Ethnomedical Plants of Purulia District of West Bengal

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Purulia is the westernmost district of West Bengal and is located between 22 ° 42′ 35′ to 23° 42′ North Latitude and 85° 49′25′ to 86° 54′37′ East Longitude. The district constitutes a transit zone between young alluvial plain of West Bengal and ancient plateau of Jharkhand. The climate of Purulia is characterized by hot summer and well distributed rainfall, Purulia receives about 1400 m.m rain every year. Temperature ranges from 13°C to 46°C Natural vegetation of Purulia can be described as tropical moist deciduous forest but the same has significantly changed because of various anthropogenic reasons. Still about 82% of total area is rural and has got various types of vegetation. Purulia has got remarkable presence of tribal who constitute nearly 18% of total population. Major tribes include Santhals, Oraons, Mundas and Koras,. Tribal people of Purulia have been using various herbs for their therapeutic purpose from ancient period. The present study was aimed at collecting some first hand information's regarding the ethnomediincal plants popular among tribal of Purulia. Tribal dominated area of this district was regularly visited and villages medicine man, elderly, people and merchants of herbs were consulted. Information's collected from them were documented. Plants collected were identified with the help of available literature (Chopra and Chopra, 1992; Sharma, 1996).

PLANT DESCRIPTION

1. BOTANICAL NAME : *Adhatoda vasica* (Nees)

LOCAL NAME: Basak FAMILY: Acanthaceae

CONVENTIONALUSE: Freshleaf juice with honey is used as a remedy for cough and for loosen

the cough. About 3 fresh leaves fried with 3 china rose (*Hibiscus rosa* sinensis) bud and consumed every day with rice to cure piles. The

smoke of dried leaf is advised to inhale to cure asthma.

2. BOTANICALNAME: *Aegle marmolos* (L.)

LOCAL NAME: Bel FAMILY: Rutaceae

 $CONVENTIONAL\ USE: Leaf\ extract\ with\ honey\ is\ used\ in\ treating\ jaundice.\ Fruit\ pulp\ is\ given\ in$

case of dysentery.

3. BOTANICAL NAME: Alostonia scholaris (R.)

LOCAL NAME : Chhatim FAMILY : Apocynaceae

CONVENTIONAL USE: The latex is applied in gums to prevent tooth-decay and tooth-ache. Bark

paste is boiled with 2 cup of water and reduced to ½ cup and applied

onto the mammary glands of women to increase lactation.

4. BOTANICAL NAME: Andrographis paniculater (Wall.)

LOCAL NAME: Kalmegh FAMILY: Acanthanceae

CONVENTIONALUSE: Half spoon of eaf juice with 4-5 cardamom seed powder is used to treat

liver and digestion complaints. Leaf extract mixed with turmeric juice and sugar is taken to cure worms. leaf juice with water and fried cardamom

seed powder is administered for dysentery.

5. BOTANICALNAME: *Argemone mexicana* (L)

LOCAL NAME: Sialkanta FAMILY: Papaveraceae

CONVENTIONAL USE: The yellow latex of the stem is taken orally for seven days for healing of

wounds

6. BOTANICALNAME: Azadirachta indica (A)

LOCAL NAME: Neem FAMILY: Meliaceae

CONVENTIONAL USE: Leaf paste is applied externally for skin disease (allergy). Pieces of fresh

branch are used as tooth brushes to keep mouth clean. It also prevents tooth decay, bad breath and gum diseases. 4-5 gm of Neem bark is left for night in warm water and advised to take early in the morning to cure.

7. BOTANICAL NAME: Boerhaovia repons(L)

LOCAL NAME: Punarnaba FAMILY: Nyctginceae

CONVENTIONAL USE: Root powder is used to treat bronchial asthma. Leaf juice is given to

jaundice patients.

8. BOTANICAL NAME: Cajanus cajan (L.)

LOCAL NAME : Aorhor FAMILY : Papilionanceae

CONVENTIONALUSE: Fresh young leaves are chewed to cure tongue ulcer. Leaf extract

or root bark juice is warmed and used to treat diabetes.

9. BOTANICALNAME: *Calotropis procera* (R. Br.)

LOCAL NAME: Akanda FAMILY: Asclepiadaceae

CONVENTIONALUSE: Decoction of leaves is used for relieving pain in rheumatism. Latex

is used internally in curing piles, intestinal worms etc. Latex is also

applied in case of scorpion sting.

10. BOTANICAL NAME: Carica papaya (L.)

LOCAL NAME: Pepe FAMILY: Caricaceae

 $CONVENTIONAL\ USE: Infusion\ of\ latex\ and\ honey\ is\ given\ to\ children\ for\ expelling\ round$

worms. Latex is also helpful to get relief from pain of burns. It is also

applied on wounds to check haemorrhage.

11. BOTANICALNAME: Cassia occidentales (L.)

LOCAL NAME : Kalkasunde FAMILY : Caesalpinaceae

CONVENTIONAL USE: About 1 gm of fruit powder is advised to eat twice daily to reduce acidity

till cured the leaf powder is mixed with sugar solution and taken in case of whooping cough. Few drops of leaf extract are dropped in nose to get back

the sense from senselessness (Faint).

12. BOTANICALNAME: Catheranthus roseus (L.)

LOCAL NAME: Nayantara FAMILY: Apocynaceae

CONVENTIONAL USE: Leaf infusion is taken to cure indigestion, control blood pressure and

also to check diabetes. The decoction of stem and leaves are used for regulation of menstruation. The leaf paste is used in case of insect (ant,

honeybee) bite.

13. BOTANICAL NAME: Centella asiatica (L.)

LOCAL NAME: Thankuni FAMILY: Umbelliferae

CONVENTIONAL USE: Leaves are boiled in water, and the water is applied on wounds to get quick

recovery, this water is also given for gargling for sore throat. Decoction of

the leaves is administered for dysentery.

14. BOTANICAL NAME : Cinnamomum tamalo (Nees)

LOCAL NAME : Tejpata FAMILY : Lauraceae

CONVENTIONAL USE: The leaf paste is rubbed to cure prickly heat. Leaf powder is applied on

gums to relieve pain from toothache.

15. BOTANICALNAME: Coriandrum satinum (L.)

LOCAL NAME: Bhane FAMILY: Umbelliferae

CONVENTIONAL USE: Coriander leaf chutney serves as an excellent remedy for abdominal pain

caused by indigestion. The paste of seeds ground with some water applied

to forehead to get relief from headache.

16. BOTANICALNAME: *Croton bonplandianum* (Baill.) FAMILY: Euphorbiaceae

CONVENTIONAL USE: Oil obtained from seeds is used as strong purgative.

17. BOTANICALNAME: Curcuma longa (L.)

LOCAL NAME: Halud FAMILY: Zingiberaceae

CONVENTIONAL USE: About I gm of Halud (Amlaki) powder, Neem leaf powder and emblic

powder is advised to eat early in the morning in case of allergy. Inhalation from boiling water or warm taken with milk relieves sore throat Halud powder, salt is lime mined and warmed and is applied on swellings of

sprain.

18. BOTANICALNAME: Cynodon daelylon (L.) Pres

LOCAL NAME: Durba FAMILY: Poaceae

CONVENTIONAL USE: Decoction of leaf with sesame seed oil is administered for scabies. Leaf paste along with turmeric paste is used to cure scars caused due to any skin

infection.

19. BOTANICAL NAME: Datura metel (L.)

LOCAL NAME: Dhutra FAMILY: Solanaceae

CONVENTIONAL USE: The leaf juice is warmed and then applied externally to the swelling of the

body. It is also used in asthmatic complaints. Leaf extract minced with

mustard oil is used in rheumatism.

20. BOTANICAL NAME: *Emblica officinalis*(Gaertn)

LOCAL NAME: Amlaki FAMILY: Euphorbiaceae

CONVENTIONAL USE: The fruit poultice is used to stop bleeding from cuts. The fruit juice is useful

in indigestion. Young fruit pulp (paste) is for applied on scalp for growing

new hair.

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21. BOTANICAL NAME : Eucalyptus globosus (Labill.) FAMILY: Myrtaceae

CONVENTIONAL USE: Oil obtained from dried leaves is used in the treatment of nose, throat disorder, asthmatic complaints and bronchitis.

22. BOTANICALNAME: Foeniculum vulgare (Mill.)

LOCAL NAME: Mouri, Panmouri

FAMILY: Umbelliferae

CONVENTIONAL USE: The decoction of leaves strengthen the eye-sight. Seeds of this plant facilitate digestion

23. BOTANICALNAME: Hemidesmus indicus(L.)

LOCAL NAME: Anantamul FAMILY : Apocynaceae

> CONVENTIONAL USE: The root decoction (About 10 ml) is used thrice a day for one month as blood purifier and in skin disease also. It is also helpful in lactation of mammary gland. The root powder along with honey is administered for dysentery.

24. BOTANICALNAME: Herpestis monnieria (L.)

LOCAL NAME: Bramhi FAMILY: Scrophulariaceae

CONVENTIONALUSE: Leaf - decoction is used as a nerve tonic, and also in epilepsy and

insanity. The leaf juice is warmed, then cooled and mixed with

honey, and taken to get relief from chocked throat.

25. BOTANICAL NAME: Holarrhena antidysentrica (Linn.) wall

LOCAL NAME: Kurchi FAMILY: Apocynaceae

CONVENTIONAL USE: 5 gm bark powder boiled in 2 cup of water and reduced to ½ cup, this solution is administered for diarrhoea and dysentery. The seed

powder is mixed with honey and used to cure worms. The paste of the bark is slightly warmed and applied on abscesses to cure it.

26. BOTANICALNAME: *Hygrophila spinosa* (T.)

LOCAL NAME: Kulekhara FAMILY: Acanthaceae

CONVENTIONALUSE: Leaf extract is consumed everyday to increase the amount of

haemoglobin in blood. Leaf juice is warmed and taken with honey to get relief from foot swelling and to reduce muscle pain.

27. BOTANICAL NAME: Leucas aspera (speng.)

LOCAL NAME: Dronpuspa

FAMILY: Lamiaceae

CONVENTIONALUSE: Decoction of the flower along with warm water is taken to loosen

the cough. 3-4 drops of leaf juice is advised to be take n orally by

the children to cure worms.

28. BOTANICAL NAME: *Madhuca indica* (Gmel.)

LOCAL NAME: Mahua FAMILY: Sapetaceae

CONVENTIONALUSE: A tincture of leaves is used in rheumatism and gout. A tea of

boiled branches is used to treat cold.

29. BOTANICALNAME: *Mentha arvensis*(L.)

LOCAL NAME : Pudina FAMILY : Labiatae

CONVENTIONALUSE: The leaf juice is used in stomach disorders, liver and spleen

diseases. A solution of leaf juice, salt, black pepper powder and lemon juice is taken or ally to reduce a version or tastelessness.

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30. BOTANICALNAME: Nerium indicum (Mill.)

FAMILY: Apocynaceae

CONVENTIONALUSE: Extracted oil from root bark is used in skin disease of a

scaly nature. Fresh leaf juice is applied in eyes for

inducing lachrymator in opthalmia.

31. BOTANICALNAME: Ocimum sanctum (L.)

LOCAL NAME: Tulsi FAMILY: Labiatae

CONVENTIONALUSE: Leaf juice is mixed with honey and used in cough, cold, stomach

trouble and diabetes. Decoction of leaf is applied in case of insect

bite.

32. BOTANICAL NAME: Paderina foetida (L.)

LOCAL NAME: Gandal FAMILY: Rubiaceae

CONVENTIONALUSE: Leaf paste with sesame seed oil is applied externally to reduce

muscle pain. The prepared soup with leaf, is taken to get relief from cough and cold. Leaf juice along with fresh honey is taken

orally to cure dyspesia.

33. BOTANICALNAME: Piper longum (L.)

LOCAL NAME: Pipul FAMILY: Piperaceae

CONVENTIONALUSE: The dried unripe fruit powder is useful in cold, cough, chronic

bronchitis and diarrhoea

34. BOTANICALNAME: Ricinus communis (L.)

LOCAL NAME: Reri FAMILY: Euphorbiaceae

CONVENTIONALUSE: Oil obtained from seed is rubbed on to the boil or burns to get

quick relief. One drop of leaf juice is warmed and dropped on eyes to cure conjunctivitis. Leaf paste is rubbed on to the joints to get

relief from pain.

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35. BOTANICALNAME: *Strychnos nux-vomica*(L.)

LOCAL NAME: Kuchila FAMILY: Loganiaceae

CONVENTIONALUSE: Stem bark along with lime juice is taken orally to treat cholera.

Seed is used as tonic and taken in the treatment of paralysis and

nervous disorders.

36. BOTANICALNAME: Swertia ciliata (L.)

LOCAL NAME: Chirata FAMILY: Gentianaceae

CONVENTIONALUSE: Dried stem and branches are added in water and left for whole

night, this water is advised to be taken early in the morning to reduce acidity, till cured. One gm of powdered leaf and stem is mixed with sugar and water and is taken to reduced vomiting

during pregnancy.

37. BOTANICALNAME: Taraktogenos kurzii (king)

LOCAL NAME : Chalmugra FAMILY : Flacourtiaceae

CONVENTIONALUSE: Seed oil is used in the treatment of leprosy and skin

diseases.

38. BOTANICAL NAME: Trigonella foenumgraceum (L.)

LOCAL NAME : Methi FAMILY : Leguminaceae

CONVENTIONALUSE: The flower is recommended for dysentery, diarrhoea. The seed is

used to resolve inflammatory tumors. ½ gm of seed powder is

taken with warm water to reduce joint pains.

39. BOTANICALNAME: *Vitex negundo* (Linn.)

LOCAL NAME: Nisindha, Buan

FAMILY: Verbenaceae

CONVENTIONALUSE: Boiled leaf water mixed with Neem leaf and is used to cure

wounds. The boiled leaf water is taken to cure joint pains. Leaf

juice with warm oil is rubbed onto the scalp to remove dandruff and also to promote hair growth on bald.

40. BOTANICAL NAME: Zingiber officinales (Rose)

LOCALNAME: Ada FAMILY: Zingiberaceae

CONVERTIONALUSE: Juice of underground part is used in cold and cough. Plant extract

also acts as an antibiotic. Dried powder is applied on wounds to

check haemorrhage.

Various earlier workers like Bhattacharjee (1977), Sarkar and Gupta (2000) and Robin (2004) have reported earlier that ethno medicine constitute back bone of health service among tribal of west Bengal. West Bengal state gazetteer further confirms this condition. Results of this research work also runs in same direction. Tribal people of Purulia district of West Bengal have adequate information about plants and they properly use these ethno medicine to treat various diseases.

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