

ISSN: 1533 - 9211 CULTIVATING WELL-BEING: A CROSS-CULTURAL ANALYSIS OF ETHNOMEDICINAL PLANTS AND HEALTH PRACTICES IN EAST AND WEST SINGHBHUM

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Abstract

This study provides a detailed exploration of the diverse medicinal plant biodiversity in the region of Jharkhand, characterized by its varied landscapes encompassing hills,forests and plateaus. Traditional medicine, deeply rooted in ancient healing practices, proves vital in addressing diverse health issues specific to the region. Fieldwork, including surveys and interviews in tribal localities, engaged with knowledgeable individuals like Manjhis, Janguru, Bonga doctors, local vaidyas, medicine men and women. Semi-structured surveys, interviews, and firsthand observations gathered information while incorporating local perspectives. The study identified over 100 medicinal plant species across 45 families, each utilized for various ailments. The research underscores the cultural richness and significance of conventional medicine, advocating for the preservation and integration of traditional practices into broader healthcare frameworks.

Keywords: Ethnomedicinal plants; Indigenous Communities; Health Practices; East Singhbhum; West Singhbhum

1. Introduction

Indigenous healing stands as a crucial healthcare resource, often serving as the sole source of assistance for many ethnic, rural, and backward populations. India boasts a profound heritage of plant-based healthcare wisdom. Numerous indigenous communities, particularly tribal groups, have harnessed the therapeutic potential of various plants and animal products, crafting what we refer to as ethnomedicines.

The relationships between plants and traditional people are profound and multifaceted, weaving through the very fabric of cultural, spiritual, and practical dimensions. Culturally, certain plants hold symbolic significance, embodying meanings associated with life, fertility, or purification in rituals and ceremonies. Medicinally, traditional communities rely on specific plants passed down through generations for remedies, reflecting a comprehensive strategy for health that takes into account mental, emotional, and spiritual well-being.

Jharkhand, a state endowed with abundant natural resources and a wealth of plant and animal species, is predominantly inhabited by tribal groups, making up 28% of its population. The local tribal community and other communities depend heavily on this diversity to ensure their access to food and nourishment. 32 distinct tribal groups live in the state; the largest tribal groupings are the Santhal, Munda, Ho, Oraons, Kharia, and Bhumij (Kulkarni P et al., 2014). These tribes primarily rely on plant resources for food, fiber, forage, herbal remedies, building materials for their homes, and household tools.

In the state of Jharkhand, East and West Singhbhum districts hold a prominent status in terms of medicinal plants, tribes, mining and various industrial endeavors. Ethnobotanically, this research area in the East and West Singhbhum districts of Jharkhand is one of the least studied regions. Due to its specific geographical position and the limited healthcare facilities available





in the district, the local population heavily relies on indigenous healthcare systems.

2. Materials and Methodology

2.1 Description of the study area and people

The word 'Jhar-khand' means the 'land' of 'forests' or the 'forested area. Jharkhand experiences a tropical monsoon climate characterized by humidity, ranging from humid to subhumid conditions. East Singhbhum and West Singhbhum are adjacent districts in the Singhbhum region of Jharkhand. Both districts are characterized by a mix of urban and rural communities and play a crucial role in Jharkhand's cultural and economic diversity. The location map of the study area is shown in **Figure 1**.

The undulating terrain of plateaus and hills, interspersed with dense forests, shapes the region's character. The Sal forests, dominated by the majestic Shorea robusta trees, thrive in this environment, fostering a unique ecosystem. The red and laterite soils, prevalent in these parts of Jharkhand, reflect the geological diversity that influences local agriculture. Alluvial soils along riverbanks and shallow, rocky soils in hilly areas further contribute to the mosaic of landscapes. The geography not only dictates the agricultural practices but also influences the cultivation of medicinal plants. The state's varied geography, therefore, serves as the canvas upon which the intricate tapestry of its biodiversity, agriculture, and traditional healthcare practices is woven (Mehta et al., 2008).

Jharkhand is renowned for its substantial tribal population and is undeniably one of the world's most biodiverse regions. This distinction can be attributed to the deep and harmonious connection that the tribal communities share with the natural environment, leading a coexisting and mutually dependent life with nature (Singh & Pandey, 2019).



Figure 1 Location map of East and West Singhbhum

The Santhal tribe, a major indigenous group in India, holds a significant presence in Jharkhand's East and West Singhbhum districts. Plants have historically and now influenced many facets of their culture, including language, art, literature, performing arts, and politics. Their significance was further enhanced by their use as symbols at holidays, marriages, and funerals, among other celebrations and rites.

The Munda tribe is one of the major tribal communities in India, and they have a significant presence in the Singhbhum districts of Jharkhand. The Mundas follow their traditional religion, which involves the worship of nature, ancestors, and spirits. Their religious practices are deeply





connected to agriculture and the natural environment.

Traditionally, the Oraon tribe has been primarily engaged in agriculture. They practice shifting cultivation, also known as "dahiya" or "bewar." The Oraon tribe contributes significantly to the cultural diversity of Jharkhand, and their traditional way of life reflects a close connection to nature, community, and ancestral beliefs.

The Ho people follow their traditional religion, which involves animistic and ancestor worship. They have a strong connection to nature and believe in spirits associated with natural elements. Various rituals and festivals are observed to seek blessings from spirits for a good harvest and well-being.

The Sabar community is one of the ancient tribes of Jharkhand , primarily resides in the Fast and West Singhbhum Districts . They are classified as a Particularly Vulnerable Tribal Group (PVTG) due to their socioeconomic backwardness and distinct cultural practices. The Sabar population is relatively small, with scattered settlements in remote forested regions and hilly terrains relying on natural resources for sustenance. Their belief system is deeply rooted in animism, worshiping nature and ancestral spirits.

2.2 Collection of ethnobotanical information

In the pursuit of understanding traditional knowledge concerning medicinal plants, a meticulous approach was adopted during the empirical fieldwork within the study area. A standardized questionnaire was formulated, drawing inspiration from guidelines provided by Martin (1995) and Shrestha et al. (1998).

The fieldwork encompassed two primary methodologies: the survey technique which included interviews, group discussions and interactions with stakeholders like local plant users, community members, faith healers, and village leaders and the inventory technique involved the systematic collection of plant specimens from the study area. Local names, parts used, and the intended purpose of usage were meticulously recorded as delineated by Martin (1995) and Cunningham (2001).

To establish contact with the settlements, mediators with established rapport within the tribal communities, such as forest officials, tribal chiefs, and local grocers, were instrumental for this study A participant-observer approach was embraced, wherein daily activities were closely monitored, and interpersonal connections were forged by actively engaging in social and religious ceremonies like marriages, rituals, and curing sessions.

The study's planning and execution were thoughtfully crafted, considering factors such as the number of participants, group compositions, and overall engagement strategies. A semistructured questionnaire was utilized during both informal and formal interviews with locals in each studied area. The questionnaire featured two distinct parts: the first focused on garnering general socioeconomic and demographic characteristics, while the second delved into the intricacies of ethnomedicine knowledge, encompassing the acquisition, utilization, and dosage of medicinal plants.

2.3 Field visits

The research spanned various villages, conducting visits at regular intervals from 2021 to 2023 within the designated study area. Focusing on the Santhal, Munda, Ho, and Oraon communities, the study extensively interviewed one hundred informants, ranging from 25 to 80 years, actively engaged in herbal medicine practices in the investigated villages.

The field visits were made to gather essential information, with the initial exploration taking place in October 2021. A general survey of the study area was conducted, facilitated by local key informants. This initial phase aimed to acquire primary information on plant diversity,





concurrently collecting plant specimens and ethnobotanical knowledge from the local population.

Subsequent field visits were conducted between March and October 2022 in East Singhbhum villages and from November 2022 to June 2023. These visits prioritized the collection of plants and information from local healers, including Manjhis, Janguru, Bonga doctors, local vaidyas, medicine men, women, and elderly individuals. The focus extended to documenting the manifold uses of plants, accompanied by the systematic collection of plant specimens.

2.4 Primary data collection

The primary data collection process employed interviews and focus group discussions, engaging various ethnic groups. Active participation from healers, including Manjhis, Janguru, Bonga doctors, local vaidyas, medicine men and women, knowledgeable villagers, heads of households, and elderly individuals, enriched the data collection. These informants, possessing profound knowledge and experience with medicinal plants, contributed insights into vernacular names, plant parts used, purposes of use, modes of preparation, and methods of administration for medicinal and other applications.

2.5 Preparation of specimen

The collection of plant specimens, crucial for documenting the ethnobotanical knowledge, followed a meticulous process. Plants in flowering and fruiting stages were targeted, ensuring representation through at least three duplicates for each species. A systematic numbering system was employed, with specimen and voucher numbers assigned to facilitate identification. Detailed information, encompassing habit, habitat, exact locality, and a simple plant description, including flower color, was recorded for each species. Comprehensive field documentation extended to photographic records, capturing leaves, stems, flowers, and fruits.

2.5.1 Pressing and Drying of Specimens

Pressing, a key step in specimen preparation, involved placing specimens between absorbents under substantial pressure. Herbaceous plants underwent a washing process to remove mud, with leaves and flowers carefully spread. Strategic positioning during pressing aimed to capture both leaf surfaces. Tight strap maintenance and daily blotter changes over 5 days to two weeks, weather-dependent, facilitated gradual moisture loss until the specimens achieved complete dryness.

2.5.2 Poisoning of Specimens

Specimens were promptly poisoned in the field or upon returning to the accommodation. Immediate poisoning aimed to prevent the formation of an abscission layer. A solution comprising 750ml of 70% alcohol, 150ml of acetic acid, 100ml of formaldehyde, and 2gm of mercuric chloride was prepared. Whole plant parts were dipped in this solution, ensuring thorough poisoning. Subsequent drying and pressing completed the preservation process. Duplicate specimens were utilized when detachment of flowers, fruits, seeds, or young leaves occurred during pressing.

2.5.3 Data analysis and identification of Specimens

Authentic identification of plants collected during guided field walks with herbal healers relied on standard floras, including Flora of British India (Hooker, 1998), Flora of Presidency of Bombay (Cooke, 1967) and Flora of Presidency of Madras (Gamble, 1984). The information regarding the medicinal values was compared with other available literature like "Indian medicinal plants" (Kritikar KK, 1981). Voucher specimens, created subsequently, found their place in the Department of Botany Herbarium, Mansarovar Global University, each assigned unique accession numbers for reference and future study.

2.6 Secondary Data

The secondary data collection process involved a thorough examination of published works,



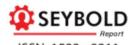


journals, and newspaper articles housed in the repositories of various institutions. Notable repositories included the libraries of governmental offices, NGOs, and INGOs.

3. Results and Discussion

The study involved interviewing fifty informants from the Santhal, Munda, Ho, and Oraon communities, aged between 25 and 80 years, who actively practiced herbal medicine in the villages under investigation. These informants possessed a comprehensive knowledge base, encompassing over 100 species of medicinal plants derived from across 45 families, employed in the treatment of several ailments and illnesses, as outlined in **Table 1**. The medicinal plants included 41 trees, 19 shrubs, 33 herbs, 1 grasses, 1 creeper and 5 climbers. The collated information is presented in alphabetical order, incorporating botanical names, family classifications, type of plant, local and common names, along with details on the utilized plant parts for treating various ailments and illness, as outlined in **Table 1**. Table 1 Plants used in the treatment of various diseases

SI. No	Botanical Names	Family	Local Name	Type of Plant	Parts Used	Uses
]	Abrus precatorius	Fabaceae	Karjani	Climbe r	Seed and root	Leaves are used for asthma, coughs, colds, skin issues, and shoulder inflammation. The grounded or powdered form of the root is employed to address conditions such as eye infections, jaundice, diabetes, headaches, diarrhea, sexual difficulties, stomach pain, leucorrhea, and menstrual issues. The seeds are also used as an antibacterial agent and to treat problems of the central nervous system.
2	Abutilon indicum Linn	Malvaceae	Atibala	Shrub	Leaves, root, bark,	Ailments like persistent cystitis, urinary disorders,



ISSN: 1533 - 9211 and jaundice, gleet, whole leprosy, plant gonorrhea, piles, ulcer cough, chronic dysentery, and fever are addressed. Used as Stem antispasmodic, Acacia 3 farnesiana Mimosidae Arimed Tree and aphrodisiac, astringent, willd bark demulcent Leaves, Used as anti – seed, Acacia diarrheal, anti-Mimosaceae Babul Tree bark arabica willd malarial, antiand inflammatory. gum Used as Leaves, hepatoprotective, bark Acacia Leguminosae Kheer Tree antipyretic and to catechu willd and treat digestive resin problems Used as anti-Stem, Acacia asthamatic, anti-Leguminosaea Babul Tree leaves nilotica willd diabetic and antiand pod plasmodial Used as antibiotic Achyranthus Amaranthacea Chirchiri Herb Root aspera L and spermicidal e The substance is utilized for relieving headaches, demonstrating anti-bacterial properties, acting as an antihelminthic, Acorus Wach Shrub Root addressing fever, Araceae calamos Linn managing asthma, alleviating bronchitis, soothing coughs, and aiding in digestive problems such as gas, bloating, and colic





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ç	Adhatoda vasica Nees	Acanthaceae	Vassa	Shrub	Leaf, root and Stem	The herb is employed to treat impotence and sexual difficulties, bleeding hemorrhoids, bronchitis, jaundice, diarrhea, dysentery, fever, and headaches. Additionally, it serves as a laxative and is applied in the treatment of skin diseases, wounds, and leprosy.
]	Adina cordifolia	Rubiaceae	Karam	Tree	Root	Used to treat jaundice and stomachache
1	Aegle marmelos corr	Rutaceae	Bel	Tree	Bark and fruit	Utilized for its potential as an anticancer agent, cardiovascular protection, and for its anti- bacterial and anti- fungal properties
]	<i>Aerva lanata</i> Juss.	Amaranthacea e	Lupu aa	Herb	Shoot and leaves	Is employed to address conditions such as cough, strangury, headache, and urolithiasis
]	Ailanthus excelsa Roxb	Simaroubaceae	Aralu	Tree	Root and leaves	Used as antispasmodic and for cardiac depressant
	Alangium salvifolium	Alangiaceae	Akola	Shrub	Bark	The shrub is employed in combating hypertension, diabetes, epilepsy, cancer, and inflammation
1 1	Albizzia	Mimosaceae	Siris	Tree	Whole	The plant is





ISSN: 1533 - 9211 lebbek employed for its plant properties that counteract asthma. inflammation, fertility, diarrhea, sepsis, dysentery, and tuberculosis. The leaves are utilized for their varied medicinal qualities, functioning as Albizzia agents against Mimosaceae Safed Siris Tree Leaves procera asthma, fertility, diarrhea, sepsis, tuberculosis, cancer, and ulcers. Utilized in the treatment of ophthalmia, Anemia, dyspepsia, constipation, Boerhaavia Rakt coughing, Nyctaginaceae Herb Leaves lumbago, diffusa Linn. punarnwa myalgia, cardiac conditions, strangury, leucorrhoea. jaundice, and general debility. Used for treating chickenpox, Bombax Malvaceae Semul Tree Seeds smallpox and ceiba catarrhal affections Leaves, Used as seed, Boswellia diaphoretic, Burseraceae Slai Tree gum astringent and serrata Roxb. and diuretic resin Seeds are Leaves employed for Bryonopsis Toktoyan Cucurbitaceae Herb and laciniosa Sag addressing seed menstrual





problems, treating snake bites, and managing fever. Used as antioxidant and Buchanania Anacardiaceae Piar Tree Seeds lanzan anti-inflammatory agent Used as antistress Butea Whole 1 frondosa and Fabaceae Palash Tree plant anticonvulsive Roxb. It is utilized to counter sexual disorders. Butea Fabaceae Lata Palash Shrub Root superba leucorrhoea. arthritis, and filariasis. Used to treat Climbe erectile Root 2 Buteasuperb Papilionaceae Lata palash dysfunction in r males Shoot **Butomopsis** Used to treat skin Lundi aa Alismataceae Herb and *latifolia* Linn. diseases leaves Used to treat Root bronchitis, Calotropis Ascelpiadacea Akwan Shrub and ssthma, leprosy, procera R e eczema and stem elephantiasis Addressing Capparis paralysis, mental sepiaria Capparidaceae Heens Shrub Leaves disorders, and Linn. tubercular glands. Used as anti-Carissa carandulas Karronda Tree Fruit inflammatory, Apocynaceae Linn. anti-pyretic Used as Root Cassia fistula antifungal, Leguminosae Amaltaash Tree and Linn. antiviral, luxative bark agent Employed in the remedy of Cassia hemoglobin occidentalis Kasoondi Seed problems, Leguminoceae Herb rheumatism, Linn. typhoid, asthma, and painful eyes. Cassia tora Caesalpiniacea Kanyur aa Herb Shoot Treatment of





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	Linn.	e			and	leprosy and
					leaves	various skin
						disorders
3	Celastrus paniculatus willd	Celastraceae	Jyotismati	Climbe r	Stem and seed	Addressing gout, rheumatism, asthma, leucoderma, leprosy, and paralysis. Additionally, it is employed for fever, edema, pain in joint, rheumatoid arthritis, , chills and infections due to bacteria.
	Celosia	Amaranthacea	IIndina		Shoot	Used to treat
3	argentea		Huding Sirgiti	Herb	and	sores, ulcers, and
	Linn.	e	Sirgin		leaves	skin eruptions.
3	<i>Celosia</i> <i>cristata</i> Linn.	Amaranthacea e	Marang Sirgiti	Herb	Shoot and leaves	Utilized in cases of hematuria, abdominal pains, leucorrhea, menstrual bleeding, hemoptysis, bleeding hemorrhoids, and osteoporosis.
3	Centella asiatica Linn. Urban	Umbelliferae	Brahmi	Climbe r	Aerial part	Used to treat asthma, skin disorders, ulcers, and body aches. Additionally, it is employed to enhance memory, act as a nervine tonic, and address conditions such as dropsy, elephantiasis, leucorrhoea, gastric issues, kidney problems, leprosy and urethritis.





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3	Cleome monophylla Linn.	Cleomaceae	Hurhuria aa	Herb	Shoot and leaves	Possesses anti- diarrheal, anti- inflammatory, anticancer, antifungal, antimicrobial, anti-arthritic, hepato protective, anti nociceptive, and wound healing properties.
3	Cleome viscose Linn.	Cleomaceae	Hurhur	Herb	Shoot and leaves	Rheumatic arthritis, hypertension, malaria, neurasthenia, and wound healing
3	Clerodendro n infortunatum	Verbenaceae	Bhant	Shrub	Leaves	Antimicrobial and anthelmintic
	<i>Clerodendru m serratum</i> Linn.	Verbenaceae	Vaarangi	Herb	Roots	Rheumatism, asthma and other inflammatory diseases
2	Clitoria ternatea	Fabaceae	Aprajita	Herb	Flower and fruit	Used to treat tuberculosis, asthma, ulcers, skin conditions, and eye issues.
2	Coccinia indica Naud	Cucurbitaceae	Kunduru	Herb	Leaves	Utilized in the treatment of skin conditions, leprosy, psoriasis, filarial swelling, diabetes, and bronchitis
2	Cocculus hirsutus	Menispermace ae	Chilhinth	Creepe r	Leaves and root	Syrup derived from the roots is employed for the remedy of sunburn and snake bites, while the leaves are used to address sexual problems, skin conditions,





155	N: 1533 - 9211					
						fever, and eye problems.
2	<i>Cocculus hirsutus (</i> Linn.) <i>Diel</i>	Menispermace ae	Chilahinta	Herb	Leaves and roots	Utilized for venereal diseases, chronic rheumatism, fever, and syphilitic cachexia, the herb exhibits hypoglycemic, antimicrobial, anti-inflammatory and cardiotonic effects.
2	<i>Colocasia</i> <i>antiquorum</i> Linn.	Araceae	Pechki aa	Herb	Shoot and leaves	To treat diarrhea
2	Dalbergia sissoo Roxb.	Leguminosae	Seesam	Tree	Stem	Anthelmintic, antipyretic, aphrodisiac
2	Desmodium gangatiium	Leguminosae	Saalparni	Shrub	Rhizom e	Analgesic, diuretic, antiinflammatory, and haemorrhagic
2	<i>Dioscorea bulbifera</i> Linn.	Dioseoriaceal	Gainthi	Herb	Tuber and rhizom e	Conjunctivitis, diarrhea, and dysentery
2	Elephantopus scaber	Asteraceae	samdulan	Herb	Roots	Effective in reducing fever, addressing cardiac problems, and managing hepatitis.
2	Embelia ribes burm. F	Myrsinaceae	Vidang	Shrub	Root and fruits	Antibacterial activity, anti- inflammatory, antioxidant
4	Embilica officinalis	Euphorbiaceae	Amla	Tree	Fruits	Antioxidant, immunomodulato ry, antipyretic, analgesic
4	Emblica officinalis gaerin	Euphorbiaceae	Aawala	Tree	Fruit	Antimicrobial, hepato- and renal- protective, antivenom





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ISSN	: 1533 - 9211					
	Feronia elephantum con	Rutaceae	Kaith	Tree	Fruit	CNS depressant and CVS depressant
4	Ficus benganlensis Linn.	Moraceae	Bargad	Tree	Whole plant	Antioxidant and antimutagen
4	Ficus glomerata Roxb.	Moraceae	Gular	Tree	Whole plant	Anti-diabetic, hepatoprotective
	Ficus hispida Linn. F.	Urticaceae	Kakodumb ar	Shrub	Whole plant	Antimicrobial activity against several pathogenic bacteria
4	Gamochaeta pensylvanica wild.	Compositae	Putam aa	Herb	Shoot and leaves	Diabetes, hypertension, gastric ulcers, diarrhea, and intestinal infections.
1	<i>Gloriosa superba</i> Linn.	Diliaceae	Karihari	Herb	Tuber	Utilized for , leprosy, ulcers, gonorrhea, hemorrhoids, inflammations, stomach pains, itching and respiratory disorders.
5	<i>Gmelina arborea</i> Linn.	Leguminosae	Gamhaar	Tree	Leaves and stem	Anti-diabetic, antipyretic and analgesic activity
5 1	<i>Gnaphalium indicum</i> Linn.	Compositae	Putam aa	Herb	Shoot and leaves	Treatment of jaundice, ulcer, fever and antiseptic
6	<i>Helicteres isora</i> Linn.	Sterculiaceae	Mrorfali	Shrub	Root, stem, Bark and flower	Antidiarhoeal, anticancer
6	Hemidesmus indicus R	Asclepiadacae	Anantmul	Herb	Root and leaves	Treatments for leucoderma, gonorrhea, piles, jaundice, and dysentery are provided.





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6	<i>Hibiscus rosa</i> <i>sinensis</i> Linn.	Malvaceae	Japa	Shrub	Root, leaves and flower	Diuretics, contraceptives, antidiarrheals, aphrodisiacs, cough suppressants
6	Holarrhena antidysenteri ca	Apocynaceae	Kurchi	Tree	Whole plant	Treatment of dysentery, indigestion, and diarrhea
(Holoptelea integrifolia planch	Ulmaceae	Chirbilav	Tree	Whole Plant	Treatment of inflammation, gastritis, dyspepsia
6	Jasminum multiflorum	Oleaceae	Chameli	Tree	Flowers	Antimicrobial, insecticidal, antioxidant, antifertility and dermatological effects
(Lagerstroemi a speciosa	Lythraceae	Jarul	Tree	Whole plant	Antimicrobial, antioxidant, anticancer, antidiabetic, hypolipidemic
6	Lannea coromandelic a	Anacardiaceae	Doka	Tree	Bark	Antioxidant and analgesic
(Lawsonia inermis Linn.	Lythraceae	Madyantik a	Shrub	Leaves, bark and seed	Addressing bleeding disorders, skin diseases, acting as a diuretic, and possessing antibacterial, antifungal, and anti-amoebiasis properties.
(Leptadenia retiulate W&.A	Asclepiadacea e	Jiwanti	Shrub	Leaves and flowers	Revitalizing, Rejuvenating, and Lactogenic Properties
7	Leucas aspera, Spreng.	Lamiaceae	Tupi aa	Herb	Shoot and leaves	Used for bone fractures
7	Leucas cephalotes	Lamiaceae	Tupi aa	Herb	Shoot and	To treat cough, asthma and





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Spreng.				leaves	respiratory difficulties
Madhuca 7 indica J.F. Gmel	Sapotaceae	Madhuk	Tree	Leaves	Anti-pyretic, anti fertility, analgesic, antioxidant
Mallotus 7 phillippenens is Muell	Euphorbiaceae	Kamila	Tree	Bark	Anti- inflammatory and immune regulatory
<i>Mangifera</i> <i>indica</i> Linn.	Anacardiaceae	Aam	Tree	Fruit	Anti- hemorrhagic, anti- tetanus, analgesic and antipyretic
, Marsilea minuta Linn.	Marsiliaceae	Chatom aa	Herb	Shoot and leaves	To treat spastic condition of leg and muscle, epilepsy, and migraine
Medicago lupulina	Fabaceae	Bida aas	Herb	Shoot and leaves	Antidote to poisoning
, Melia azedarch	Meliaceae	Bakain	Tree	Seeds	Antioxidative, analgesic, anti- inflammatory
Melilotus 7 indicum Linn.	Rutaceae	Banmethi	Herb	Leaves and seed	Aphrodisiac, antihemorroida
, Mentha viridis Linn	Labiatae	Pudina	Herb	Whole plant	Hiccup, vomiting, flatulence and cholera are addressed, along with fever and bronchitis. The plant is also used for toothache, pain of neuralgia, and herpes.
Merremia macrocalyx { (Ruiz & Pavon) O'Donell	Convolvulacea e	Oye Rams/Oye manda	Climbe r	Leaves	Antidote to poisoning
8 Nerium indicum Mill	Apocynnaceae	Kaner Laal	Shrub	Flower	Used for antibacterial, cardiotonic and analgesic





ISSN: 1533 - 9211 properties Antimicrobial, antidiabetic, hepatoprotective, anti-Whole inflammatory, Oroxylm Bignoniaceae Tree Sonapatta indicum plant anticarcinogenic, and immunomodulato ry properties are attributed to it. It is used to address fever, burning feeling, Phaseolus Papilionaceae Banmung Herb Leaves thirst, piles, trilobus diarrhea, coughing up gout, and biliousness. Treatment for Phoenix svlvestris Palmae Khajuri Tree Fruit sore throat, colds, 8 bronchitis Roxb. Treatment for Polygonum Shoot plebeium Herb pneumonia and Polygonaceae Muin aa and R.Br. leaves bowl issues. Antioxidant, Pongamia Leguminosae Tree Seed antimicrobial, Karanj glabrra anti-inflammatory Employed in scurvy as well as Shoot Portulaca conditions quadrifida Portulacaceae Dali aa Herb and affecting the Linn. leaves kidney, bladder, spleen, and liver. Addresses Acts as

\$	Rauwolfia serpentina benth	Apocynaceae	Sarpgandha	Herb	Whole Plant	Addresses Acts as a sedative for insomnia and insanity and treats hypertension, sleeplessness, mental health problems, gastrointestinal diseases, epilepsy, traumas, anxiety, and schizophrenia.
8	Rhinacanthus	Acanthaceae	Uthiparni	Shrub	Leaves	Used to address





155	N: 1533 - 9211				1	π
	nasuta kurz					ringworm, itching, and various skin diseases.
g	<i>Saecharum</i> <i>spontaneum</i> Linn.	Graminae	Kaans	Grass	Whole Plant	Employed in the treatment of vesical calculi, burning feelings, stranguria, haemorrhagic diathesis, biliousness, menorrhagia, dyspepsia, hemorrhoids, dysentery, and phthisis.
Ģ	Salmalia malabarica schobt & endi	Bombacaceae	Semal	Tree	Flower and fruit	Treatment of gastric ulcers
g	<i>Semecarpus anacardium</i> Linn.	Anacardiacea	Velwa	Tree	Seed and leaves	Anti- inflammatory, antiarthritic, antioxidant activity
g	Shorea robusta gaertn	Dipterocarpeae	Saal	Tree	Leaves and seed	Treatment of ulcer, inflammation and wounds, gastro protective
ç	<i>Sida cardifolia</i> Linn.	Malvaceae	Bala	Shrub	Stem	Anti- inflammatory for preventing cell proliferation
g	<i>Sida varonicifolia</i> Linn.	Malvaceae	Rajbala	Shrub	Stem	Addressing stomatitis, asthma, blennorrhea, asthmatic bronchitis, and nasal congestion.
g	Teramnus labialis spreng	Cucurbitaceae	Vanurad	Herb	Seed	Utilized in the treatment of emphysema, gastric ulcers, diabetes mellitus,





100	N: 1555 - 9211					cirrhosis, aging,
						and cancer.
						Additionally, it is
						employed for
						addressing
						rheumatism,
						tuberculosis,
						nerve disorders,
						paralysis, and
						catarrhs.
	T					Antioxidant, anti-
9	Terminalia	Combretaceae	Arjan	Tree	Bark	inflammatory,
	arjuna Roxb					antithrombotic
	Terminalia					A
9	bellirica	Combretaceae	Bahera	Tree	Fruit	Antibacterial
	Roxb					activities
	Torrectoralia					Antifungal
g	Terminalia	Combretaceae	Harre	Tree	Seed	activity, antiviral
	chebula retz					activity
	Terminalia					Anti-
		C 1	A	T	D - 1-	hyperglycaemic,
	tomentosa.	Combretaceae	Aasan	Tree	Bark	Anti-diarrheal,
	Bedd					Antileucorrhea

Conclusion

Jharkhand is known for its varied geography, featuring lush greenery, dense forests, and picturesque plateaus. The region possesses a diverse array of ethnomedicinal plants, and the historical wisdom surrounding medicinal plants has played a vital role in Jharkhand's healthcare practices. Traditional medicine, rooted in ancient healing practices and indigenous knowledge, has had a crucial role in healthcare systems across cultures for centuries. The study identified a variety of medicinal plants obtained through wild harvesting and cultivation, including trees, shrubs, herbs, grasses, creepers, and climbers. Over 100 plant species were identified derived from across 45 families to treat various diseases. The research also focused on providing information about the preparation, administration, and plant components involved in traditional healing practices.

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Sabar community is one of the ancient tribes of Jharkhand, primarily resides in the Fast and West Singhbhum Districts. They are classified as a Particularly Vulnerable Tribal Group (PVTG) due to their socioeconomic backwardness and distinct cultural practices. The Sabar population is relatively small, with scattered settlements in remote forested regions and hilly terrains relying on natural resources for sustenance. Their belief system is deeply rooted in animism, worshiping nature and ancestral spirits.

