Study of Plant Biodiversity of West Singhbhum District of Jharkhand, India and Its Medicinal Uses

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ABSTRACT

Jharkhand is rich in biodiversity of medicinal plants. The forest area is about 40% of the total area of Jharkhand. 32 tribal communities found in Jharkhand. They are used medicinal plants by traditional knowledge. The Baidhyas or Kaviraj are those people who used medicine medicinal plants as by using traditional knowledge/practices. About 80% of local people as well as tribal people rely ethno medicinal plants for their primary health care. The objective of this present study was to conduct a value addition survey amongst tribal of West Singhbhum and around the district of Jharkhand. Due to extinction of many medicinal plants, the conservation strategy is also very important aspects as in present scenario. If all the people know about our natural resources and its important in our life by training or other sources than save it for value addition. If one species saves per people by conserve it for value addition than disease free natural obtained. Or it can say that the conservation strategy of medicinal plants played great role to save the life and health for coming generation. Information of 85 plant species was obtained which were used by Baidhyas or Kaviraj to treat various ailments given the table 1. These medicinal plants belong to 85 genera and 67 families. All plants were grown or cultivated in home fields as ornamental plants, shade giving plants, timber yielding plants, home construction plants, medicinal plants, vegetable, fruits etc. The various plant parts used included whole plants, leaves, stems, roots, tuber, barks, flowers, fruits and seeds. Traditional and ethnic knowledge generated from such leads has played most significant role in the discovery of novel product as well as newer ideas about conservation of natural resources. This paper deals with the biodiversity of West Singhbhum district and medicinal uses of these most important plants.

INTRODUCTION

Traditional knowledge of the tribal and local communities is passed through generation after generation as orally (Jain, 1991). During the last 50-55 years various research institutes, Universities, Colleges and institutions collected large amount of ethno-botanical information. This outcome of project launched by ministry of Environment and Forest, Government of India, New Delhi has recorded 9500 plant species for various ethno - botanical uses such as medicinal plants (7500 species), edibles (3900 species), and for the miscellaneous purpose (2325 species) (Anonymous, 1994). *How to cite this paper:* Dara Singh Gupta | Manjula Gupta "Study of Plant Biodiversity of West Singhbhum District of Jharkhand, India and Its Medicinal

Uses" Published in International Journal of Trend in Scientific Research and Development (ijtsrd), ISSN: 2456-6470, Volume-8 | Issue-2, April 2024, pp.470-477,



URL:

www.ijtsrd.com/papers/ijtsrd64687.pdf

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KEYWORDS: Medicinal plants, Traditional Knowledge, West Singhbhum district, Biodiversity, Baidhyas, various plant parts

Man has inherited rich traditional knowledge of surrounding plants used as food, fodder, fibre, woods, fuel, medicine, beverage, tannins, dye, gums, resin, cosmetics, craft items, and for religious ceremonies. Food plants that are cultivated or grow in naturally are playing an important role in sustaining human life for survival. In order to meet the problem of providing medicine for mankind with the help of traditional knowledge, identification of plant species is extremely important. Hence, the present work is designed with an objective of providing identification of important medicinal plants and formation of ethno medicinal uses of these very common medicinal plants in the West Singhbhum District of Jharkhand.

West Singhbhum District is also rich in the forest wealth and Ethnic Communities. The inhabitants of West Singhbhum District have Traditional Healthcare System based on local floras. Plant's part like root, stems, leaves, flowers, barks, seeds, fruits are used for the remedy of many diseases. They depend on Jari-Butti for their primary healthcare system. So, they protect the plants having the medicinal value and also, they provide their medicinal knowledge to their children, grandchildren for their healthcare. Their traditional beliefs and uses of plants for traditional and religious customs and practices enhances the conservation of plant diversity.

MATERIALS AND METHODS

Ethno-botanical information of the plants used for medicinal purpose was gathered by conducting field trips to the villages in different seasons. And during our survey, elderly people, Pahan, Vaidya in villages were interviewed. The information about medicinal plants was repeatedly conformed through the discussion with various informants at different times and in different localities. Plant specimens were photographed, collected and identified with the help of standard floras.

The plants are enumerated in the alphabetical sequence along with botanical name, family, local name followed by their medicinal uses.

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RESULTS AND DISCUSSION

This survey revealed that the traditional communities have rich traditional knowledge pertaining to the use of plant resources available around them. The study revealed that the ethno-medico-botanical knowledge is confined to older generations mostly. So, it is feared that with the passing of time some valuable information relating to ethno-botany of the area may be lost. So, it is the time for documentation of the indigenous knowledge.

Tribal and Indigenous population of Ranchi district uses different parts of various plants in their ancient method of treatment to cure different diseases and ailments. It not only promotes good health but also help in maintain a balanced ecological environment.

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г laints,	that were	useu m	uaunuonai	neann	Care	described	III table.	, Delow -

Sl. No.	Botanical Name	Family of the plant	Local name	Parts used	Medicinal uses/administration of the plant
1.	Acacia arabica L.	Mimosaceae	Babul	Flowers	Grind the flowers of babul with vinegar and apply on the eczema. It completely cures the eczema.
2.	Adhatoda vasica Nees.	Acanthaceae	Vasak/ Arusa	Whole plants, Leaves, Flowers, Root, Bark	Given in Asthma, Cough, Chronic Bronchitis, Rheumatism, Respiratory disorders, Antipyretic, Gonorrhoea, Jaundice etc.
3.	<i>Aloe vera</i> (l.) Burm f	Liliaceae	Ghee kunwar	Pulp	Apply the pulp of Ghee kunwar on the affected area of the syphilis. It cures syphilis. In warts, apply the paste of Ghritkuwari. It melts warts.
4.	Aegle marmelos (L.) Corr.	Rutaceae	Bel	Roots, Barks, Leaves, Fruits, Flowers	Ripe fruit is aromatic, astringent cooling and laxative. The unripe or half ripe fruit is given in dysentery & diarrhoea, Jaundice, Piles etc.
5.	Annona squamosa L.	Annonaceae	Sharifa	Roots, Leaves, Fruits, Seeds	Anaemic Patient, Cancer, Tumour, Wounds healing, Ulcers, Cold, Rheumatism, Fever, Burning sensation etc.
6.	<i>Amaranthus</i> <i>spinosus</i> Linn.	Amaranthaceae	Kateli Chaulai Sag	Roots & Leaves	Leaves are used for Haemoglobin. Blood impurities, Insanity, Haemorrhage disease,

Table-I: List of plant species and their medicinal uses: --

					Fever, Cough, Diarrhoea,
					Leukoderma, Gonorrhoea,
					Metrorrhagia etc.
					Piles, Leucorrhoea, Seminal
7	Asparagus	Liliaceae	Satavar	Elechy roote	debility, Goneral debility,
	racemosus			Cladadas	Headache, Hysteria, Reduces
7.	Willd.			Cladodes	blood pressure, Useful in acidity
					and ulcer patient, Anticancer etc.
					Dried leaves are used for blood
				Whole Plant,	purification. The fresh juices of
	A 10 1.			Root bark,	leaves are used in Skin diseases.
	Azadirachta	A 1'		stem bark,	Anti-ulcer, Anti-bacterial,
	indica A.	Meliaceae	Neem/Nimb	Leaves,	Eczema, Ringworm, Antiseptic,
8.	Juss.			Flowers,	Scabies, Ulcer, Leukoderma,
				Fruits	Inflammation, Rheumatism,
					Leprosy etc.
					Obesity, Diabetes, Skin diseases,
	Bauhinia			Stembark &	Ulcer, intestinal worms, Asthma,
9	variegata	Caesalpiniaceae	Kachnar	Flowers	T B Piles Dysentery Diarrhoea
7.	Linn.			11000015	Goitre etc.
			and and a second	MILL.	Asthma, Anaemia, Jaundice
	Boerhaavia	4	Scie	Fresh whole	Scanty urine. Internal
	diffusa	Nyctaginaceae	Punarnava	plant, Root,	Inflammation Epilepsy Heart
10	Linn			Leaves &	diseases Eye-problems Cough
10.	Linni.	H à		Flowers	Bronchitis etc
	Cajanus	d a		Leaves	The juice of leaves is used with
11.	<i>caian</i> Linn	Fabaceae	Arhar	Roots	sugar candy for jaundice
			of Trend in	Scientific	Rheumatism Fever Paralysis
	Colastans	Y/UT		Whole plant	Teneralitationi, i e ver, i araiyono,
	Celasirus		Researc	whole plant,	Leprosy Blood pressure
	paniculatus	Celastraceae	Malkangni lor	Bark, Leaves,	Leprosy, Blood pressure, Hypotensive Emetic Antiviral
12.	<i>paniculatus</i> Willd.	Celastraceae	Malkangni Ioj	Bark, Leaves, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc.
12.	<i>Cetastrus</i> <i>paniculatus</i> Willd.	Celastraceae	Malkangni Ioj	Whole plant, Bark, Leaves, Seeds Whole plant	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc.
12.	<i>Cetastrus</i> <i>paniculatus</i> Willd. <i>Centella</i> <i>asiatica</i>	Celastraceae	Researd Malkangni lo ISSN 245 Brahmi	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B. Anaemia Cough Fever
12.	<i>Centella</i> <i>asiatica</i>	Celastraceae Apiaceae	Malkangni Brahmi Meghabati	Whole plant, Seeds Whole plant, Leaves, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma Wound healer etc
12.	<i>Centella</i> <i>asiatica</i> Linn.	Celastraceae Apiaceae	Malkangni Brahmi Meghabati	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc.
12.	<i>Centella</i> <i>asiatica</i> Linn.	Celastraceae Apiaceae	Malkangni Brahmi Meghabati	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprocy Piles Ping worm
12.	Centella asiatica Linn. Cassia tora	Celastraceae Apiaceae	Malkangni Brahmi Meghabati Chakunda	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma Blood purifier Layative
12. 13.	Centella asiatica Linn. Cassia tora Linn.	Celastraceae Apiaceae Caesalpiniaceae	Malkangni Brahmi Meghabati Chakunda Chakwar	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyratic Cough
12. 13. 14.	Centella asiatica Linn. Cassia tora Linn.	Celastraceae Apiaceae Caesalpiniaceae	Malkangni Brahmi Meghabati Chakunda Chakwar	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient
12. 13. 14.	Centella asiatica Linn. Cassia tora Linn.	Celastraceae Apiaceae Caesalpiniaceae	Malkangni Brahmi Meghabati Chakunda Chakwar	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient.
12. 13. 14.	Centella asiatica Linn. Cassia tora Linn.	Celastraceae Apiaceae Caesalpiniaceae	Malkangni Brahmi Meghabati Chakunda Chakwar	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement
12. 13. 14.	Centella asiatica Linn. Cassia tora Linn.	Celastraceae Apiaceae Caesalpiniaceae	Malkangni Brahmi Meghabati Chakunda Chakwar	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Diarchaga Cordian
12. 13. 14.	Centella asiatica Linn. Cassia tora Linn. Carica papaya Lian	Celastraceae Apiaceae Caesalpiniaceae Caricaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac
12. 13. 14. 15.	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets
12. 13. 14. 15.	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc.
12. 13. 14. 15.	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases,
12. 13. 14. 15.	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes,
12. 13. 14. 15.	Certella asiatica Linn. Cassia tora Linn. Carica papaya Linn.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae Zingiberaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta Haldi	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds Rhizome	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes, Scabies, Leukoderma, Polyuria,
12. 13. 14. 15.	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn. Curcuma langa L.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae Zingiberaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta Haldi	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Leaves, Fruits, Seeds Rhizome	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes, Scabies, Leukoderma, Polyuria, Ulcer, Anaemia, Jaundice, Blood
 12. 13. 14. 15. 16. 	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn. Curcuma langa L.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae Zingiberaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta Haldi	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds Rhizome	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes, Scabies, Leukoderma, Polyuria, Ulcer, Anaemia, Jaundice, Blood purifier, Liver tonic, ophthalmia
 12. 13. 14. 15. 16. 	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn. Curcuma langa L.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae Zingiberaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta Haldi	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds Rhizome	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes, Scabies, Leukoderma, Polyuria, Ulcer, Anaemia, Jaundice, Blood purifier, Liver tonic, ophthalmia etc.
12. 13. 14. 15. 16.	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn. Curcuma langa L.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae Zingiberaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta Haldi	Whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds Rhizome	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes, Scabies, Leukoderma, Polyuria, Ulcer, Anaemia, Jaundice, Blood purifier, Liver tonic, ophthalmia etc.
12. 13. 14. 15. 16.	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn. Curcuma langa L. Datura	Celastraceae Apiaceae Caesalpiniaceae Caricaceae Zingiberaceae Solanaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta Haldi Dhatura	whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds Rhizome Roots, Leaves, Coots, Leaves, Coots, Leaves,	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes, Scabies, Leukoderma, Polyuria, Ulcer, Anaemia, Jaundice, Blood purifier, Liver tonic, ophthalmia etc.
 12. 13. 14. 15. 16. 17 	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn. Curcuma langa L. Datura metal Linn.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae Zingiberaceae Solanaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta Haldi Dhatura	 whole plant, Bark, Leaves, Seeds Whole plant, Leaves, Seeds Seeds Leaves, Fruits, Seeds Rhizome Roots, Leaves, Seeds, Fruits, 	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes, Scabies, Leukoderma, Polyuria, Ulcer, Anaemia, Jaundice, Blood purifier, Liver tonic, ophthalmia etc. Ulcer, Diarrhoea, Skin diseases, Scabies, Fever, Insanity, Bronchial Asthma, hyperacidity
 12. 13. 14. 15. 16. 17. 	Centella asiatica Linn. Cassia tora Linn. Carica papaya Linn. Curcuma langa L. Datura metal Linn.	Celastraceae Apiaceae Caesalpiniaceae Caricaceae Zingiberaceae Solanaceae	Malkangni Brahmi Meghabati Chakunda Chakwar Papitta Haldi Dhatura	Whole plant, Bark, Leaves, SeedsWhole plant, Leaves, SeedsSeedsLeaves, Fruits, SeedsRhizomeRoots, Leaves, Seeds, Fruits, Flowers	Leprosy, Blood pressure, Hypotensive, Emetic, Antiviral, Leukoderma, Amenorrhoea etc. Skin diseases, Memory, Leprosy, T.B., Anaemia, Cough, Fever, Asthma, Wound healer etc. Skin diseases, Leukoderma, Leprosy, Piles, Ring worm, Asthma, Blood purifier, Laxative, Anthelmintic, Antipyretic Cough, Eczema etc. and diabetic patient. Haemorrhagic diseases, Piles, Anthelmintic, Liver enlargement, Ringworm, Diarrhoea, Cardiac disease, Increase blood platelets etc. Cold, Cough, Skin diseases, Abdominal worms, Diabetes, Scabies, Leukoderma, Polyuria, Ulcer, Anaemia, Jaundice, Blood purifier, Liver tonic, ophthalmia etc. Ulcer, Diarrhoea, Skin diseases, Scabies, Fever, Insanity, Bronchial Asthma, hyperacidity etc.

18.	<i>officinalis</i> Geartn.			Seeds	It is given in dysentery also, Haemorrhage, Diabetes, Polyuria,
					Headache, Antifungal, Eczema, Dilas, Manamhagia, Saumu, eta
					Flatulance Insonity Skin
	Funhorbia			Roots Stem	diseases Anaemia Inflammation
19	neriifolia I	Euphorbiaceae	Sehund	Leaves	due to ulcer Fever Snake bite
1).	петијона 1.			Leaves	etc
					Tender leaves are boiled and
	Ficus			Leaves &	dried and then given in dysentery
20	geniculata	Moraceae	Putkal	nods	Leucorrhoea Improve iron in
20.	L.			pous	blood Antioxidant etc
					Diabetes Dysentery Diarrhoea
				Whole plant.	Bleeding piles, Leukoderma.
	Ficus			Roots	Acidity Scabies Small pox
	glomerata	Moraceae	Gular	Leaves, Bark.	Wound healing, Fracture, Genital
21.	Roxb.			Fruits. Latex	disorder. Metrorrhagia.
				,,	Abortifacient etc.
	Hibiscus			Deed Of	Cough, Fever, Menorrhagia,
	rosa-	Malus	I Jaha-1 DI	Koot, Stem,	Antibacterial, Antiviral,
22	sinensis	Malvaceae	Urnul Phul	Leaves,	Antispasmodic, Polyuria, Piles,
22.	Linn.	4	Scie	Flower, Buds	Leucorrhoea, Gonorrhoea etc.
		8	ena	Leaves, Bark,	Gastric stimulant Sourvy
	Mangifera	a .		Flowers,	Haemorrhagia Dysentery
	<i>indica</i> Linn	Anacardiaceae	Aam 📙 为	Fruits, Seeds,	Anthel- mintic Diarrhoea Thirst
23	marca Linn.	a B		Gum, All	Inflammation etc
23.		<u> </u>	of Trend in	Parts	
		g g :	Researc	hand .	Leaves are eaten in Blood
	Moringa	8-1		Root, Root's	Pressure, Paralytic affections,
	oleifera	Moringaceae	Sahjan,	bark,	fever, epilepsy, rheumatism,
24	Lam.		Munga _{N: 245}	Flowers,	cardiac tonic, nervous debility,
24.		N. C		Fruits, Seeds	hysteria, flatulence, anti-ulcer,
					Haemorrhagic Diarrhoea
	Mimosa	A	Chui-Mui	Roots,	Gynaecological diseases Sinus
	pudica	Mimosaceae	(Laiwanti)	Leaves,	Piles Fistula Urinary disorder
25.	Linn.		(Luj wanti)	Stem, Seeds	Cough Leukoderma etc
	Madhuka				
26.	longifolia	Sapotaceae	Mahua	Seeds	Oil is used in removing pain of
	Linn.				stomach, Skin diseases etc.
					Bronchitis, Fever, Asthma,
	Onimation				Urinogenital disorder, Ear ache,
	Sancture	Lomicopo	Tulei Desil	Roots, Seeds,	Dysuria, Leprosy, Diabetes,
27	Linn	Lannaceae	1 u181, DaS11	Leaves	Hepatoprotective, Antispasmodic,
27.					anti-bacterial, antituberculosis,
					cardiopathic, leukoderma etc.
					Seeds oil is used in the treatment
	Pangamia				of skin diseases, Blood purifier,
	pinnata	Fabaceae	Karani	Seeds, Bark,	Piles, Leukoderma, Flatulence,
28	Pierre	I ubuccac	manung	Leaves, Oil	Diarrhoea, Wound healing, anti-
20.	(Linn.)				bacterial, scabies, rheumatism,
				• -	arthritis, diabetes etc.
	Punica			Leaves, Root,	Used in Piles, Diarrhoea,
•	granatum	Punicaceae	Anar, Dalim	Flowers,	Dysentery, Bleeding gums,
1 29.	Linn.			Fruits, Seeds	ulcers, prolapse anus,

30.	<i>Ricinus</i> <i>Communis</i> Linn.	Euphorbiaceae	Arandi	Roots, Bark, Leaves, Flowers, Fruits, Seeds, Oil	anthelmintic, spleen disorder, anaemia, gastric-disorder, conjunctivitis etc. Tender shoots, branches are used in toothache, Dysuria, Cough, Worm infection, Epilepsy, Piles, Asthma, Bronchitis, Skin diseases, Jaundice, Eye disease, Sciatica, Rheumatism, Hydrocele etc.
31.	<i>Bombax</i> <i>ceiba</i> Linn.	Bombacaceae	Semal	Bark, Roots	After boiling of bark given to Anaemic Patient, joint pain etc.
32.	Syzygium cumini Skeels	Myrtaceae	Jamun	Leaves, Bark, Fruits, Seeds	Fruit is used by anaemic Patient, Diabetes, Diarrhoea, Dysentery, Menorrhagia, Anti-bacterial, Ulcer etc.
33.	Shorea robusta Gaertn.	Dipterocarpaceae	Sal, Sakhua	Bark, wood resin, Seeds	The dried seeds are after boiling converted into powder and given to dysentery patient, Diabetes, Cough, Asthma, Bleeding piles, Bleeding diarrhoea, Fracture, Ear disease, Anaemia etc.
34.	Swertia chirayata Roxb.	Gentianaceae	Chirayta Internationa of Trend in	Dried whole plant, Roots, Stem, Flowers	Malarial fever, Leprosy, blood purifier, Leukoderma, Scabies, Menorrhagia, Menstrual irregularity, Urinary disease, Heart disease, Indigestion, Asthma, Cough, Ulcer etc.
35.	Tamarindus indica Linn.	Caesalpiniaceae	Tmli ISSN: 245	Leaves, stembark, Fruits, Seeds, Flowers	The fruits are edible and are used as carminative and laxative. Power of tender dried leaves is used in dysentery, Bleeding piles, Dysuria, antipyretic etc.
36.	Terminalia bellirica Roxb.	Combretaceae	Bahera	Fruits	The ripe dried fruit is astringent, bitter tonic and laxative. It is given in piles, diarrhoea, headache etc.
37.	Terminalia chebula Retz.	Combretaceae	Harre	Fruits	The fruits are of medicinal value. The fruit pulp is given in Diarrhoea, Dysentery, Vomiting, Eye infection, Headache etc.
38.	Vitex negundo Linn.	Verbenaceae	Sindwar/ Nirgundi	Whole plant, Leaves, Fruits, Seeds	Acute rheumatism, Cough, Fever, Pain, Indigestion, Flatulence, Dullness of hearing, anti- inflammatory, colic, Asthma etc.
39.	<i>Vinca rosea</i> Linn.	Apocynaceae	Sadabahar	Whole plant, Leaves, Roots, Flowers	Leaves are used in blood pressure, diabetes, Skin disease, Leukoderma, Leprosy, Piles, Ring worm, Asthma, blood purification, Laxative, anthelmintic, Cough, Eczema etc.

Although the World Health Organization (WHO) encourages the use of traditional herbal medicines, which have been proven to be safe and effective for health care needs (Anonymous, 1993) it appears imperative to evaluate the medicinal efficiency of such plants. Such attempts will help integrate the traditional medicine with the

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modern system of medicine, thereby making science of it. It is obvious that herbal medicines have good potential, which had not yet been sufficiently explored for utilization in primary health care.





Curcuma longa L.





Pangamia pinnata L.



Ocimum sanctum L.

Some Photographs of Baidhyas were as below: -



RATAN LOHRA



DOMAN SINGH MUNDA



BUDHU SINGH MUNDA

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DONU MAHTO



DHAN SINGH MUND

HARI MAHTO RESULT AND DISCUSSION: -

In this research work, there was 85 ethno medicinal plant species were identified with the help of local Baidhyas and elder knowledgeable person, but only 39 plant species with 31 families were discussed here. All ethno medicinal plants were very important and the local people as well as tribal people rely their primary healthcare with the help of these essential medicinal plant species. The present study demonstrated the persistence of folk medicine practices to cure in different kinds of diseases in West Singhbhum District of Jharkhand. In this way, the arch an people of this area were still dependent on indigenous knowledge for healthcare that were being influenced by culture and socio-economic aspects. People not only disturbed mentally and physically due to different diseases but also expand lot of money for their cure when these were at chronic stage. If these diseases were cured at initial stage, then we can save lot of money and tension. So, these herbal medicines, which are cheap with no side effects or very less side effects will be helpful to cure diseases of all people of this research area. Documenting the indigenous knowledge through ethno botanical studies is important for the conservation and utilization of biological resources. Herbal medicines have no side effects or very less side effects. They are very cheap and harmful. They are easily available. Layman known these medicinal plants with lot of uses. Many of these medicinal plants are present at our garden or our near. Raw plant(s) is also curative activity against diseases.

ACKNOWLEDGEMENT: --

The authors are thankful to the Head, Botany Department, Jamshedpur Co-operative College, Jamshedpur and University Department of Botany, Kolhan University, Chaibasa, Jharkhand for providing all the necessary facilities for research. We are also grateful to the West Singhbhum District authority for their co-operation trended during the field survey. We express our deep sense of gratitude to those numerous tribal informants (Baidhyas, local knowledgeable person, Guni, Ojha, Kaviraj etc.) of the research areas of the district, who freely discussed during the field survey. Without their co-operation, this work would not have been possible.

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