	Leaf, Flower	Eczema, Ring worm, Abdominal pain, Chronic ulcer, Earache, Scabies,
121	Lamiaceae	<i>Coleus barbatus</i>	Patharchur	Herb	Whole plant	bronchitis, epilepsy, insomnia, skin rashes asthma, Heart disease
122	Lamiaceae	<i>Coleus forskohlii</i> (Willd.) Briq.	Patharchur, Karpuravali	Herb	Root	Glaucoma, Cardiac problems, Cancer, Constipation
123	Lamiaceae	<i>Coleus scutellarioides</i> (L.) R. Br.	Coleus	Herb	Leaves, seeds, bark	Dyspepsia, Conjunctivitis, Sthma, Angina, Bronchitis, Epilepsy, Insomnia, Skin rashes
124	Lamiaceae	<i>Leucas cephalotes</i> L.	Gubbha	Climber	Juice	Snakebite, Wounds, Eye ointment, Jaundice, Carminative, Laxative
125	Lamiaceae	<i>Mentha arvensis</i> Linn.	Pudina	Tree	Leaf	Antispasmodic, Antiseptic, Carminative, Rheumatism
126	Lamiaceae	<i>Ocimum gratissimum</i> Linn	Ramtulsi	Herb	Whole plant	Headache, Influenza, Paralysis, Weakness, Sun stork,
127	Liliaceae	<i>Aloe barbadensis</i> Mill.	Ghikumari, Aloevera	Herb	Tuber, Leaves	Chronic ulcers, Ophthalmia, Skin disease, Purgative
128	Liliaceae	<i>Asparagus racemosus</i> Wild.	Shatavar	Herb	Root, Tuber	Weakness, Smallpox, Eye tonic, Eye disease Brain disease
129	Liliaceae	<i>Gloriosa superba</i> L.	Kalihari	Herb	Whole plant	Wounds, Inflammation, Piles, Scorpion sting, Typhoid
130	Lythraceae	<i>Lawsonia inermis</i> Linn.	Mehndi, Henna	Herb	Root, Leaves, Flowers, Seed	Jaundice, Headache, Antifungal drug, Skin disease
131	Lythraceae	<i>Woodfordia fruticosa</i> (L) Kurz.	Dhawai	Shrub	Flower	Wound healer, Headache, Dysentery, Cold Cough, Skin disorder
132	Malpighiaceae	<i>Hiptage benghalensis</i> (L.) Kutz.	Kampti	Shrub	Leaves, Bark, Flower	Chronic rheumatism, Ulcer, Cough, Asthma, Cardiac debility, Scabies
133	Malvaceae	<i>Abelmoschus moschatus</i> Medk	Kastur bhenda	Herb	Stem, Leaves, Root	Hysteria, Nervous disorder, Antispasmodic, Carminative, Scabies
134	Malvaceae	<i>Abutilon indicum</i> (Linn.) Sweat	Kangori, Petaae	Shrub	Whole plant	Nervine tonic, Fever, Colic, Dysentery, Consumption, Arthritis, Cough
135	Malvaceae	<i>Hibiscus rosa sinensis</i> Linn.	Gudhal	Shrub	Flower, Leaf	Cough, Fever, Gonorrhoea, Menorrhagia, Kidney trouble
136	Malvaceae	<i>Sida acuta</i> Burm.	jangali methi	Herb	Leaf, Root	Rheumatic affection, Abortifacient, Hemorrhoids, Anthelmintic, Elephantiasis



137	Malvaceae	<i>Sida cordifolia</i> L. Sp.	Mamas, kungyi	Herb	Leaf, Root	Gonorrhea, Oedema, Eye disorder, Neural tonic, Paralysis
138	Malvaceae	<i>Thespesia lampus</i> Lav.	Amagon g	Shrub	Leaf, Leaf juice, Root, Bark	Cough, Dysentery, Fever, Sun stroke, Worms, Health tonic
139	Malvaceae	<i>Thespesia populnea</i> (L.) Soland.	Populus	Tree	Stem, Bark	Itches, Headache, Skin disease, Blood pressure
140	Meliaceae	<i>Azadirachta indica</i> Linn.	Neem	Tree	Stem bark, Root bark	Wounds, Arthritis, Joint swelling, Skin disease
141	Menispermaceae	<i>Cissampelos pareira</i> L.	Patha	Herb	Leaf, Root	Snake poison, Digestive, Astringent, Abdominal pain, Blood purifier
142	Menispermaceae	<i>Tinospora cordifolia</i> (Willd.) Miers.	Giloye, Gudich, Gurach	Climber	Stem, Root, Leaf	Jaundice, Diabetes, and Rheumatoid, Arthritis
143	Moraceae	<i>Artocarpus heterophylls</i>	Kathal	Tree	Fresh mature leaf	Asthma Wounds, Skin disease, Astringent, Carminative, Brain tonic, Diuretic
144	Moraceae	<i>Ficus benghalensis</i> Linn.	Bargad	Tree	Stem bark, Root bark, Milky latex	Piles, Conjunctivitis, Skin disease, Skin ulcer, Diarrhea, Leucorrhoea
145	Moraceae	<i>Ficus recemosa</i> L.	Gular	Tree	Fruit, Root	Menorrhagia, Skin wounds, Diabetes, Astringent, Leucoderma
146	Moraceae	<i>Ficus religiosa</i> Linn.	Pepal	Tree	Stem bark, Root bark, Aerial root	Dysentery, Wounds, Astringent, Diarrhoea
147	Moraceae	<i>Morus alba</i> Linn.	Sahatuta, Setura	Tree	Leaf, Root, Bark	Dyspepsia, Anthelmintic, Fever, Blood tonic
148	Moringaceae	<i>Moringa oleifera</i> Lam.	Shajna, Mungna,	Shrub	Leaf, Root bark, Seed, Fruit	Diuretic, Cough, Paralysis, Eye problem, Digestion
149	Myrtaceae	<i>Eucalyptus globulus</i> Labill.	Nilgiri	Tree	Root, Leaves	Febrifuge, Carminative, Antiseptic, Anti malarial, Antiseptic ,
150	Myrtaceae	<i>Psidium guajava</i> Linn.	Jaam, Bihi	Tree	Bark, Leaves, Fruit	Wounds, Fever, Diarrhea, Anti-inflammatory, Analgesic, Anti pyretic
151	Myrtaceae	<i>Syzygium cumini</i> (L.) Skeels.	Jamun	Tree	Bark, Fruit, Seed	Fever, Skin problem, Astringent, Anthelmintic, Cold ,Cough, Ulcer
152	Myrtaceae	<i>Terminalia chebula</i> (Retz.)	Harra	Tree	Kernel of the seed	Anti-inflammatory, Cough, Hiccups, Blood disorder, Conjunctivitis, Weakness
153	Nyctaginaceae	<i>Boerhaavia diffusa</i> Linn	Gadahpura	Herb	Whole plant	Swelling, Night blindness, Wounds, Asthma, Lever, Cough, Kidney stone,
154	Nyctaginaceae	<i>Mirabilis jalapa</i> Linn.	Beauty of the night, Gulabas	Herb	Leaf, Root, Flower	Reduces spasms, Increases urination, Strongly laxative, Aids
155	Nymphaeaceae	<i>Nelumbo nucifera</i> Gaerln.	Kamal	Herb	Seed, Root	Diarrhea, Pediatric disease, Refrigerant, Astringent, Brain tonic, High fever

156	Oleaceae	<i>Jasminum sambac</i> L. Aiton.	Malika, Moghra	Herb	Leaf, Flower	Anthelmintic, Deobstruent, Emmenagogue, Ulcer, Skin disease
157	Oleaceae	<i>Nyctanthes arbortristis</i> Linn.	Harsingar	Herb	Leaf, Seed	Laxative, Dysentery, Chronic fever, Cholagogue
158	Oxalidaceae	<i>Oxalis corniculata</i> Linn	Ambutee, Amrulsak	Herb	Leaf, Root	Diarrhea, Anemia, Fever, Scurvy, Wounds, Dyspepsia, Piles, Eczema
159	Papaveraceae	<i>Argemone maxicana</i> L.	ShialKanta, Bramhadandi	Shrub	Root, Seed	Fever, Ophthalmia, Skin disease, Inflammation, Anthelmintic, Kidney pain
160	Periplocaceae	<i>Gymnema sylvestre</i> Retz.	Gurmar	Tree	Leaf, Root	Snake bite, Diabetes, Swelling, Glycosuria, Astringent
161	Periplocaceae	<i>Hemidesmus indicus</i> (L.) R. Br.	Anantmul	Shrub	Root	Skin disease, Dysentery, Digestive, Laxative, Diarrhea
162	Piperaceae	<i>Piper betle</i> Linn.	Pan	Climber	Leaves, Roots, Fruits	Antioxidant, Anticancer, Anti- allergic, Coughs and Asthma.
163	Piperaceae	<i>Piper longum</i> L.	Pippali	Herb	Fruit, Root	Blood disorder, Liver disorder, Chronic fever, Carminative, Colic, Piles
164	Plantaginaceae	<i>Bacopa monnieri</i> (L.) Pennell. Prac	Bramhi	Herb	Leaves	Leprosy, Anemia, Anticancer, Fever, Hair loss, Asthma, Ulcer, Tumor, Epilepsy
165	Plumbaginaceae	<i>Plumbago zeylanica</i> Linn.	Chitrak, Chirchitta	Shrub	Root	Astringent, Oedema, Filariasis
166	Punicaceae	<i>Punica granatum</i> Linn.	Anar, Dadim	Tree	Root, Flower, Fruit, Seed, Pulp, Stem	Conjunctivitis, Astringent, Stomachic, Diarrhea, Dysentery, Dysentery
167	Rhamnaceae	<i>Ziziphus jujuba</i> Lam	Ber	Tree	Leaf, Bark, Fruit, Root	Gonorrhea, Astringent, Diarrhea, Dysentery, Colic, Wounds, Ulcer
168	Rosaceae	<i>Prunus amygdalus</i> Batsh	Badam	Tree	Seed oil	Demulcent, Stimulant, Nervine tonic, Peptic ulcer, Skin eruptions, Cough & Cold, Ulcer, Wounds, Colic
169	Rosaceae	<i>Rosa centifolia</i> Linn.	Gulab	Shrub	Bud	Wound healer, Bleeding disorder, fever, blood disease
170	Rubiaceae	<i>Gardenia latifolia</i> Aiton.	Papra	Tree	Leaf	Cuts, Diarrhea, Dysentery, Wounds Rheumatic pain, Fever,
171	Rubiaceae	<i>Ixora alba</i> Hort.	Jalpai	Shrub	Root, Fruit	Wound, Cough, Asthma
172	Rubiaceae	<i>Ixora coccinea</i> L.	Jungle flame	Shrub	Root, Flower, Fresh leaves	Colic pain, Dysentery, Eczema, Skin ulcer, Diarrhea, Wounds
173	Rubiaceae	<i>Mitragyna parvifolia</i> (Roxb.) Korth.	Mundi	Herb	Leaf, Root, Flower, Bark	Cold, cough, Skin disease, Colic pain, Anti-inflammatory, Leprosy Fever
174	Ruscaceae	<i>Urginea indica</i> L.	Jangali piyaz	Herb	Leaf, Bulb	Oedema, Blood pressure, Kidney disorder, Ulcer, Skin disorder,

						Lung disorder
175	Rutaceae	<i>Aegle marmelos</i> Correa Ex. Roxb.	Beal	Tree	Leaves, Root, Bark, Stem, Flower	Pain, Insomnia, Epilepsy, Diarrhea, Bleeding piles, Hysteria, Dysentery
176	Rutaceae	<i>Citrus limonum</i> Linn.	Limbu	Shrub	Fruit juice, Leaf, Root	Leprotic ulcer, Rheumatic, Affections, Scabies, Headaches, Dyspepsia
177	Rutaceae	<i>Murraya koenigi</i> Spreng.	Curry leaf, Misht nimb	Shrub	Leaves	Stimulants, Antifungal, Kidney pain, Blood purifier, Body aches
178	Santalacaeae	<i>Santalum album</i> Linn.	Chandan	Tree	Wood oil, Wood powder	Cardiac, Diuretic, Fever, Gonorrhea, Biliious disorders, Antiseptic
179	Sapindaceae	<i>Schleichera oleosa</i> (Lour.)	Kusum	Tree	Seed oil, Leaves	Body pain, Cuts, Wounds, Gastric ulcer, Skin troubles, Bone fracture, Cold, cough
180	Sapotaceae	<i>Madhuca indica</i> Gmel	Mahua	Tree	Leaf, Flower, Root, Bark	Dysentery, Carminative, Headache, Nerve disorder, Diarrhea, Astringent
181	Scitamineae	<i>Musa paradisiaca</i> Linn.	Kella	Shrub	Root, Stem	Eye disease, Diarrhea, Ulcer, Anemia, Diabetes, Inflammation
182	Solanaceae	<i>Datura metel</i> L.	White Datura	Herb	Leaf, Seed	Asthma, Fever, Inflammation, Mumps, Diarrhea, Skin disease
183	Solanaceae	<i>Lycopersicon esculentum</i> Mill.	Tamater	Herb	Fruit, Seed	Stimulate, Bronchitis, secretion, Dyspepsia Gastric
184	Solanaceae	<i>Solanum indicum</i> Linn.	Bruhathi	Herb	Leaf, Root, Fruit	Diuretic, Cough, Asthma, Antipruritic, Hiccups
185	Solanaceae	<i>Solanum nigrum</i> L.	Makoi	Herb	Whole plant	Oedema, Asthma, Chronic fever Inflammation, Cough, Skin disorder,
186	Solanaceae	<i>Solanum xanthocarpum</i> Schrad. & Wendl	Kanataka ri	Herb	Whole plant	Dental pain, Piles, , Blood disorder, Pneumonia, Hiccups, Cough
187	Solanaceae	<i>Withania somnifera</i> (L)	Ashwaga ndha	Shrub	Leaf, Root	Constipation, Worms, Blood disorder, Oedema Sedative, Nervine tonic
188	Sterculiaceae	<i>Helicteres isora</i> Linn.	Mororph ali	Shrub	Fruit, Root, Bark	Anthemintic, Decoction, Intestinal disorder, Stringent, Analgesic,
189	Sterculiaceae	<i>Pterospermum acerifolium</i> Wild.	Kanak champa	Shrub	Leaves, Flower, Bark	Abdominal, Smallpox, Fever, Antimicrobial, Cough, Inflammation, Menorrhagia
190	Verbenaceae	<i>Gmelina arborea</i> Roxb.	Gmbar, Khamer	Tree	Stem, Root, Bark	Hemorrhoids, Snake bite, Headache, Fever, Brain debility,
191	Verbenaceae	<i>Lantana camara</i> L. Moldenke.	Vantulsi	Shrub	Fresh root, Leaves	Wounds, Ulcers, Dysentery, Carminative, Tetanus, Swelling, Eczema
192	Verbenaceae	<i>Tectona grandis</i> (L.) F.	Sagon	Tree	Stem, Bark	Hemorrhages, Astringent, Menstrual disorder, Anemia, Skin

						itching
193	Verbenaceae	<i>Vitex negundo</i> Linn.	Nirgundi	Shrub	Root, Leaves, Stem	Arthritis, Joints pain, Heartache, Ulcer, Wound
194	Violaceae	<i>Crataeva magna</i> Lour. DC.	Varuna	Tree	Leaves, Bark, Flower	Antiperiodic tonic, Demulcent, Calculus
195	Vitaceae	<i>Cissus quadrangularis</i> L.	Hadjod	Herb	Leaves, Stem	Asthma, Scurvy, Wounds, Cough, Piles, Swelling, Digestive troubles, Bone fractures
196	Zingiberaceae	<i>Canna indica</i> Linn.	Canna, Indian shot	Herb	Rhizomes, flowers, leaves.	Diarrhoea, Dysentery
197	Zingiberaceae	<i>Costus speciosus</i> L.	Kemuka, Pewa, Kevkand	Herb	Leaves, Rhizome, Root	Depurative, Cough, Dyspepsia, Stimulant, Digestive, Fever
198	Zingiberaceae	<i>Curcuma longa</i> Linn.	Haldi	Shrub	Rhizome, Flowers	Astringent, Anthelmintic, Itching Purgative, Fever, Flatulence, Diarrhea

**Table 2: Family wise summary of Medicinal plants in Bhilai City, District Durg, Chhattisgarh, India**

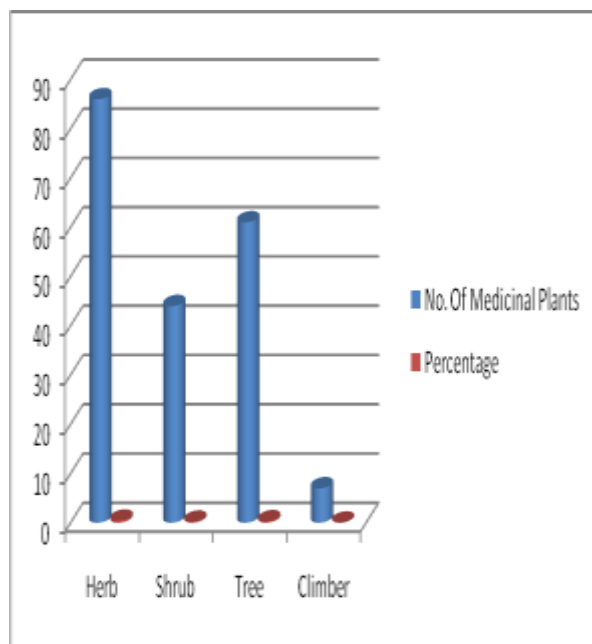
Family	Total Plant species
Acanthaceae	6
Acoraceae	1
Agavaceae	1
Alliaceae	1
Amaranthaceae	4
Anacardiaceae	2
Annonaceae	1
Apiaceae	2
Apocynaceae	10
Araceae	4
Arecaceae	2
Asclepiadaceae	3
Asparagaceae	1
Asteraceae	9
Averrhoaceae	1
Bignoniaceae	1
Bombacaceae	2
Boraginaceae	1
Burseraceae	1
Cactaceae	2

Caesalpinaceae	3
Caricaceae	1
Chenopodiaceae	2
Clusiaceae	1
Combretaceae	3
Convolvulaceae	3
Crassulaceae	3
Cucurbitaceae	3
Dioscoreaceae	1
Dipterocarpaceae	1
Euphorbiaceae	15
Fabaceae	23
Graminae	4
Labiatae	2
Lamiaceae	6
Liliaceae	3
Lythraceae	2
Malpighiaceae	1
Malvaceae	7
Meliaceae	1
Menispermaceae	2
Moraceae	5
Moringaceae	1
Myrtaceae	4
Nyctaginaceae	2
Nymphaeaceae	1
Oleaceae	2
Oxalidaceae	1
Papaveraceae	1
Periplocaceae	2
Piperaceae	2
Plantaginaceae	1
Plumbaginaceae	1
Punicaceae	1
Rhamnaceae	1

Rosaceae	2
Rubiaceae	4
Ruscaceae	1
Rutaceae	3
Santalacaceae	1
Sapindaceae	1
Sapotaceae	1
Scitamineae	1
Solanaceae	6
Sterculiaceae	2
Verbenaceae	4
Violaceae	1
Vitaceae	1

**Table 3: List of medicinal plants in Bhilai City**

Habit	No. of Medicinal Plants	Percentage
Herb	86	43.43%
Shrub	44	22.22%
Tree	61	30.80%
Climber	7	3.55%



**Fig. 2: Distribution of Medicinal Plants in Bhilai city by Habitats**

### Results and Discussion

In study of the medicinal plants in Bhilai city, Durg district of Chhattisgarh, India. a total of 198 species from 69 families was identified in Bhilai city surveyed. And recorded medicinal plants showed special habitat like herb, shrub, tree, and climber. Collected medicinal plants are arranged in Family, Botanical name, Common name, Parts used, Medicinal uses Shown in Table No. 1 and Table 2 indicating Family wise summary of Bhilai city, Durg District, Chhattisgarh, India. Important chemicals is present in large amount and used for preparation of medicine for recovery of different disease like Fever, cough, Malaria, Jaundice, Paralysis, Asthma, Cancer, piles, diarrhea, etc. these medicines were prepared from different part of plant like Root, bark, stem, leaf, flower, fruits.

The family with the highest number of species was Fabaceae(23 sps ), followed by Euphorbiaceae (15sps ), Apocynaceae ( 10 sps ), Asteraceae (9 sps), Malvaceae (7sps ), Acanthaceae (6sps), Lamiaceae(6sps), and Solanaceae families Moraceae, Amaranthaceae, Araceae, Graminae, Myrtaceae, Rubiaceae, verbineaceae, Asclepidaceae, Caesalpiniaceae Combricaceae, Convoulaceae, Liliaceae, Rutaceae, Zingiberaceae, etc.

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