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# Ethno-Veterinary Plants Used In Foot And Mouth Disease By Bheel Bhiala And Barela Tribal Groups Of Sendhwa Dist. Barwani, M. P., India

Dr. Priya Trivedi<sup>1</sup>, Neeta Vishwakarma<sup>2</sup> and Dr. Jeetendra Sainkhediya<sup>3</sup> Dr. A.P.J. Abdul Kalam University, Indore, M. P.India<sup>1&2</sup> Govt. P. G. College Sendhwa, Dist. Barwani, M.P.India<sup>3</sup> Corresponding author: Dr. Jeetendra Sainkhediya

#### Abstract

Sendhwa block of Barwani district is situated inside the western a part of Madhya Pradesh, India & the most fertile region. Lands are mainly rain-fed. the existing look at with geo-botanical approach has been performed in the district to collect facts on Foot and Mouth disease (FMDs)to include This examine looks at neighborhood use of (FMDs)accumulated from forest areas and trading of 24FMDs on the basis of field surveys and taxonomic identification of flora. It highlights the importance of expertise how tribal groups use forests, and the need to develop the targets of management of these forests to consist of a multiplicity of targets and merchandise with geo-botanical technique. It's far inhibited with the aid of tribal groups like Bhil, Bhilala, and Barela. An intensive and extensive plant survey of area turned into performed throughout 2021-2022 present look at observes 20 families and 24 genera and 24 species. The observe indicates the importance of information on the ethno veterinary plants which should be assigned to woodland lands .Tribal communities used those texa as FMDs in traditional way that is utilized in extraordinary types of sicknesses . Most frequently used plant species are Acacia nilotica (L.)Delile, Aegle marmelos (L.) Cor., Aristolochia bracteolata Lam., Azadirachta indica Juss., Barleria prionitis L., Bauhinia variegata L., Curculigo orchioides Gaertn., Lawsonia inermis L., etc.Most of the cases plant decoctions as external wash are applied sometime chemicals like e-copper sulphate, salt, Kerosine are used as external washes. In some cases ethnovereinary and allopathy treatment have beentaken in combination.

Key words: FMDs, Sendhwa, tribal communities, Bheel, Bhiala, and Barela.

#### Introduction

India has a very rich heritage of traditional healthcare system for livestock through Ayurveda, Unani and Homeopathic system of medicine which has been used since time immemorial and there is another system of medicine parallel to this which is called as folk medicine, tribal medicine or ethno medicine. Wooded area productions an important role within the socio-economic life of tribal human beings in fact their lifestyles can't be imagined without wooded area. Series and promote of various minor forest merchandise for business functions are considered as vital way in their livelihood. The tribal humans seasonally acquire numerous FMDs, to meet the wishes for their meals, fodder and medicinal drug (Soren, P. & Naik2020.)

Madhya Pradesh holds maximum rank in tribal population of India. In keeping with 1991 census, the tribal population of the country is ready 153, 99,034 which debts 23.27% of the nation's overall populace. There are 46 tribal communities inside the kingdom divided into greater than 100 ethnic corporations. The nation is very wealthy in biodiversity and ethno-diversity of the United States of America. Forests are inseparable part of the tribal's.

The tribal's are essentially forest dwellers and have been depending upon woodland for generations because it no longer best offers them protection and safe haven however additionally refuge to their pantheons and lots of benevolent and malevolent sprits and ghost and even to their totem. The tribal and forest interface, though, isn't limited to placed a wooded area as a tribal habitation. It's far crucial to discover the principle problems which challenge their courting many of the forest for their bodily and cultural survival, supposed as "symbiotic" in the woodland Rights Act 2006 (Soren, & Naik 2020).

They are nearly completely depending on forests for food, shelter, especially in medicine and garb. They collect roots, tubers, etc., and especially FMDs used plants as well as many others for satisfy their day to day necessities. little or no paintings has been carried out on FMDs aspects of tribal's for upliftment of their financial popularity through domestically available raw materials. A few crucial studies from ethno veterinary factor of view have been made at positive locations (Bhalla et. al., 1986, Jain 1988, Maheshwari 1990, Maheshwari and Painuli 1990).

#### Study area

Sendhwa is the headquarters for Sendhwa tehsil, and, the largest town in the district. The call Sendhwa turned into derived after the rulers Sendhwa at length of holkars (Sisodiya & Sainkhediya 2018). Geographically Sendhwa is positioned 16 km from Maharashtra & Madhya Pradesh Border. Sendhwa lies among parallel of range 21°41′05″N and 75°05′43″E. The vicinity is bounded by the Rajpur tehsil to the north, Warla tehsil in south, Niwali to west, and Khargone district to east. The eastern a part of the district is blanketed by way of Satpura hill levels and northerly a part of Malwa plateau, and Narmada valley. Sendhwa fortress is situated in the middle part of city and it became constructed in tenth Century. It is classical instance of 4 directional Gate with Temple at most important entry gate. In look at region the simplest crop is a single maize as well as cotton, and soybean harvest, as a consequence products from the wooded area play a giant position inside the livelihood of local people, mainly the tribal groups. The land surface attains a most altitude of 409 m (1,342 ft) above imply sea level. Demographically Sendhwa had a populace of 56,485 (Census 2011). Sendhwa has a mean literacy price of 63%.

#### Methodology

Research of traditional vegetation has been done in Sendhwa at some point of 2022-2023 information on the plant species and facts in different seasons of the year. The research is targeted on both quantitative and qualitative information the usage of empirical field work. The respondents have been given a structured interview agenda. Plant series finished with the resource of well-known technique (Jain and Rao, 1977). Plant specimens were preserved by means of dipping the whole specimens in saturated solution of Mercuric chloride and alcohol. Dry and preserved plant life installation on herbarium sheets by means of adhesive glue and fevicols. Identification of flowers finished with the help of vegetation (Verma et.al., 1993; Mudgal et al.1997; Khanna et al., 2001; Shah, 1978; Duthi, 1960; Gamble, 1915; Hains, 1921-1924; cook, 1903; Hooker, 1872-1897; Naik, 1998) and different taxonomic literature.

#### **Review of literature**

Botanical examine is a critical prerequisite for an entire lot vital studies in tropical community ecology. For the conservation and sustainable control of any wooded area; it requires an extremely good brilliant of its biodiversity (Sainkhediya 2016). The richness of flowering plants makes India one of the mega variety global locations inside the global with 4 biodiversity hotspots and three mega facilities of endemism. India ranked 7th among 17 mega range international places of the arena and greater than 17,000 species of higher flora are stated to India (anonymous 1993). Botanical information is essential for human survival due to loss of medicinal remedy aren't to be had in a long way off regions on this place so humans have rely upon traditional natural plants.

keeping this in mind this examine is finished to discover Ethno veterinary information in Sendhwa dist. Barwani, Madhya Pradesh, India because of the truth there can be no paintings is accomplished in this region. A small painting is completed on Sendhwa vicinity through Ray and Sainkhediya 2012, Sainkhediya 2014; Sainkhediya, and Ray, 2014, Sisodiya & Sainkhediya 2018; Sainkhediya 2019; Ray & Sainkhediya & Patil 2019; Sainkhediya, 2019; Sainkhediya *et. al.* 2021; Sainkhediya and Rawat 2022; Sainkhediya & Trivedi 2021; Sainkhediya *et. al.* 2022; Sainkhediya and Ahirwar 2022; Sainkhediya and Rawat 2022; Sainkhediya and Rawat 2022; Sainkhediya and Aske 2022; Sainkhediya and Muvel 2022; Sainkhediya and Ahirwar 2022; Sainkhediya *et. al.* 2022, Trivedi, & Sainkhediya 2022, but no work has been performed on monetary cost of FMDs of the location.

#### **Results & Discussion**

Sendhwa block of Barwani district is situated inside the western a part of Madhya Pradesh, India & the most fertile region. Lands are mainly rain-fed, the existing look at with geo-botanical approach has been performed in the district to collect facts on Foot and Mouth disease (FMDs)to include This examine looks at neighborhood use of (FMDs)accumulated from forest areas and trading of 24 FMDs on the basis of field surveys and taxonomic identification of flora. It highlights the importance of expertise how tribal groups use forests, and the need to develop the targets of management of these forests to consist of a multiplicity of targets and merchandise with geo-botanical technique. It's far inhibited with the aid of tribal groups like Bhil, Bhilala, and Barela. An intensive and extensive plant survey of area turned into performed throughout 2021-2022 present look at observes 20 families and 24 genera and 24 species. The observe indicates the importance of information on the ethno veterinary plants which should be assigned to woodland lands .Tribal communities used those texa as FMDs in traditional way that is utilized in extraordinary types of sicknesses. Most frequently used plant species are Acacia nilotica (L.)Delile, Aegle marmelos (L.) Cor., Aristolochia bracteolata Lam., Azadirachta indica Juss., Barleria prionitis L., Bauhinia variegata L., Curculigo orchioides Gaertn., Lawsonia inermis L., etc. Most of the cases plant decoctions as external wash are applied sometime chemicals like copper sulphate, salt, Kerosine are used as external washes. In some cases ethnovereinary and allopathic treatment have been taken in combination.

#### Conclusion

This article analyses the role of FMDs plants in livelihoods-development projects and considers recent tasks meant to beautify their conservation and sustainable control. It recommends policies to optimize the potential of FMDs plants, each to aid rural livelihoods and to contribute to India's social, monetary, and environmental properly-being. Investigations had been made on medicinal values of better flora. A complete know-how of the complexity of wooded area usage with the aid of neighborhood tribal groups ends in a need to change management techniques for these regions.

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Sn	Botanycal name	Family
1.	Acacia nilotica (L.)Delile,	Leguminosae
2.	Aegle marmelos (L.) Correa	Rutaceae
3.	Allium sativum L.,	Liliaceae
4.	Aristolochia bracteolata Lam.,	Aristolochiaceae
5.	Azadirachta indica A. Juss.,	Meliaceae
6.	Barleria prionitis L.,	Acanthaceae
7.	Bauhinia variegata L.,	Leguminosae
8.	Brassica juncea (L.) Czern.,	Brassicaeae
9.	Calotropis procera (Aiton) Dryand.,	Apocynaceae
10.	Citrullus colocynthis (L.) Schrad.,	Cucurbitaceae
11.	Clerodendrum phlomidis L.f.).,	Lamiaceae
12.	Colocasia esculanta (linn) melet,	Araceae
13.	Coriandrum sativum L.,	Apicaeae
14.	Curculigo orchioides Gaertn.,	Hypoxidaceae
15.	Curcuma longa L.,	Zingiberaceae
16.	Ficus benghalensis L.,	Moraceae
17.	Lawsonia inermis L.,	Lythraceae
18.	Nerium indicmL.,	Apocynaceae
19.	Prosopis cineraria (L.) Druce,	Leguminosae
20.	Ricinus communis L.,	Euphorbiaceae
21.	Semecarpus anacardium L.f.,	Anacardiaceae
22.	Sesamum indicum L.,	Pedaliaceae
23.	Trigonella foenum-graecum L.,	Leguminosae
24.	Vitex negundo L.,	Verbinaceae

#### Table-1: FMDs taxa used by Bheel, Bhiala and Barela tribal communities