



Traditional Phytotherapy of some Ethnomedicinal plant species from the Flora of Isapur Wildlife Sanctuary, of Yavatmal District (MS, India)

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Abstract

The Isapur Wildlife Sanctuary of Yavatmal district is located at 19.90° N 77.58° E and covers an area of 29.23 Sq.km. The area is inhabited by tribal like Aandh, Mathura Laman, Banjara & others. These tribals have a tradition of utilizing herbs to cure various ailments. The author has carried out ethno medicinal survey of villages- Isapur, Buti, Lohara, Jamnaik, Nanad, Devthana, Javala, Savargaon, Gaul-manjari, Amadari, Kadapdev, Sukali, etc. And collected ethno- medicinal information from 55 informants. Some important plant species they use as ethno medicine are as *Lagerstroemia parviflora* Roxb. (For high grade fever), *Grevia tilifolia* Vahl. (For Azospermia), *Diospyros melanoxylon* Roxb. (Skin & Urinary diseases), *Ficus amplissima* Rees.1810 (For diabetes), *Careya arborea* Roxb. (Ulcer, Wound & Healings), *Limmonia acidissima* L. (Increasing Chances to arrive pregnancy & also for lowering B.P.), *Canscora diffusa* Vahl. R.Br. (For Dysentery & Fever), *Nardostachys grandiflora* DC. (For cure Benign tumor and wounds), *Annona squamosa* L. (For Lowering B.P.), *Bauhinia purpuria* L.(For lowering B.P., Throat infection, Stomuch ach, Diarrhea etc.), *Abelmoschus ficulneus* Wight. & Arn. (Stomuch ulcer, Veginal infection, also for cure benign tumors internally & externally) etc.

INTRODUCTION

The Isapur Wildlife Sanctuary of Yavatmal district is located at 19.90°N 77.58° E and covers an area of 29.23 Sq.km. The area is inhabited by tribal like Aandh, Mathura Laman, Banjara & others. These tribals have a tradition of utilizing herbs to cure various ailment. There is vast possibility of documentation of ethnomedicinal information which can be useful in finding new plant drugs. The area protected, undisturbed and hence are ideal places for yielding new drug plants. The ethnomedicinal information documented through this research work may prove beneficial for human beings.

Material and Method

The ethnomedicinal information was documented by organizing semi-structured interviews with the Vaidus, herbalists, and bhagats residing in the area. The empirical ethnomedicinal with the Vaidus, herbalists, and bhagats residing in the area. The empirical ethnomedicinal information was recorded in a definite format. The plant specimen shown by the informants in the fields were preserved.

The information collected by the informants in the area of Isapur wildlife sanctuary of Yavatmal

district. The Isapur wildlife sanctuaries includes the village mainly Isapur, Buti, Lohara, Jambnaik, Ansing, Nanad, Devthana, Javala, Savargaon, Gaulmanjari, Amadari, Kadapdev, Sukali, etc. of Pusad Tehasil of Yavatmal district.

Results and Observations

Table: Studied plant List

Sr. no.	Name of plants	Vernacular name	Family	Informants	Part used	Ailment Treated
1	<i>Lagerstroemia parviflora</i> ROXB.	Lendi	Lythraceae	Mushir Abbas Khan, At Post-Isapur, Tehasil-Umarkhed Cast-Muslim	Stem	Fever
2	<i>Grewia tilifolia</i> Vahl.	Dhaman	Malvaceae	Premising Bhikana Rathod At Post-Buti Cast-Banjara	Fruits	Azospermia
3	<i>Diospyros melanoxylon</i> Roxb.	Tendu	Ebenaceae	Rohidas Bhikana Rathod At Post-Buti Cast-Banjara	Leaves	Skin infection, Urinary infection
4	<i>Ficus amplissima</i> (Rees. 1810)	Piprin	Moraceae	Sundar Ramdhan Rathod At Post-Buti Cast-Banjara	Stem Barks	Use as antidiabetics
5	<i>Careya arborea</i> Roxb.	Kumbhi	Lecythidaceae	Birchand Dhansing Rathod At Post-Buti Cast-Banjara	Stem Bark	Cough, Cold, wounds, Healings.
6	<i>Limmonia acidissima</i> L.	Kavath	Rutaceae	Vishnu Kaniram Rathod At Post-Lohara(Ijara) Cast-Banjara	Fruits Leaf	Cough, Cold & Diarrhea, dysentery. For Arrive pregnancy
7	<i>Canscora diffusa</i> (Vahl) R.Br.	Bhuinim	Gentianaceae	Rohidas Rangarao Chavhan At Post-Lohara(Ijara) Cast-Banjara	Leaf	Fever & dysentery.
8	<i>Nardostachys jatamansi</i> (DC)	Jatamansi/J atashankar	Caprifoliaceae	Yuvaraj Vishnu Rathod At Post-Lohara(Ijara) Cast-Mathura laman	Root	To cure intestinal worms, Tumors & also used for skin infection
9	<i>Annona Squamosa</i> L.	Sitafal	Annonaceae	Arun Kisan Chavhan At Post-Lohara(Ijara) Cast-Banjara	Leaf	Crushing mixture of Leaf is used as to lowering blood pressure.
10	<i>Bauhinia purpuria</i> L.	Ragtakanchan	Caesalpiniaaceae	Devidas Balu Boke At Post-Jamnaik1 Cast-Andh	Roots	Lowering B.P., Diarrhea & Throat infection
11	<i>Abelmoschus ficulneus</i> (L.) Wight & Arn.	Ranbhendi/Jangali Bhendi	Malvaceae	Janardhan Balu Boke At Post-Jamnaik1 Cast-Andh	Fruits	Stomach ulcer, Skin infection, Cough, throat infection.

12	<i>Commiphora wightii</i> (Arn.)Bhandari	Guggul	Burseraceae	Shankar kanha Gulave At Post-Jamnaik1 Cast-Vholer	Stem Barks	Use for decreased synthesis of cholesterol.
13	<i>Anacyclus pyrethrum</i> (L.)Link	Akkarkara	Asteraceae	Manoj Keshavrao Dakhore At Post-Devthana Cast-Andh	Flower	Cough,Asthama & also used as increase the Testosterones level in Male.
14	<i>Cocous nucifera</i> L.	Nariyal	Arecaceae	Bapurao Ramrao Maske At Post-Javala Cast-Hatkar	Fruits cover	Stomuch and veginal infection
15	<i>Acorus calamus</i> L.,1753	Vekhand	Acoraceae	Rama Sayaji Gayakawad At Post-Nanad 3 Cast-Andh	Rhizome	Stomuch ulcer and skin infection
16	<i>Bryophyllum pinnatum</i> (Lam.) Oken	Panfuti	Crassulaceae	Haridas Ganpat Kale At Post-Jamnaik 2 Cast-Andh	Leaf	Kidney stone,for lowering B.P.
17	<i>Benincasa hispida</i> (Thunb.)-Cogn.	Kohala/Golkadu	Cucurbitaceae	Datta Hanuvata Burkule At Post-Nanad 2 Cast-Andh	Fruit	For Yellow Jaundice
18	<i>Cleome rutidosperma</i> DC.	Nili Tilwan	Cleomaceae	Sayyed Mehamud S.Nabi At Post-Nanad 3 Cast-Muslim	Leaf	Tooth aches
19	<i>Ruta graveolens</i> L.	Satap	Rutaceae	Uttam Hanuvata Burkule At Post-Nanad 2 Cast-Andh	Leaf	Gastric discomfort & Eye sight improvement.
20	<i>Borassus flabellifer</i> L.	Tad	Arecaceae	Santosh Shamrao Walale At Post-Nanad 2 Cast-Andh	Young Root	Dysentery&Respiratory disorder.
21	<i>Caesalpinia bonduc</i> (L)	Shirgola/Sargota	Caesalpiniaeae	Satavarao Manikrao Maske At Post-Ansing Cast-Hatkar	Seed	Digestive disorder,piles,worm,cough and asthama
22	<i>Pedaliium murex</i> L.	Mothe-Gokharu	Pedaliaceae	Tukaram Sudam Chirange At Post-Lohara(Ijara) Cast-Andh	Fruits&leaf	Antipyretics,ant ulcerative.
23	<i>Madhuca longifolia</i> (J.Konig)J.F.Macbr.	Moha	Sapotaceae	Purabha Maroti Kambale At Post-Gaulmanjari Cast-SC	Fruits	Urinal Problems,Hell cracks
24	<i>Catharanthus pusillus</i> (Murray)G.Don	Ran kel,Tiloni	Apocynaceae	Vilas Jayram Kambale At Post-Gaulmanjari Cast-SC	Stem	Diabetes&Malaria
25	<i>Thespesia populnea</i> (L.)Sol. ex Correa	Parasa Pimpal	Malvaceae	Pushpabai Rangarao Maske At Post-Gaulmanjari Cast-SC	Fruits Roots	Fruits for arrive pregnancy For lowering B.P.

26	<i>Maytenus emarginata</i> (Willd.)Ding Hou	Bharatti	Calastraceae	Sambha Gangaram Manvar At Post-Amadari Cast-SC	Roots	Asthama &Bronchitis
27	<i>Tridax procumbens</i> L.	Lokhandi	Asteraceae	Rama Munjaji Burkule At Post-Amadari Cast-Andh	Leaf	Wounds and Healings
28	<i>Luffa acutangula</i> Roxb.	Kadu Dodaka	Cucurbitaceae	Nathu Tukaram Dukare At Post-Amadari Cast-Andh	Fruits	For Jaundice
29	<i>Blepharis repens</i> (Vahl.)Roth.	Hadasan	Acanthaceae	Babusing Ramchandra Chavhan At Post-Lohara(Ijara) Cast-Banjara	Whole Plant	For Rheumatism Bone Fracture.
30	<i>Acacia leucophloea</i> (Roxb)Willd.	Hivar	Mimosaceae	Yadav Dulaji Rankhamb At Post-Hivalani Cast-Baudh	Stem Bark	Diphtheria&heat related problems
31	<i>Solanum virginianum</i> L.	Bhui Ringani	Solanaceae	Suresh Vidyadhar Rathod At Post-Kadapdev Cast-Banjara	Root Seed	Urinary diseases Tooth aches
32	<i>Cissus quadrangularis</i> (L.)	Had Jodi	Vitaceae	Nagorao Khanduji Mule At Post-Sukali Cast-SC	Stem	As Bone Fracture
33	<i>Solanum nigrum</i> (L)	Kamuni	Solanaceae	Kundalik Devaji Guhade At Post-Andha Cast-Andh	Leaf	Jaundice in Childerns
34	<i>Prosopis juliflora</i> (Sw.)DC	Vilayati Babhul	Fabaceae	Siddharth Tukaram Dandekar At Post-Dhanora Cast-NavBaudha	Roots	For Jaundice
35	<i>Abrus precatorius</i> (L),1753.	Pandhari Gunj	Fabaceae	Devadas Sambhaji Wadhve At Post-Vakudi Cast-Baudh	Leaf	Throat and mouth infection.
36	<i>Ventilago denticulata</i> Willd.	Khandvel/Sakalvel	Rhamnaceae	Kondaba Raghaji Paikrao At Post-Durgsavangi	Leaf	Skin diseases and Fever
37	<i>Tacca leontopetaloides</i> (L)Kuntze.1891	Penghagara	Dioscoreaceae	Narayan Chimmaji Sonune At Post-Durgsavangi Cast-Baudh	Root	Digestive diseases
38	<i>Cyperus rotundus</i> (L)	Leval Gavat	Cyperaceae	Madhukar Pandurang Malgunde At Post-Durgsavangi Cast-Hatkar	Stem&leaf	Antidote for watery snake
39	<i>Citrullus colocynthis</i> (L)Schrader.	Kadu Indravan	Cucurbitaceae	Uttam Wamanrao Kavade At Post-Durgsavangi Cast-Hatakar	Leaf&Flower	Antidiabetics, Skin Infection.
40	<i>Striga gesnerioides</i> (Willd.)Vatke	Bambakhu	Scrophulariaceae	Shivaji Taterao Jamdade At Post-Durgsavangi Cast-Maratha	Whole Plant	Piles and Fischer's
41	<i>Acacia notica</i> Lam.	Babhul	Mimosaceae	Sahebrao Rajaram Jamdad At Post-Durgsavangi Cast-Maratha	Stem	For Jaundice
42	<i>Nyctanthes arbor-tristis</i> L.	Parijatak	Oleaceae	Dnanesvar Narayan Sonune At Post-Dugasavangi Cast-Baudh	Leaf, stem	Brain Fever& Blisters on Brain.

43	<i>Naregamia alata</i> Wight&Arn.	Tinpani	Meliaceae	Shaikh Ramababa Shaikh Amir At Post-Isapur Cast-Muslim	Root	Anemia,Migran e,Cough,astham a&Bronchities.
44	<i>Achyranthes aspera</i> Linn.	Apamarg/ Rankutri	Amaranthac eae	Pralhad Rajaram Sathe At Post-Durgsavangi Cast-Matang	Seed& Leaves	Used as Scorpion bite&eye disorder.
45	<i>Helicteres isora</i> L.	Murudsheng	Malvaceae	Vinayak Dadarao Maske At Post-Khanapur Cast-Hatakar	Pod	Stomuch achs&ulcer
46	<i>Buchanania lanzas</i> Spreng.	Charoli	Anacardiace ae	Ulhas Fulsing Rathod At Post-Khanapur Cast-Mathura Laman	Leaf	Decrease cholesterol
47	<i>Oxalis corniculata</i> L.	Amboti	Oxalidaceae	Gajanan Hari Pawar At Post-Khanapur Cast-Mathura Laman	Leaf	Digestive And Stomuch diseases.
48	<i>Ficus carica</i> L.	Anjir	Moraceae	Apparao Lakshmanrao Haral At Post-Savargaon Cast-Hatakar	Fruit	Digestive,cough &Arrive pregnancy.
49	<i>Pterocarpus santalinus</i> L.f.	Ragtachanda na	Fabaceae	Sahebrao Dattarao Khedekar At Post-Savargaon Cast-Maratha	Stem/Heart wood	Use for high cough,fever,diar rhea,Eye disorder.
50	<i>Carissa spinorum</i> L.	Karvand	Apocynacea e	Shekh Daud S.Maheebub At Post-Savargaon Cast-Muslim	Fruit	Use for anemia
51	<i>Aquilaria malaccensis</i> Lam.	Agar	Thymelaec eae	Dhavaji Seva Rathod At Post-Savargaon (Bangala) Cast-Mathura Laman	Stem	Wounds, Blood purifier,&urinar y diseases.
52	<i>Tabernaemontan a divaricata</i> R.Br.ex Roem&Schult.	Tagar	Apocynacea e	Vitthalrao Apparao Maske At Post-Pachkuduk Cast-Baudha	Stem Bark	Intestinal worms ,Skin diseases &Eye diseases
53	<i>Echinops echinatus</i> Roxb.	Utakatari/Br amhadandi	Asteraceae	Hakim Yakub Rustum Pathan At Post-Shembalpipri Cast-Muslim	Root	Acidity,Cough, Asthmatic disorder,Sexual stimulant etc.
54	<i>Hemidesmus indicus</i> (L)R.Br	Upalsari	Apocynacea e	Dharma Narayan Chavhan At Post-Lohara(Ijara) Cast-Mathura laman	Root	Stomuch achs,Blood purifier,Odema etc.
55	<i>Drimia indica</i> (Roxb.) Jessop	Rankanda	Asparagacea e	Haji Samad Khan Haji Niyamad Khan At Post-Isapur Cast-Muslim	Bulb	Respiratory diseases, Bone&joints complication,sk in infection.

DISCUSSION

The present investigation includes over more than 150 plants out of which this investigation report of only 55 plants of 37 families. Use of these plants mainly is to treat asthma, fever, skin diseases, Menstrual problems, Poisonous bite, Azospermia, PCOD, Stomach ache, eye diseases, toothache, Jaundice, Diabetes, Blood Pressure, hypercholesterolemia, urinary diseases, kidney diseases, ear diseases etc. Majority of the species used are from families Malvaceae and Apocynaceae (4 each), Cucurbitaceae, Fabaceae and Asteraceae (3 each), Rutaceae, Arecaceae, Caselpiniaceae, Solanaceae, Mimosaceae, Moraceae, (2 each) and majority of preparations from leaves(19), Roots(13), Fruits(11), Stem(8), Stem Bark(5), Seed/Pod(4), Flower(2) etc. Ethnomedicinal studies preferably promote the interaction between organized traditional medicine and folk medicine.

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