

www.ijaar.co.in



ISSN – 2347-7075 Peer Reviewed Vol.9 No.6 Impact Factor – 7.328 Bi-Monthly July – Aug 2022



STUDY OF SOME MEDICINAL PLANTS IN BOHALGHAT , BALRAMPUR (C.G.)

Laxmi Singh¹ Dr. Deepa Biswas²

¹PhD Research scholar department of Botany,Kalinga University Raipur ²Associate professor head of botany department, Kalinga University Raipur,(C.G)

Corresponding Author- Laxmi Singh

E-Mail ID: https://www.action.com Band States and S

DOI- 10.5281/zenodo.13347403

Abstract

Bohalghat is one of the richest biodiversity having rich vegetation, which need to be discovered, documented and look over .The Bohalghat is the part of Shankargarh block of Balrampur district on the road of Ambikapur Viz Ranchi .Bohalghat located in the northern part of Chhattisgarh state in central India .Estimated 50% - 60% of the population depends exclusively on traditional and herbal medicine for healing some type of diseases . The local people have very rich knowledge of medicinal plant and it is used by them for their health and livelihood security. A total number of (55) medicinal plant species belonging to (36) families were recorded .This chapter highlights some alternative and very safe medicinal plants of Bohalghat plant vegetation with good effects in our human body. Tribes people of Shankargarh block play very important and significant role in management of environmental problems . They know the importance of plants and forest for their survival. Hence , they were practicing sustainable use of the plant resource. The main aim of present study of Bohalghat is to explore the range of some medicinal plants by the local tribes in Shankargarh block of Balrampur district.

Keywords: Medicinal plants, Bohalghat, Balrampur, Tribes people

Introduction

Bohalghat of Balrampur district nature is the most of divine creation of God around us, it is considered an integral part of mankind. Nature has bestowed us with water, air , plants, animal and much more to make us survive Shankargarh on our block.Medicinal plants of Bohalghat of а wide range biological have properties which need to be documented, discovered and explored. Remote area is rich in natural vegetation. The climatic conditions of our block like medium humidity, frequent rainfall, moderate to mild temperatures, without any extreme heat or cold weather and definitely edaphic factor like high quality of soil fertility contribute to grow healthy plants .A medicinal plants is any plant which is one or more of its parts contain

that can be used for medicinal purposes are precursors or which for the synthesis of useful drugs . Medicinal plants also called medicinal herbs, have been discovered and used in traditional medicine practices since prehistoric times . Approximate 70-80 % of the Balrampur district population still depends exclusively on traditional or herbal medicines for treatment of any type of diseases. Tribes population of remote area who have does not any formal medicinal training it considered being completely to provide health care using plants and it's part.

Native people of Shankargarh have exploited a variety of herbal medicine for effective curing various ailments. People of Shankargarh are the well-wishers, protectors and preservers of their ecosystem.Human activities in

be done remote areas must in ล sustainable way to ensure the development of plant vegetation.Survival of mankind without nature is not possible and human of Bohalghat understand it very clearly. Tribes and local population think very politely if nature has ability to protect and provide us .it is also powerful and able to destroy the entire mankind. They live in a close harmony with nature and maintain relationships between human In such scenario the present being. work concluded that the tribes and local people of Shankargarh possess rich knowledge on the medicinal plants and their utilisation. The population of study area is predominantly characterized by tribal communities comprising of Baiga, Khairwar, Gond ,Kanwar, Panika, Uroan ,Koraku . All tribes communities significant knowledge possess of medicinal plants and associated traditional practices.

Objective

The present work shall be undertaken with the following objectives

A-Identification of plants used in Medicine.

B-To study the socioeconomic profile of the tribes in Bohalghat.

C-To Document the traditional knowledge of the tribes about the usefulness of the plants used in festival. D-To study the conservation aspect of those plants used in medicine and festival.

Methodology

The data illustrated in this work is based on the first hand information obtained from tribal and rural people of Bohalghat.The present study was made between the July 2019 to June 2022 by visiting different localities of study area in different seasons to get the relevant information about medicinal plants which is used by the local people of this area. During field work some tribes community people Pahali korva ,kanvar ,baiga, khairwar person accompanied us into the forest . Information center of the district government and forest map were also used for the selection of the thrust areas for easier botanical exploration which includes the local village of tribal people, forest villages, local markets and herbal practitioners and their rich private medicinal garden, medicinal plants nurserv of the government etc. Besides the research scholar attended and participate in many cultural and religious ceremonies throughout the study area like Karma Sarhul, Nawakhani, Jiotia pooja, Teeja etc.

Medicinal plant data were collected of by means a open questionnaire and interview, consultation with the herbal traditional healers, practitioners and experienced old folk . Full efforts were made by us for the collection of plants in their ambient flowering and fruiting stage as far as possible from their natural habitat.A standard questionnaire was conducted by visiting to gain information on medicinal plants with their local name, parts used, method of and preparation also mode of unfortunately administration. But questionnaire approach was not possible to get details data hence an informal conversation was adopted . During field survey most of the medicinal plants were collected directly from the forest, agricultural fields, foot hills, upper hills and river belts .

The gathered field information was analysed to know clear and updated picture of the some medicinal plants which are present in study area of Balrampur. То find the perfect medicinal plants stock picture photography is also done in different seasons.Photography is a way to ensure ,record, and communicate with others visually what we see . Standardized high resolution digital DSLR camera, and mobile phone camera used for

photography. Ethnobotanical importance of the collected plant species was recorded following the open ended door to door interactions and interview also conducted with the knowledgeable inhabitannts at Bohal-ghat .Both gender male and female person which belongs different age groups, economic status, labourers.landless farmers. wagers interviewed person were for the collection of depth information about medicinal plants and it's parts. The consent of the informants was taken verbally and their name, village name and age were recorded . Most of the informants were illiterate but their traditional knowledge about medicinal plants was very rich and strong.All the local informants, medicine men local healers were selected based on their knowledge of medicinal plants. In the first stage provisional identification of the Collected specimens was done in Taxonomy. Collected plant species were also identified by using of Bentham and Hooker's classification. Efforts have been made to use the latest and correct scientific name's for the collected taxa and after consulting the revision works of related plant specimen.

Data collection-

The data for the PhD work were collected mainly from the Primary sources and Secondary sources keeping in mind view the subject of the current quantitative and study. qualitative of the data aspects were given importance.It included the available updated printed material on the medicinal plants and herbs which are mostly used in traditional healing.

Method adopted for primary data collection -

The following given main methods and techniques were used for collection of primary data-

(a)- Questionnaire :- For the Primary data collection from the sample villages detailed questionnaire was designed . Data was collected from each villages by direct interview, local conversation, group discussion with villages people, Panchayat Sachiv, Sarpanch, Patel, Baiga, Traditional healers, Local Tribes, Block forest officer, Vanpal. In addition to the above interviews with forest officials, stakeholders and chief executive of the NGOs were also conducted.

(b) -Survey method – The floristc and Ethnobotanical account is not easy unless one can be able to walk under the tree line and reach tribal area and villages of forest .Confusing rides and slopes ,tough terrain are some majar natural barriers for the study . Based on the gathered information and personal experience of previous year ,a plan of action for collection of ethnomedicinal information and medicinal plant was prepared by us .

(c)- Focus group discussions- In order to perspectives collective from local members. community focus group consultations will be organized. А discussion guideline will be prepared for the conducting the discussions. Discussion were held in the study area with traditional healers, feild guide, local herbal practitioners. vendors.tribe ethnic groups and also experienced old senior rural folk people's.Data from the discussions focus group will be documented in writing and through audio visuals.

(d) Field observation _ Field observation is important another instrument for collecting qualitative data, especially for socio-cultural and environmental impacts of with local people and the impacts of such interaction. Data recorded through field observation will be immediately documented. Secondary data has been collected by reasearch scholar from various agencies . The main sources of information about medicinal plants and respective knowledge are given below:-

(1)Balrampur forest department records, complete annual administrative reports.(2)Records of Revenue Department. (3)Published data of Agriculture Department Balrampur District.

(4)Records of Semarsot wildlife sanctuary, Balrampur C.G.

(5)NGOs department data of Balrampur District

Results and Discussion

The present study has revealed that the local inhibitants of Bohalghat were

generally using about 55 species of [36] families There is an urgent need of documentation of this irreplaceble knowledge. It may lost when traditional collapse with advent of modernization. Given table shows data related to plants which are used in different diseases in our Bohalghat area :-

S.N	Botanical	Common	Family name	Uses
•	name	name		
1	Achyranthes aspera	Chirchitti	Amaranthacea e	Antibacterial, hypoglycemic, antihyperlipidemic, antiperiodic
2	Acorus calamus	Bach	Acoraceae	Stomach pain, skin disorder, piles
3	Adhatoda	Wasak	Acanthaceae	Cough, asthma, breathing trouble,
	vasica			nasal congestion
4	Adina cordifolia	Karam	Rubiaceae	Skin diseases, wounds, vomiting, intestinal worms
5	Aegle marmelos	Bel	Rutaceae	Diabetes,acne,allergy, digetion problem , headache, heatstroke
6	Aloe vera	Giloy	Liliaceae	Constipation,intestinal wound,antioxidant, weight loss dendruff, skin problem
7	Amorphophallu s campanulatus	Jimi kanda	Araceae	Diabetes, piles , joint pain, indigetion
8	Anogeissus latifolia	Dhaura	Combretaceae	Fever,liver complaints,skin diseases,
9	Antidesma	Aamat sag	Phyllanthacea	Fever, cough, diabetes, against
	acidum		e	dysentery,vomiting,indigetion,
10	Argemone mexicana	Satyanashi	Papaveraceae	Dropsy, jaundice, gonorrhea, leprosy, scabies,fever, skin diseases, ulcer and hepatic
11	Asparagus racemosus	Satawar	Asparagaceae	Immunomodulatory activity, anti-ulcerogenic, antioxidant activity, anti-cancer, Anti-diabetic, anti- Candida, anti-inflammatory, antidiarrheal, antimicrobial, antidepressant, aphrodisiac, adaptogenic
12	Azadirachta indica	Neem	Meliaceae	Skin diseases, healthy hair, improve liver function, detoxify the blood, Pest and disease control, fever reduction, dental treatments, cough, asthma, ulcers, piles, intestinal worms, urinary diseases
13	Benincasa hispida	Raksa	Cucurbitaceae	Epilepsy, lung diseases, asthma, cough, fever, gonorrhoea and insanity, nervous diseases, urinary dysfunction, wounds and vaginal

IJAAR

				discharges
14	Boerhaavia diffusa	Punarnava	Nyctaginaceae	Epilepsy, hysteria, gastritis, jaundice, fever, convulsion, asthma, dysentery and diarrhea
15	Buchnania cochinchinesis	Piyar	Anacardiaceae	Gastritis,Burning sensation, Fever, Aphrodisiac, Excessive thirst.
16	Calotropis procera	Aak	Apocynaceae	Digestive disorders including diarrhea, constipation and stomach ulcers; for painful conditions including toothache, cramps, and joint pain; and for parasitic infections including elephantiasis and worms.
17	Cannabis sativa	Bhang	Cannabinacea e	Treatment of pain loss of appetite, depression , insomnia, asthma and spasms
18	Carica papaya	Papita	Caricaceae	Warts, corns, sinuses, eczema, cutaneous tubercles, glandular tumors, blood pressure, dyspepsia, constipation, amenorrhoea, general debility
19	Carisa carrandas	Karonda	Apocynaceae	Colic, oedema, hepatomegaly, splenomegaly, indigestion, cardiac diseases, amenorrhoea, improve digestion, anthelmintic and antimicrobial, Fever
20	Cassia fistula	Bandarlou di	Fabaseae	It is used for treating constipation, fever, digestive troubles and skin diseases. Its fruit pulp along with some other herbs is cooked in water to prepare decoction which is used to treat fever and related complications
21	Cassia tora	Chakod	Caesulpinacea e	Treating skin diseases like ringworm and itching or body scratch and psoriasis, Fever leprosy, flatulence, colic, dyspepsia, constipation, cough, bronchitis and cardiac disorders.
22	Centela asiatica	Beng sag	Apiaceae	It Boosts Memory Power, It Cures Fever, It Removes Stains On Teeth, It Cures Skin Diseases, It Helps Recover From FatigueIt is a Remedy for Cold and Asthma, For Anemia, For Decreased Libido Chronic Ulcers, Eczema, Psoriasis
23	Cheilocostus speciosus	Keu kanda	Costaceae	Wounds, Cuts, Snakebites,Curing liver disorders, Skin eruptions, Blotches, Pimples, Diarrhe a, Sore throats.
24	Cissus quadrangularis	Hadjod	Vitaceae	Hemorrhoids, Obesity, Allergies, Asthma, bone loss, gout, Diabetes, high cholesterol

25	Curcuma caesia	Kali haldi	Zingiberaceae	It is used in treating leucoderma,
20	Curcuma caesia	Kall halui	Zingiberaceae	asthma, tumours, piles, bronchitis,
				bruises etc
26	Cuscuta reflexa	Banda	Convulvulacea	Treatment of bilious disorder. The
20	Cuscula reflexa	Danua	e	whole plant is purgative. It is used
			e	internally in the treatment of body
				pain and itchy skin. The plant is
				employed in Ayurvedic medicine to
				treat difficulty in urinating jaundice ,
				muscle pain and coughs
27	Cynadon	Dubghass	Poeaceae	Treatment of fever, ulcer, stomach
21	dactylon	Dubgilass	1 deaceae	infection and other health problems.
	uuciyion			Doob grass is rich in phosphorus,
				calcium, sodium, potassium proteins,
				carbohydrates, alkaloids and flavonoids.
28	Cuparua	Mothaban	Cuporeceso	Diaphoretic, diuretic, analgesic,
20	Cyperus rotundus	momanall	Cyperaceae	antispasmodic, aromatic, carminative,
	Totunaus			antitussive, emmenagogue, litholytic,
				sedative, stimulant, stomachic,
				vermifuge, tonic and antibacterial.
29	Datura alba	Dhatura	Solanaceae	Asthma, cough, and other respiratory
20	Datara atoa	Dhatara	Doranaeeae	diseases. Relieve pain related to
				various diseases such as kidney
				stones, acidity,
30	Elephantopus	Menjurchu	Asteraceae	Headaches, colds, bronchitis, cardiac
00	scaber	ndi	risteraceae	tonic, and diuretic, and is used for
	564567	iiui		eczema, rheumatism, fever, and
				bladder stones,
31	Embelia ribes	Vai vidang	Myrsinaceae	It gives comfort from a headache
01		, at theating	1.191.811140040	when the leaves are rubbed on the
				head. It is also used to treat mouth
				ulcers. The root bark is also used for
				the treatment of
				piles,epilepsy,insomia,indigetion
32	Euphorbia hirta	Dudhi	Euphorbiacea	It is used in the treatment of cancer,
	1		e	diarrhea, dysentery,
			-	jaundice, asthama , intestinal problem
				, bronchitis, fever, eyelid styes, cough,
				asthma, bronchial infections, bowel
				complaints, helminthic infestations,
				wounds, kidney stones and abscesses
				etc
33	Gymnema	Gudmar	Asclepiadacea	Helps Fight Diabetes, Aids Weight
	sylvestre		e	Loss, Improves Cholesterol Levels,
	-			Improves Arthritis Symptoms, Fights
				Cavities, Regulates Immune System,
34	Hygrophila	Talmakhan	Acanthaceae	The plant used in traditional medicine
	auriculata	a		to cure rheumatic arthritis, kidney
				infection, jaundice, oedema, gout and
				as an aphrodisiac, lupeol, fatty acid
	·			

				,and alkaloids.
35	Indiagofera tinctoria	Jirhul	Fabaceae	Reduce fever , alleviate pain reduce inflammation, clean the liver and detoxify the blood
36	Kalanchoe pinnata	Patthar chatta	Crassulaceae	Cold and fever ,oral health, back pain, sun burn, and antibacterial, anti- inflammatory, antiviral, and antifungal , arthritis, hypertension and headaches.
37	Linum usitatissimum	Teesi	Linaceae	Fever, menstrual crumps ,obesity, digestive problem
38	Macrotyloma uniflorum	Kurthi	Fabaceae	Kidney stones, inflamed joints, fever, musculoskeletal disorders, sinus wounds and localized abdominal tumors
39	Madhuca longifolia	Mahua	Sapotaceae	Bronchitis and coughs, Rheumatism, Diabetes, Piles, Orchitis, Skin Disorders, Eczema, Tonsilitis, Bleeding Gums and Problem Of Breast Milk Secretion
40	Oxalis purpurea	Khati buti	Oxalidaceae	Insects bite, digestive problems, fever
41	Phoenix sylvestris	Chind	Arecaceae	Gonorrhea, fevers, loss of consciousness, constipation and in heart complaints, abdominal complaints
42	Phyllanthus emblica	Amla	Phyllanthacea e	Diarrhoea, diabetes, fever, gonorrohoea, headache, piles, gout, eye disorder, nose bleed
43	Phyllanthus niruri	Bhumi amla	Phyllanthacea e	Liver health, hepatitis B, antioxidant benefits, kidney stones, anti- inflamation, gastric ulcers, bladder infections, diarrhea
44	Pongamia pinnata	Karanj	Fabaceae	Digestive, stomach, antihelmintic and are suitable for diarrhea, leprosy, dyspepsia and cough, diabetes,chronic fever, anemia and hemorrhoids
45	Shorea robusta	Sarai	Dipterocarpac eae	Headache, earache, cough, gonorrhea, leprosy, wound, diarrhoea, dysentery, ulcers and vaginal discharges
46	Sida acuta	Bariyar	Malvaceae	Headache, leucorrhoea, diabetes tuberculosis, malarial, fever uterin disorder, asthma, ulcer, childbirth and worm
47	Smilex zeylencia	Ranpawan	Smilacaceae	Skin diseases, syphilis, gonorrhea, and acts like a blood purifier.
48	Swertia chirata	Chiraita	Gentianaceae	Liver disorder, Hepatitis-B, Chronic fever and Malaria, Diabetes, Digestive disorder, Worms, Blood purification, Epilepsy, Cancer, Hypertension, Skin

				diseases, Hepatotoxic disorder, Constipation, Anemia, Dyspepsia
49	Terminalia arjuna	Arjun	Combrectacea e	Hepatic, ulcer, fracture and antifeedant, antifertility and anti HIV
				activity, antibacterial, antimicrobial, antitumoral, antioxidant, antiallergic
50	Terminalia bellirica	Bahera	Combretaceae	Sore eye, dysentery, sore throat, cough and respiratory, liver problem
51	Terminalia chebula	Harra	Combretaceae	Stomachic, liver stimulant, mild laxative, digestive aid ,
	cheouia			laxative, digestive aid , gastrointestinal and appetite
52	Tinospora	Giloe	Menispermace	Snake bite , eye disorder, poisonous
	cordifolia		ae	insects, skin diseases, pain, asthma,
				bone fracture, fever, jaundice and chronic diarrhea.
53	Vitex negundo	Nirugundi	Lamiaceae	Analgesic, Muscle relaxant,
				Larvicidal, Emmenagogue,
				Carminative, Antimicrobial
54	Vitex	Charaigoda	Lamiaceae	Black Fevers, malarial, chest pain,
	penduncularis			jaundice menstrual bleeding ,diabetes
55	Xanthium	Latkan	Asteracae	Antirheumatic, appetizer, diaphoretic,
	strumarium			diuretic, emollient and sedative.
				laxative, fattening, anthelmintic,
				tonic, digestive, antipyretic, improves
				appetite, voice, complexion anodyne,

Photograph of some medicinal plants are given in Fig.



Sacred groove of *Shorea robusta*



Dioscorea bulbifera

Carissa crandas



Conclusion

Bohalghat of Chhattisgarh, India is well known for the occurrence of the diverse medicinal plants. Medicinal plants which are found in our area can be a good alternative for many human and animal diseases. They are low cost and have fewer to low side effects with positive response. There are a good number of herbal practitioners in this area who practice herbal medicine and willing to share their also rich knowledge of herbal medicine with the research scholars for the benefits of the good health of our society. Investigation about medicinal properties of the plants were recorded by the author with the help of traditional healers and Vaidraj .The information about medicinal plants through respondents by local people showed very diverse nature of medicinal flora, their uses in healing purpose with socio-economic / living standards upliftment.From this study, it could be concluded that Bohalghat possess a mixed vegetation. **Botanical** nomenclature are very important for human being which enables them to know the identity of plants and further helps them to select the maximum number of herbal plants according to their ambient uses .The long association with herbal medicinal plant life and their valuable properties helped the

Cassia tora

human being to identify the plants according to their perceptions and they developed a branch of medicinal plant study called folk taxonomy .At present time it's covers a small number of herbal plants whose features and properties are well known by their ambient and respective uses. The study also underlines the potential of the Ethnobotanical research and urgent need for documentation of traditional knowledge pertaining to medicinal plants utilisation by the respondents under studied and helpful in different ailments in short time.Such information should be spread among other society living in urban area and villages.The conservation aspect of above plant for domestication resources multiplication. sustainable utilisation and sustainable harvesting is required for future generations and also for the well ecological condition .Sacred grove, Sarna, Dham are several methods which are used by tribes to sustainable use and conservation of plants in our local area . Above traditional approach of conservation and management of natural resources through cultural and ritual ground in associated with a large number of herbal plants . Tribes people of Bohalghat believe, if any malicious activities in and around the above

conservated area is a sure cause of inviting natural disasters.

Nature and mankind are an inseparable part of the best life support system. The plants having cultural and religious closely association play an important role in local as well as regional biodiversity management and conservation. In our tribal area the sacred grove not only maintain the rich biodiversity from species to landscape but also provide habitats for many animals. Above traditional conservation represent a major contribution to the present day biodiversity.

Reference

- 1. Ethenobotanical Survey of Balrampur District with special reference to plants used by Koraku Tribes Ignace Kindo and S.John Britto[2015]
- 2. Study of Ethno-Medicinal plants among the tribals of Sarguja region(C.G.)
- 3. Anit Kumar Chatterjee[2014]
- 4. Ethnobotanical survey of sarguja district with special raference plants used by uraon tribe in treatment of respiratory diseases
- 5. Swati Srivastava,V.K.Kanungo [2013]
- 6. Assessment of knowledge of medicinal plants and their use in tribal region of Jashpur district of Chhattisgarh, India
- V.K.Painkra, M.K.Jhariya, A.Raj[201 5]
- 8. An Ethenobotanical study of Medicinal Plants of Shivpuri District With Special Reference to Plants Used For Natal Health Care , By Poorti Chaturvedi .
- 9. Herbaceous plants used by the tribes the treatment of human and animal diseases in the forest of Chaturgarh.
- 10. Ethenopharmaecobotanical study on the medicinal plants used by herballist in Sulaymaniyah Province , Kurdistan, Iraq. Hiwa M. Ahmad.
- 11. "Ethenobotanical Studies Of Murbad Tahasil , District Thane (

Maharashtra)" By Surise Vilas Maruti .

- 12. Floristic And Ethenobotany of Dahanu Forest Division In Maharashtra State, ,By V . Badari Nath.
- 13. Medicinal Plants Research in Pakistan Zabta K Shinwari. *Medicinal Plants of Rural
- 14. India : A Review of Use by Indian Folks .
- 15. District Balrampur , Government of C.G Anokha Balrampur / India
- 16. Retrieved 27 January 2021.
- 17. Balrampur District profile C
- Balrampur District C.G. State Government Archived from the original *2011 Census of India , Population by Mother Tongue
- 19. . Research Article
- 20. Ethenobotanical Study of Medicinal Plants Used to Treat Human Diseases in Berbere District , Bale Zone
- 21. of Oromia Regional State , South East Ethiopia. *Studies On Medicinal Plant Wealth of Mirzapur District in Uttar Pradesh with special Reference to
- 22. Conservation of Endangered And Vulnerable Species . By Neelam Singh.
- 23. Studies on Medicinal Plants in Traditional Healing Arts Of South India , S. .Pandarasivan (Reg. No. 2165)
- 24. Deogudi sacred grove. A tribal concept of conservation of plants in Bastar district C.G.

Laxmi Singh Dr. Deepa Biswas