

ETHNO BOTANICAL STUDY OF SONEBHADRA DISTRICT OF UTTAR PRADESH**Dr. Sarvajeet Singh**Asst. Professor (Botany), Rajkiya Mahila Mahavidhyalaya,
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Abstract- This paper related to use of medicinal plants by Tribal communities which found in Sonebhadra district. The methods used for ethnobotanical data collection, interviews, field observation, preference ranking and direct-matrix ranking Result of study were analyzed using two quantitative tools: Informant consensus factor (ICF) and the fidelity level (FL). The data provide from information and analyzed in this article show that both knowledge on medicinal plants and plant uses in still alive in the studid region thus documentation is necessary because of pharmacological study and drug development.

Keywords:- Medicinal plant, Pharmacology, Herbal drug, Ethnobotanical knowledge, Sonebhadra forest, Uttar Pradesh.

1 INTRODUCTION

Present time developed countries move towards back to use of herbal products due to side effects of chemical drugs. For this region documentation and conservation of medicinal plants become big challenges throughout the world. Forest of Sonebhadra is a rich source of medicinal plants due to its geographical and climatic condition. Recently status of Herbal medicinal plants has been declined rapidly due to modernization of synthetic drugs. In world 12 mega biodiversity centre, India is one of them. The plants are rich in secondary metabolites which are main sources of herbs only 5 to 10% of existing plant species in India have been biologically active compounds only 25% of the medicinal drugs are based on plant sources in developed countries so that synthesized drug system are expanded. In India, 1500 medicinal plants of which only 500 species are commonly used. More than 150 plants species have been recognized as endangered due to exploitation. These present scenario medicinal plant sector have a special attention.

Use of traditional herbal medicine it is an effort to record all the herbal medicinal plant of tribal forest area of Sonebhadra district. In present study documented all the medicinal plants of Sonebhadra. Information collected by local tribal practioneres.

Considering the current rate of deforestation population exploitation with the loss of Biodiversity there is need for accurate documentation of the knowledge and experience of traditional herbalist in Sonebhadra.

Description of study Area:- U.P. is a largest populated area of 240,928 km². 75 districts in U.P. its forest cover is about 16583 km². which is only 68% of the total geographical area (FSI 2011). Sonebhadra formed to March 1989. It is the second largest district in U.P. after Lakhimpur khiri. Its geographical area 6788km². It lies between 30° 51'54" N - 24°42'18" N and 82°40'24" E -83°33'15" E at elevation ranging from 315-485M the temperature of the area varies from 32°C - 42°C in the summer and winter 5°C - 18°C.

2 MATERIAL AND METHODS

The study was carried out in the area from years 2018 to 2020. The field survey was conducted in 10 blocks of Sonebhadra. Information was gathered from tribal people, local people, medicine man using an integrated approach of personal conducts interaction, interviews. During this study many remote village were visited to interact with the tribal. After that collect information was compared with published literature.

After data collecting, data analysis was done by informant consensus factor (ICF) ICF calculated by

$$ICF = Nur - / Nt Nur - 1$$

Where Nur is the no. of use reports from informants for a particular plant usage category and Nt is the no. of taxa or species that are used for the plant usage category for all informants.

The fidelity Level (FL) the percentage of informants claiming the use of a certain plant species for the same, major purpose, was calculated for most frequently reported discussion

$$FL(\%) = (NP/N) \times 100$$

Where NP is the no. of informants that claim a use of plant species to treat a particular species and N is the no. of informants that use the plants at a medicine to treat any given disease.

3 RESULTS

Eighty two percent informants reported remedies for 24 ailments. In this 30% female and 70% male give this information which indicated that traditional knowledge of family or

Mainly herb is dominated in ethno botanical study.

Table 1 Documentation of ethno medicinal plants in Sonebhadra District, India

S/N	Ethnomedicinal plant	Family	Habit	Plant part	Vernacular name	Ethenomedicinal Uses
1	<i>Abroma augusta</i> L. F.	Sterculiaceae	Shrub	Bark	Ulatkambal	Dysmenorrhoea, urine tonic, syphilis, bronchitis, diabetes.
2	<i>Abrus precatorius</i> Linn.	Fabaceae	Climber	Seed, leaf	Gumachi, Gunj, Ratti.	Eczema, inflammation of gums, leucoderma, scabies, sciatica, scorpion bite, skin disease, swelling
3	<i>Abutilon indicum</i> (Linn) Sweet	Malvaceae	Shrub	Root, seed	Jhumka, Kanghi, Son-patari	Cough diarrhoea, dysentery, febrifuge, gonorrhoea, headache, leprosy, piles, stomach complaints, wounds.
4	<i>Acacia catechu</i> (Linn.f.) Wild	Mimosaceae	Tree	Heart wood, bark	Khair, Kattha	Astringent, bleed from nose, consumption, diarrhoea, dysentery, leucorrhoea, menstrual complaints, pain in chest, sore in mouth, toothache.
5	<i>Acacia nilotica</i> (Linn.) Del	Mimosaceae	Tree	Bark, gum	Babul, Kikar,	Burns, cholera, diarrhoea, dysentery, ear complaints, eye complaints, hair fall, headache, leprosy, liver complaints, skin disease, syphilis, throat infection,
6	<i>Acacia sinuata</i> (Lour.) Merr.	Mimosaceae	Climbing shrub	Pod	Shikakai, Rijoh	Biliousness, constipation, skin disease.
7	<i>Acalypha hispida</i> Burm	Euphorbiaceae	Herb	Leaf, whole plant	Khokali, Sultan Kuppi,	Asthma, bronchitis, cough, earache, expectorant, scabies, skin disease, snake bite, sting of centipedes.
8	<i>Achyranthes aspera</i> Linn.	Amaranthaceae	Herb	Root, leaf	Adhajhara, Latjira, Chirchiti.	Abortifacient, antifertility in women, bleeding in delivery, boils, child birth, dog bite, , ear complaints, eye complaints, febrifuge, insect bite, leucoderma, piles, scabies, scorpion bite, skin disease, snake bite, sore, toothache, wounds.
9	<i>Adina cordifolia</i> (Roxb.) Hook	Rubiaceae	Tree	Bark, leaf	Haldu,	Cholera, cold, cough, , fever, headache, scars on skin and yellowing of body, urine complaints,
10	<i>Aegle marmelos</i> (L) Corr.	Rutaceae	Tree	Fruit, leaf, bark	Bel, Sripal	Abdominal pain, abscess, astringent, cholera, constipation, diabetes, diarrhoea, dysentery, eye complaints, fever, gastric troubles, heat in abdomen, jaundice, stomach disorder, tonic, vomiting,
11	<i>Agave americana</i> Linn	Agavaceae	Succulent	Leaf, root	Chick-kuri, Rambans	Ascites, dropsy, dysentery, syphilis, anthelmintic, boils, burns, cut, wound, diarrhoea,

community to pass from male parents to his son.

The number of Ethno medicinally important plant species documented in Sonebhadra district was 143 species of the plants belonging to 56 Angiospermic families as traditional medicinal plants for cure of their disease. The most commonly represented families with respect to ethno botanically studies are Fabaceae Euphorbiaceae, Asteraceae.

S/N	Ethnomedicinal plant	Family	Habit	Plant part	Vernacular name	Ethenomedicinal Uses
						skin disease.
12	Ageratum conyzoides Linn.	Asteraceae,	Herb	Leaf	Ajgandha, Sadevi,	Leprosy, muscular pain, piles, ring worm, scabies, skin disease, snake bite, sores, swell body, tumor, urine disorders, wounds.
13	Albizialebeck (Linn.) Benth	Mimosaceae	Tree	Seed, bark, flower	Siris,	Boils, diarrhoea, dysentery, gonorrhoea, eyes sores, gum ulcer, night blindness, piles, swelling.
14	Aloe barbadensis Mill	Liliaceae	Succulent	Leaf	Gheekumar, Gwarpatha	Boils, breast tissue hardening, constipation, jaundice, fever, liver complaints, menstrual complaints, piles, refrigerant, rheumatism, sexual vitality, skin disease, vermucidal, wounds.
15	AlpiniagalangaWilld	Zingiberaceae	Herb	Bulb	Kulanjan	Rheumatic pain, asthma, cough and cold, aphrodisiac and stimulant.
16	Alstonia Scholars R.Br.	Apocynaceae	Tree	Bark	Satian, Saptparni	Cholera, diarrhoea, fever, malaria, pneumonia, rheumatism, stomachache, ulcer of mouth, cholera, headache, neuralgia, pain in leg
17	Amaranthus spinosus Linn.	Amaranthaceae	Herb	Whole plant, seed, root	Kanta-bhaji, Kateli- chaulai,	Blood purifier, cough, cold, colic, eczema, piles, scorpion sting, snake bite.
18	Amorphophallus conopsea Blume	Araceae	Herb	Corn	Jangalisuran	Constipation, earache, inflammation throat, respiratory complaints, pimples, piles.
19	Andropogon paniculatus Nees	Acanthaceae	Herb	Whole plant, leaf, root	Kalmegh, Kariyatu	Cholera, colic, diarrhoea, dysentery, fever, filaria, malaria, stomach complaints, tonic,
20	Annona squamosa Linn.	Annonaceae	Tree	Seed, leaf, bark, fruit	Sharifa,	Abdominal pain, carbuncle, cold, cuts, dandruff, diarrhoea, dysentery, fits, guinea worm, hysteria, insecticidal, lice, menstrual complaints, purgative, spinal disease, syphilis, tonic, ulcers
21	Anogeissus pendula Edgew.	Combretaceae	Tree	Bark	Dhav, Dhaura, Kadamb	Dysentery, gastric disorders.
22	Anthocephalus cadamba (Roxb) Miq.	Rubiaceae	Tree	Bark		Antifertility, cholera, dysentery, pimple, sores
23	Argemone mexicana Linn.	Papaveraceae	Prickly herb	Seed, latex, leaf, root	Bhatkataia,	Boils, arthritis, asthma, caries, eye complaints, gum trouble, headache, inflammation, mouth wash, piles, ring worm, scabies, skin disease, syphilis, toothache
24	Argyrea speciosa Sw	Convolvulaceae	Climbing shrub	Leaf	Samudrasok	Antidote, boils, diabetes, small pox, sores, stomach complaints, syphilis.
25	Asparagus racemosus Willd.;	Liliaceae	Scandent shrub	Tuberous root	Satawar, Satmul	Aphrodisiac, rheumatism, bleeding from nose, galactagogue, lactation, gonorrhoea, impotence, leucorrhoea, menstrual complaints
26	Asphodelus tenuifolius Cav.	Liliaceae	Herb	Seed	Bbanpiyazi	Toothache, diuretic.
27	Azadirachta indica Juss.	Meliaceae	Tree	Bark, leaf, fruit	Neem	Antifertility, antipyretic, antiseptic, blood purifier, boils, cancer, cholera, cold, debility, diabetes, dyspepsia, febrifuge, inflammation gums, leprosy, malaria, measles, piles, post

S/N	Ethnomedicinal plant	Family	Habit	Plant part	Vernacular name	Ethenomedicinal Uses
						natal, scabies, skin disease, small pox, snake bite, ulcers, urine complaints, vermicide
28	Bacopamonneiri (Linn.) Pennell.	Scrophulariaceae	Herb	Whole plant	Brahmi, Chotibrahmi	Blood purifier, boils, epilepsy, eczema, nervine tonic, rheumatism, tonic for hair, tonic general.
29	Bambusaarundinacea (Retz.) Willd.	Poaceae	Shrubby or arborescent plant	Stem, blacksoot on clumps	Bans, Kantabans	Abortifacient, antifertility, wounds, cuts.
30	Barleriaprionitis Linn.	Acanthaceae	Under shrub	Leaf, bark	Vajradanti, Kansaraiya	Cough, dropsy, glands swelling, gum trouble, cold, piles, toothache
31	Basella alba var. rubra (Linn.) Stewart	Basellaceae	Succulent twining herb	Leaf	Poi	Constipation, syphilis, ulcer in nose.
32	Bauhinia purpurea Linn	Caesalpiniaceae	Tree	Bark, leaf, flower	Katmahuli,	Astringent, bone fracture, small pox, tumor in stomach, wounds, rheumatism, swelling.
33	Bauhinia variegata L.	Caesalpiniaceae	Tree	Bark	Kachnar,	Leprosy, malaria, piles, scrofula, skin disease, snake bite, ulcers, worms.
34	Biophytumsensitiveum (Linn.) DC	Oxalidaceae	Herb	Leaf	Chuimui, Lajwanti,	Antiepileptic, antifertility, antiseptic, bilious fever, burns, convulsion, cramps, cuts, wounds as haemostat, fever, decreases sexual vigour, diarrhoea, giddiness, headache, malaria, muscular and rheumatic pain, tonic
35	Blumealacera (Lour.) Merrill	Asteraceae	Under shrub	Leaf	Nirmudi, Purroh	Burns, cuts, wounds, bronchitis, fever, piles, toe injury, urine complaints.
36	Boerhaaviadiffusa Linn.	Nyctaginaceae	Herb	Root, leaf	Punarnava	Jaundice, kidney complaints, liver complaints, pain in abdomen, piles
37	Bombaxceiba Linn	Bombacaceae	Tree	Bark, leaf root	Semal	Acne, pimples, toothache, tubercular fistula, ulcer, urine complaints,
38	BoswelliaserrataRoxb. exColebr.	Burseraceae	Tree	Bark, resin, leaf	Salai,	Cold, cough, diarrhoea, dysentery, toothache, wounds
39	Buchananialanzan Spr.	Anacardiaceae	Tree	Bark, seed	Chironji, Piyar	Bronchitis, consumption, cough, diarrhoea, febrifuge, inflammation of gums, wounds.
40	Buteamonosperma (Lamk.) Taub.;	Fabaceae	Tree	Seed, flower, bark, leaf	Dhak, Palash, Tesu.	Abortifacient, antifertility, menorrhagia, piles, pimples, skin disease, stomachache, sun stroke, vermifuge, wounds.
41	Caesalpiniaabonduca (Linn.) Roxb.;	Caesalpiniaceae	Straggling, thorny shrub	Seed	Karanj, Kantkarej	Colic, fever, intermittent fever, malaria, menstrual complaints, skin disease, swelling, tonic
42	Caesalpiniaapulcherima (Linn.) Swartz	Caesalpiniaceae	Shrub	Seed	Puraiphul	Body ache, gum trouble, ring worm.
43	Calatropisgigantea (Linn.) R. Br.	Asclepiadaceae	Shrub	Latex, leaf, root	Madar, SafedAak	Abortifacient, body ache, boils, burns, ear complaints, ring worm, scabies, scorpion bite, skin disease, small pox, sprain, swelling, tooth ache, wounds.
44	Calatropisprocera (Ait)R.Br.	Asclepiadaceae	Shrub	Latex, leaf, root	Madar, Aak	Abortifacient, boils, skin disease, small pox, swelling, tooth ache, tooth worms, wounds.
45	Cannabis sativa Linn.	Canabinaceae	Herb	Leaf	Bhang, Ganja,	Anthelmintic, bowel complaints, cold, cough, epilepsy, cuts, dyspepsia, ear complaints, hydrocele, labour, laxative, narcotic, nervine

S/N	Ethnomedicinal plant	Family	Habit	Plant part	Vernacular name	Ethenomedicinal Uses
						stimulant, paralysis of tongue, sleep pills, sores.
46	Capparis decidua (Forsk.) Edgew.	Capparaceae	Sraggling labrous shrub	Leaf, stem	Karil	Appetizer, intestinal worms, tooth troubles including, pyorrhoea.
47	Carissa carandas L.	Apocynaceae	Shrub	Seed, root	Karonda, Karauna	Itch, rheumatism, sores, wounds.
48	Cassia fistula Linn.	Caesalpiniaceae	Tree	Leaf, fruit, seed	Amaltas	Asthma, blood purifier, chest infection, constipation, cough, swelling, toothache, vermicide.
49	Cassia occidentals Linn.	Caesalpiniaceae	Under shrub	Leaf	Barkachakwar,	Eczema, fever, gastric complaints, ring worm, skin disease, throat infection, whooping cough, wounds.
50	Cassia tora Linn.	Caesalpiniaceae	Herb	Leaf, seed, root	Chakwar	Anthelmintic, antiseptic, boils, cuts, eczema, ring worm, scabies, scorpion bite, skin disease, sores, vermicide, wounds.
51	Chlorophytum tuberosum Baker.	Liliaceae	Herb	Tuber	Safedmusli	Expectorant, fever, leucorrhoea, sex tonic.
52	Chromolaena odorata Linn.	Asteraceae	Shrub	Root, leaf, whole plant	Gandhuri, Kusuri,	Burn, cuts, dysentery, gastric complaints, sprain, to stop bleeding, wounds
53	Citrullus colocynthis (Linn.) Schrad	Cucurbitaceae	Woody Climber	Fruit	Indrayan	Abortifacient, galactagogue, purgative, stomachache
54	Cleome gynandra L.	Cleomaceae	Herb	Leaf, seed	Hul-hul,	Asthma, cough, ear complaints, eye disease, fever, headache, round worm, scorpion bite, skin disease, stiff neck, vermicide, wounds
55	Cleome viscosa L.	Cleomaceae	Herb	Seed, leaf	Jangali - hurhur,	Anthelmintic, boils, checks pus formation, ear ache, fever, headache, inflammation ear, wounds
56	Clerodendrum viscosum Vent.	Verbenaceae	Woody Shrub	Root, leaf	Bhant, Bhates	Anthelmintic, body ache, boils, burns, cuts, skin disease, sores, swelling, ulcer, wounds.
57	Clitoria ternatea Linn.	Fabaceae	Climber	Root, seed	Aparajita	Abortifacient, goitre, stomach ache, swelling
58	Convolvulus arvensis Linn.,	Convolvulaceae	Climber	Root	Birihara, Hirankhuri;	Purgative.
59	Cordia myxa Roxb.	Boraginaceae	Tree	Leaf, fruit	Lisora	Antihelmintic, chest infection, lung disease, cholera, cold, colic, constipation, cough, expectorant, fever, headache, urine disease, urticaria
60	Curculigo orchioides Gaertn.	Amaryllidaceae	Tuberous geophilous herb	Root, rhizome	Kali musli	Abortifacient, asthma, cough, cuts, filaria, fever, galactagogue, impotence, itching, leucorrhoea, nose bleeding, piles, bleed, tonic, unconsciousness of children, wounds.
61	Cuscuta reflexa Roxb.	Convolvulaceae	Climber	Whole plant	Akasbel, Amarbel,	Body ache, burns, cuts, cold, cough, diphtheria, displaced knee cap, fall of hairs, skin disease, stomach ache, swelling of leg, testicles and body, wounds.
62	Cynodon dactylon (Linn.) Pers.	Poaceae	Herb grass	Whole plant	Doob, Durba	Snake bite, stops bleeding, wounds.
63	Cyperus rotundus Linn.	Cyperaceae	Herb grass	Bulb, root, whole plant	Motha	Astringent, bowel complaints, heat stroke, sores wound, urine complaints.
64	Dalbergia sissoo Roxb.	Fabaceae	Tree	Leaf, stem	Shisham	Eruptions, headache, leprosy, skin disease
65	Datura innoxia Mill;	Solanaceae	Under shrub	Leaf, fruit	Dhatura	Asthma, boils, rheumatism

S/N	Ethnomedicinal plant	Family	Habit	Plant part	Vernacular name	Ethenomedicinal Uses
66	Daturametel Linn.	Solanaceae	Under shrub	Leaf, fruit, root	Kala-dhatura,	Asthma, blisters, boils, cough, cramps, fistula, gonorrhoea, headache, hydrocele, leprosy, mumps, piles, rheumatism, ring worm, small pox, tooth decay, urticaria, whooping cough, wounds.
67	Dendrophthoea (L. f.) Etting.	Loranthaceae	Stem parasite herb	Stem, whole plant	Banda	Abortifacient, antifertility, brain tonic, headache, impotence
68	Desmodium gangeticum (L.) DC.	Fabaceae	Under shrub	Root, whole plant	Salparni	Antidote to snake venom, asthma, bronchitis, cough
69	Dioscorea bulbifera L.	Discoreaceae	Climber	Tuber	Ratalu	Abdominal pain, boils, dysentery, piles, jaundice
70	Diospyros melanoxylon Roxb.	Ebenaceae	Tree	Bark, fruit	Kendu, Tendu	Dysentery, skin disease
71	Diplocyclos palmatus (L.) C. Jeffrey	Cucurbitaceae	Tendrill climber	Seed,	Shivlingi	Asthma, cholera, colic, constipation, post natal complaints, promotes fertility in women.
72	Drypetes roxburghii (Wall.) Huru.	Euphorbiaceae	Tree	Fruit	Putranjivah, Jivputrak,	Aphrodisiac, anti-inflammatory, elephantiasis, eye infection, habitual abortion and sterility, laxative.
73	Echinopsechinatus Roxb.	Asteraceae	Herb	Root, whole plant	Gokrul	Fever, malaria, skin disease
74	Eclipta prostrata L.	Asteraceae	Herb	Leaf, whole plant	Bhringraj	Asthma, bronchitis, itching, jaundice, promotes hair growth, toothache.
75	Euphorbia hirta Linn,	Euphorbiaceae	Herb	Whole plant	Dudhi,	Burns, cough, cuts, eczema, excess lactation, eye complaints, kidney disease, lactation complaints, pain in joints, postnatal complaints, wart.
76	Euphorbia hypericifolia L.	Euphorbiaceae	Herb	Leaf	ChotiDudhi	Dysentery, diarrhoea, leucorrhoea.
77	Evolvulus alsinoides L.	Convolvulaceae	Herb	Root, leaf, whole plant	Shankhpushpi	Aphrodisiac, asthma, bronchitis, dysentery, fever, leucorrhoea,
78	Ficus benghalensis L.	Moraceae	Tree	Latex, arial root, fruit	Bar, Bargad,	Diabetes, gum trouble, leucorrhoea, promotes hair growth, scabies, sex disease, skin disease, snake bite, scores in mouth, spermator, tonic, tooth ache,
79	Ficus caurica L.	Moraceae	Tree	Latex	Anjir	Boils, eruptions, skin disease
80	Ficus hispida L.	Moraceae	Tree	Fruit, latex	Kathgular,	Emetic, purgative, ulcers in mouth
81	Ficus racemosa L.	Moraceae	Tree	Latex, fruit, bark	Gular	Astringent, blisters, boils, carminative, dermatitis, diarrhoea, dysentery, leprosy, menstrual complaints, piles, cracks on heel
82	Ficus religiosa L.	Moraceae	Tree	Leaf bark, fruit	Pipal	Blisters, boils, ulcer, scabies, skin disease, small pox, snake bite, sores in mouth
83	Fumaria indica (Haussk.) Pug.	Fumariaceae	Herb	Whole plant	Pitapapra,	Anthelmintic, blood purifier, body ache, diarrhoea, diuretic, fever, flue, indigestion, liver complaints, skin disease
84	Gloriosa superba L.	Liliaceae	Climbing Herb	Rhizome	Kalihari	Abortifacient, infertility, facilitates child birth, gonorrhoea,
85	Grewia hirsuta Vahl	Tiliaceae	Shrub	Root	Nagbala,	Blisters, boils, cuts, dysentery, inflammation, wounds
86	Grewia subinaequalis DC	Tiliaceae	Tree	Fruit, root	Phalsa	Boils, cooling in fever, debility, stomachache, inflammation
87	Gymnema sylvestre (Retz.) R.Br.	Asclepiadaceae	Woody climber	Leaf	Gurmar,	Eye disease, cornea opacity, diabetes, gastric disease,

S/N	Ethnomedicinal plant	Family	Habit	Plant part	Vernacular name	Ethenomedicinal Uses
						stomachache, urine complaints.
88	Helicteresixora Linn.	Sterculiaceae	Large shrub	Fruit, root, bark	Marorphali	Cholera, cold, colic, cough, diarrhea, dysentery, ear complaints, eczema, intestinal germs, stomachache
89	Heliotropiumindicum L.	Boraginaceae	Herb	Inflorescence, whole plant	Siriyari	Astringent, emollient, vulnerary and diuretic, ulcers, sores, wound, skin infections, stings of insect, ulitis and rheumatism
90	Holarrhenaantidysenterica Wall.	Apocynaceae	Tree	Bark, seed	Indrajav, Koraya	Constipation, diarrhoea, digestive complaints, dysentery, gastric disorder, stomachache, worms.
91	Holoptelea integrifolia (Roxb.) Planch.;	Ulmaceae	Tree	Bark, leaf	Chilbil	Boils, bone fracture, inflammation body, rheumatism, ring worm, scabies
92	Hygrophila auriculata (Schum.) Heine.	Acanthaceae	Herb	Leaf, whole plant	Talmakhana	Diuretic, dropsy, tubercular fistula.
93	Hyptissuaveolens (Linn.) Poit.;	Lamiaceae	Herb	Leaf, whole plant	Ban tulsii, Gandhuphul	Fever, headache, toothache, wounds
94	Ipomoea aquatica Forsk.	Convolvulaceae	Creeping Herb	Whole plant	Kalmi-sag, Karmuaka sag	Boils, liver disease, purgative
95	Justicia adhatoda Linn.	Acanthaceae	Shrub	Leaf, root	Adusa, Vasak	Asthma, , bronchitis, cough, expectorant, febrifuge, malaria, pulmonary infection
96	Lantana camara Linn	Verbenaceae	Large scrambling shrub	Leaf	Galphusia,	Itching, ring worm
97	Lawsonia inermis Linn.	Lythraceae	Shrub	Leaf, seed	Menhdi	Burning sensation, headache, pain in muscle, sprain, weakness,
98	Leucas cephalotus (Roth) Spreng.	Lamiaceae	Herb	Leaf, flower, whole plant	Gumbi,	Cold, constipation, cough, diarrhoea, earache, eye disease, fever, headache, malaria, piles, gum trouble, wounds.
99	Limonia acidissima Linn.	Rutaceae	Tree	Fruit bark	Kaitha	Asthma, bronchitis, body pain, diarrhoea, digestive complaints, dysentery,
100	Madhuca longifolia (Koen.) Mac Br.	Sapotaceae	Tree	Flower, bark, seed oil	Mahua	Astringent, bronchitis, burns, chest pain, colic, cough, pneumonia, toothache, ulcer.
101	Mallotus philippinensis Muel	Euphorbiaceae	Tree	Fruit, seed	Kamela, Kampilak	Anthelmintic, blisters, boils, skin disease, snake bite, sores, tonic for pregnant women, ulcers, vermifuge
102	Mannihotes culenta Crantz	Euphorbiaceae	Shrub	Leaf	Kasava	Skin disease, diarrhea, malaria, irritable bowel syndrome.
103	Mimosa pudica Linn.	Mimosaceae	Under shrub	Root, leaf	Chhuimui, Lajouni,	Child birth, diuretic, dysentery, epilepsy, fistula, gum trouble, headache, leucorrhoea, loose motion, piles, toothache, wounds
104	Momordica dioica Roxb. ex Willd.	Cucurbitaceae	Climber	Root, fruit	Bankarel,	Pain in breast due to swell, piles, bronchitis, dysentery, diabetic problem
105	Mucuna pruriens (L.) DC	Fabaceae	Climber	Seed, fruit	Kevach, Konch	Night dreams, ring worm, round worms, scorpion bite, snake bite, sores, vermifuge
106	Nelumbo nucifera Gaertn.	Nelumbaceae	Aquatic herb	Seed, flower	Kamal, Kanwal,	Astringent, diarrhoea, cholera, tonic
107	Nyctanthes arbor-tristis L.	Nyctaginaceae	Tree	Bark, leaf	Harsingar, Parijat, Shihor	Cough, dysentery, fever, hiccups, intestinal injuries, malaria
108	Ocimum basilicum Linn.	Lamiaceae	Herb	Leaf	Babui-tulsi	Cholera, cough, cramp, earache, fever, headache, stomachache
109	Oxalis debilis H.B.K. var.	Oxalidaceae	Small herb	Rhizome, leaf	Khatti-booti	Antidote toxicity

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	corymbosa (DC.) Lour.					
110	Peristrophe paniculata (Forsk.) Burm.f.	Acanthaceae	Under shrub	Whole plant	Chirchiri,	Fracture, sprain, rheumatism
111	Phyllanthus emblica Linn.	Euphorbiaceae	Tree	Fruit, leaf, bark	Aonla,	Burns, cold, constipation, diuretic, dysentery, eye trouble, indigestion, liver complaints
112	Phyllanthus fraternus Webst.	Euphorbiaceae	Herb	Whole plant	Bhui-amlā	Gastric disease, jaundice
113	Physalis minima Linn.	Solanaceae	Herb	Leaf, whole plant	Rasbhari	Abdominal disorder, stomachache.
114	Plumbago zeylanica L.	Plumbaginaceae	Shrub	Root	Chitrak	Abortifacient, antifertility, diarrhoea, dysentery, indigestion
115	Pterocarpus marsupium Roxb.	Fabaceae	Tree	Wood, bark, resin	Bijasal, Vijay Sal	Cholera, chest pain, cooling, diabetes, diarrhea, dysentery, fever
116	Pueraria tuberosa (Willd.) DC.	Cucurbitaceae	Climber	Tuber, root	Patal-kumra, Ghoar-bel	Abdominal pain, antiemetic, asthma, body ache, chest pain, cholera, diarrhoea, fever, lactation, menorrhagia, rheumatism, skin disease, swelling, syphilis, tonic, ulcer.
117	Rauwolfia serpentina (L.) Benth. ex Kurz.	Apocynaceae	Under shrub	Root	Sarpagandha,	Abortifacient, anthelmintic, antidote snake bite, blood pressure, checks vomiting, fever, insanity, insomnia
118	Ricinus communis L.	Euphorbiaceae	Small tree	Seed, leaf	Arandi, Rendi	Boils, burns, contraceptive, dropsy, heat stroke, hydrocele, injuries, joint pain, muscle pain, rheumatism, sciatica
119	Rumex dentatus L.	Polygonaceae	Herb	Whole plant	Jungali palak	Sunstroke
120	Shorea robusta Gaertn. f.	Dipterocarpaceae	Tree	Bark, resin	Sakhu, Sal	Burning sensation, chest pain, cholera, cramp, diarrhoea, skin infection, small pox, sores, fistula, tumor, wounds
121	Sidacordifolia L.	Malvaceae	Under shrub	Root, leaf,	Bariyari ,	Boils, dysentery, leucorrhoea, sexual weakness , wounds
122	Sidarthombifolia L.	Malvaceae	Under shrub	Root, leaf	Bariara,	Boils, child birth, fever, gum infection, swelling, tonic, wounds
123	Solanum nigrum L.	Solanaceae	Under shrub	Fruit, leaf, whole plant	Makoi	Antidote to opium toxic, boil, fever, goitre, piles, sores, sprain, stomachache, swelling, ulcers in mouth, urine complaints.
124	Solanum surattense Burm. f.	Solanaceae	Under shrub	Fruit, root, whole plant	Bhatkataiya	Cough, pyrrhoea, swelling, toothache, tooth decay
125	Sphaeranthus indicus L.	Asteraceae	Herb	Whole plant	Gorak-mundi, Mundi	Anhelminthic, blood purifier, cough, eye disease, jaundice
126	Spilanthes acmella L.	Asteraceae	Herb	Flower	Akarkara	Affections of throat and gums, toothache
127	Tamarindus indica L.	Caesalpiniaceae	Tree	Leaf, fruit, seed	Amli, Imli	Boils, cold, cough, eye complaints, muscular pain, stomachache, sunstroke, swelling, syphilis, toothache
128	Tephrosia purpurea (Linn.) Pers.	Fabaceae	Herb	Root	Sarpokha	Blood purifier, bronchitis, fever, piles, stomachache, toothache
129	Terminalia arjuna (Roxb. ex DC.) Wt. and Arn.	Combretaceae	Tree	Bark, leaf	Arjuna	Heart disease, tonic, wounds
130	Terminalia bellerica (Gaertn.) Roxb.	Combretaceae	Tree	Fruit	Bahera	Cold, constipation, gastric complaints, intestinal complaints, muscular pain, piles, stomachache

S/N	Ethnomedicinal plant	Family	Habit	Plant part	Vernacular name	Ethenomedicinal Uses
131	Terminalia chebul a Retz.	Combretaceae	Tree	Fruit	Harra,	Cold, constipation, eczema, measles, menstrual complaints, sore in throat, stomach complaints
132	Tinosporacordifolia Miers	Menispermaceae	Climber	Leaf, stem, whole plant	Giloe, Guduchi	Antipyretic, aphrodisiac, cough, debility, fever, jaundice, malaria, sex strength, tonic
133	Tridax procumbens L.	Asteraceae	Herb	Leaf, whole plant	Phulani,	Blisters, boils, cuts & wounds, eczema, eye disease, leprosy, sores, stomachache, toothache, ulcers
134	Urenalobata L.	Malvaceae	Under shrub	Root	Boriyal	Diarrhoea, dysentery, hyperacidity
135	Vanda tessellata (Roxb.) Hook. ex G. Don.	Orchidaceae	Epiphytic herb	Aerial root, whole plant	Banda,	Bone fracture, earache & pus, eye disease, rheumatism
136	Withania somnifera Dunal	Solanaceae	Under shrub	Leaf, root	Asgandh	Aphrodisiac, bronchitis, chest complaints, rheumatism
138	Woodfordia fruticosa (Linn) Jourz	Lythraceae	Shrub	Flower	Dhai, Dhavai	Bleeding in pregnancy, loss of appetite in pregnancy, menorrhagia
139	Wrightia tinctoria Br.	Apocynaceae	Tree	Bark, leaf, latex	Khirna	Dysentery, piles, toothache, wounds.
140	Xanthium strumarium Linn.	Asteraceae	Under shrub	Root, leaf, seed	Gokhru	Boils, herpes, piles, rheumatism, ring worm, toothache
141	Zizyphus mauritiana Lamk.	Rhamnaceae	Shrub	Fruit, leaf	Ber, Beri,	Blood purifier, dysentery, fall of hair, stomachache, ulcers, wounds, whooping cough.
142	Zizyphus nummularia (Burm.f.) Wt. and Arn.	Rhamnaceae	Shrub	Fruit, root, bark	Jhar-beri	Boils, inflammation gums, jaw ache
143	Zizyphus oenoplea (L.) Mill.	Rhamnaceae	Shrub	Fruit, bark, leaf	Makkay	Blood purifier, febrifuge, indigestion, piles, swelling, wounds.

Map of Sonbhadra districts.



4 DISCUSSION AND CONCLUSION

The presence of large no. of ethno medicinal plant species indicates that the area has diversity of medicinal plants. The study also indicates that the ethnic people of the area largely depend on the wild medicinal plants for cure of their ailments. Due to lack of the government health facilities in this district the people the largely depend on the traditional health system for this reason medicinal plant this area go toward threatened stage.

Medicinal plant in those area used in a modern therapeutics for ex serpentine from Raulolfiaserpentine treatment for hypertension, Vinblastine from Cathranthusroseus used against cancer Strychnusnux-vomica seed extract inhibited viper venom involved lipid per oxidation in animals.

Medicinal plants are an integral part of the ethno botanical aspect of the people in India there is no doubt that the modern medicine system has evolved from folk medicine and traditional system only after through chemical and pharmaceutical screening.

Traditional system is based on plant derived products, modern products on synthetic chemical producing modern system so costly not affordable to all the people so that traditional system used as the main source of drugs.

Synthetic medicine can cause side effects and as a result people are more favourite to use natural compound obtained from plants.

In recent time, plants are rapidly exploited for commercially production of synthetic products.

Government sectors and NGO's and individual in the private sector are making effort to conserved plants, traditional knowledge and going in the form of documentation for the conservation of medicinal plants educate the tribal people, student and practioners for conserving to medicinal plants.

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