ISSN: 2320-2882



INTERNATIONAL JOURNAL OF CREATIVE **RESEARCH THOUGHTS (IJCRT)**

An International Open Access, Peer-reviewed, Refereed Journal

Documentation Of Ethno Medicinal Plants Used In Tribes Of Tapi District, South Gujarat.

Dr. Prajapati Gopee G., Dr. Dinesh Kumar Singh, Dr.Rajeshree Patel Shri Jagdish Prasad Jhabarmal Tibrewala university, VidyaNagari, Jhunjhunu – Churu Road, Chudela Dist. Jhunjhunu, Rajasthan - 333001

Keywords

Ethno medicinal plants, Tribal, Traditional medicines, Tapi District, Gujarat.

Abstract

Information about the identification of various medicinal plants and their uses has been obtained during the visit of Tapi district during 2020-2021. Tapi district was formed on October 2, 2007, with the separate of some taluka of Surat district, which is in the South of Gujarat state. Whose headquarters are Vyara. Tapi district is located between 21.05° North latitude and 73.20° East longitude. It has an area of about 3434.64 sq.km. This district lies in the east between Maharashtra state, Surat district on the west, Dang & Navsari on the South & Narmada district on the north, Medicinal plants found in various forests of Tapidistrict and used by tribal people are Shown. The total forest area of Tapi district is 90760.3235 ha. Songadh – Uki area in this district has thicker forests. The calculation and uses of 107 species of medicinal plants belonging to more than 27 families are shown during the visit. Of which 15 medicinal plants are mentioned here. These include species of tree(36), shrubs(26), herbs(30), Climber(10) & tubers(5) etc. This includes most of the plants of the family Fabaceae and Malvaceae.

Introduction

The study of Ethnobotany uses the Vegetation found in any area and the local Culture as well as the traditional Knowledge of the people. The use of endemic plants in ethnobotany has beenfound to be Practically useful in dealing with aspects of life such as medicines, food, drugs and clothing.

"Ethnobotany is a plant used by people in different state and different parts of the world." "Ethnobotany is the link that Connects both humans and plants."

Many plants have been used as medicine Since ancient times, Many medicinal plants are also mentioned in the Vedas. Herbs are used medicinally in all Countries of the world. About 40% of people use Such herbs as herbal remedies. 60% of people in India use medicinal plants. India also has a rich heritage of medicinal plants. India has more tribal people as well as other people than any other Country. These tribes also have a good knowledge of medicinal plants.

Kartika and Basu(1993) mention medicinal plants in their volume. In addition, Rastogi and Malhotra's Glossary of companions (1991-1998) have classified as well as designed many medicinal plants.(Chopra et al 1956) discusses the chemical and biological constituents of various plants in his book medicinal plants. (Jain et al 2005). All also mentions medicinal plants are commonly used in homes to make traditional medicines. It has been researched in Ayurvedic to make medicines of many medicinal plants for therapeutic action. Herbal medicines are very important in primary health Care. Gujarat in the western part of India has Very little forest land. (Kumar et al2013). About 15% of the tribal population is found here. On the Southern side of Gujarat, tribal Communities are found in districts like Valsad, Surat, Narmada, Bharuch, Navsari, Dang. Who mostly use various plant species as medicine (Umadevi 1988, kumar et al 2014). Out of 2000 plant species in Gujarat, 760 medicinal plants and 450 plant species are economically useful.

Material & Methods Study area

Study area in Tapi District, Gujarat. Tapi district was formed on October 2, 2007, with the separate of some talukaof Surat district, which is in the South of Gujarat State. Whose headquarters are Vyara. Tapi District is located between 21.05° North latitude and 73.20° East longitude. It has an Area of about 3424.64 sq.km. This District lies in the east between Maharashtra State, Surat District on the west, Dang and Navsari on the south and Narmada district on the north. This district receives about 1926mm of rainfall. Songadh-Ukai area of this district has thicker forests. Padmadungari area in this district is surrounded by forests. The population of Tapi district is 8,06,489 as per 2011 census. Tapi district consists of 7 talukas Vyara, Songadh, Valod, Dolvan, Uchhal, Nizar, Kukarmunda and 249 villages. The total forest area of Tapi district is 90760.3235 ha. Which includes up to 10 range areas. Range areas like Vyara, Unai, Fort Songadh, Sadadvel, Malangdev, Kherwada, Tapti, Vajpur, Neshu East, Neshu West are located. There are two types of forests in this range area :-

(1) Reserve

(2) Protected

Vyara and Unai range areas have the highest forest cover. The forest area of Vyara is 11602.1650 ha. and the forest area of Unai is 10982.4450 ha. As on 31 st march 2019 the total forest area of Tapi district is 90760.3235 ha. Tapi district has been visited to collect information on medicinal plants. In which traditional knowledge and information of medicinal plants as well as information of useful medicinal plants by Chaudhary, Gamit, Vasava, Konkani tribal tribes living here have been obtained. Presented information of medicinal plants used by tribal living in Songadh, Dolwantaluka of Tapi district. Field work has been done by visiting this area frequently during 2021. Apart from this information has been collected by visiting villages like Umrada, Kalghar, Chimer, Medsingi, Hindla, Aambapani, Mangalia discussing with the tribal. The data has been collected in consultation with the elderly local healers living in these villages. The herbarium is designed for the identification of all these medicinal plants. Information is collected including common names of plants, scientific names, family, useful parts, medicinal uses etc.

Data Collection

The total forest area of Tapi district is 90760.3235 ha. Each plant has been identified with the help of local people. Information about each plant is collected through interviews and questionnaires of local people. Which are as follows.

- What is the name of the person? (1)
- (2) How old are they?
- What is your educational qualification? (3)
- What do you do business? (4)
- What is the use of this plant? (5)
- In which habit is this plant found? (A) Climber (6)
- (B) Trees (C) Shrubs

- Which is any useful this plant? (7)
- What is the common name of the plant? (8)
- In which human diseases is this useful? (9) Medicinal plant samples have been identified by asking such questions to knowledgeable men, women, young and the elderly. Information about all the plants has been obtained by visiting Dharmashibhai Bhiliabhai Konkani, He has been working for 27 years in the forest department of Amania village in Dolwan taluks of Tapi district. His current occupation is farming. He has been conserving the forest for 27 years. They have done academic studies up to 5th standard. He has provided information as well as identification of many medicinal plants. A record of each plant is visited by the field and work is done on the plant names. The botanical name of each plant is recorded from the international code. Each medicinal plants collected has been identified and named with the help of Indian flora as well as medicinal plant literature.

Result

The tribes use many plants of medicinal value in Tapi district, Gujarat. The list of the most useful medicinal plants is given below.

- (1) Allium sativum
- Family name of the plant :- Amaryllidaceae
- Local name of the plant :- Lasan
- Useful part of the plant :- Leaves, Bulbs
- Plant type :- Herbs
- Medicinal use of the plant :- Healing, detoxification, stomach problem, Help in lowering pressure, cholesterol, Any infection, controls Diabetes, treats Dysentery, Heart health, Respiratory problem
- (2) Artemisia vulgaris
- Family name of the plant :- Asteraceae
- Local name of the plant :- Damro
- Useful part of the plant :- Leaves
- Plant type :- Herb
- Medicinal use of the plant :- Stomach and intestinal condition including colic, diarrhea, constipation, cramps, weak digestion, infestation, persistent vomiting, liver tonic, epilepsy, irregular periods, Headache.
- (3) Abrus precatorius
- Family name of the plant :- Fabaceae
- Local name of the plant :- Chanothi/Gunja
- Useful part of the plant :- Leaf, seeds
- Plant type :- Climber
- Medicinaluse of the plant :- Therapeutic effects, ulcers, wounds, throat scratches, paralysis, sciatica, Arthritis, abortion
- (4) Aegle marmelos
- Family name of the plant :- Rutaceae
- Local name of the plant :- Billi
- Useful part of the plant :- Leaf, Fruits, Flower

- Plant type :- Tree
- Medicinal use of the plant :- Stomach problem, asthma, Anemia, High blood pressure, Jaundice, Diarrhea, Brain typhoid, pregnancy, vomiting, eye disorders, diabetes
- (5) Anogeissussericea
- Family name of the plant :- *Combrataceae*
- Local name of the plant :- Andrak
- > Useful part of the plant :- Leaf, wood
- ➤ Plant type :- Tree
- Medicinal use of the plant :- Tied to relieve pain, wounds
- (6) Alangiumsalvifolium
- Family name of the plant :- Cornaceae
- ► Local name of the plant:-Ankol
- ➤ Useful part of the plant:-Wood, Seed, Root, Bark, Stem, Leaf
- ➤ Plant type:- Tree
- Medicinal use of the plant :- Hypertension, Diabetes, epilepsy, cancer, inflammation, ulcer, fever, Jaundice, Diarrhea, Vomiting, piles, Rheumatic pains, Headache
- (7) Adina cordifolia
- Family name of the plant :- Rubiaceae
- Local name of the plant :- Haldu
- ➤ Useful part of the plant :- Wood, Leaf, Bark, Stem
- ➤ Plant type :- Tree
- Medicinal use of the plant :- Cough, Jaundice, Stomachache, diarrhea, dysentery, cholera, fever, headache, urine complaints rheumatism, Remove pain and swelling, wounds
- (8) Anogeissus latifolia
- Family name of the plant :- *Combrataceae*
- Local name of the plant :- Dhavdo
- > Useful part of the plant :- Bark, Gum, Stem
- ➤ Plant type :- Tree
- Medicinal use of the plant: Skin diseases, liver complaints, fever, epileptic fits, UTI infection, urinary discharges, piles, diarrhea, cough
- (9) Alstonia scholaris
- Family name of the plant :-Apocynaceae
- Local name of the plant :-Saptparni
- Useful part of the plant :-Bark, Latex
- ➤ Plant type :-Tree
- Medicinal use of the plant :-Asthma, malaria, fever, dysentery, diarrhea, epilepsy, skin diseases, snakebite
- (10) Abutilon indicum
- Family name of the plant :-Malvaceae
- ➤ Local name of the plant :- Dabli, Kanski
- ➤ Useful part of the plant :- Leaf, Root, Seeds, Stem, Bark, Fruits
- Plant type :- Shrub

- Medicinal use of the plant :- Fever, dry cough, diuretic, febrifuge, bronchitis, ulcer, snakebite, piles, chest problems, gonorrhea
- (11) Acalypha indica
- Family name of the plant :-Euphorbiaceae
- Local name of the plant :- Kupi, Vichhikanta
- Useful part of the plant :- Leaf, Root, Seed, Fruits
- Plant type :- Herb
- Medicinal use of the plant :-Jaundice, piles, malaria, fever, asthma, cough, heart diseases, diabetes, ulcer, wound, constipation, tumnyache, leprosy
- (12) Asparagus racemosus
- Family name of the plant :- Asparagaceae
- Local name of the plant :-Satavri
- > Useful part of the plant :- Root
- Plant type :-Herb
- Medicinal use of the plant :-Women as a tonic, ulcer, liver diseases, diarrhea, dysentery, dyspepsia, indigestion, skin diseases
- (13) Borassus flabellifer
- Family name of the plant :-Arecaceae
- > Local name of the plant :- Taad
- Useful part of the plant :- Root, Bark, Leaf
- ➤ Plant type :- Tree
- Medicinal use of the plant :-Dysentery, Gonorrhea, diuretic, relieve biliousness, anthelmintic, respiratory diseases, heart burn and enlarged spleen and liver disorder
- (14) Butea monosperma
- Family name of the plant :-Fabaceae
- Local name of the plant :-Khakharo, Palash
- Useful part of the plant :- Flower, Leaf, Bark
- Plant type :- Tree
- Medicinal use of the plant :-Diarrhea, dysentery, pimples, cancer, diabetes, fever, Jaundice, liver disorders
- (15) Barleria prionitis
- Family name of the plant :-Acanthaceae
- Local name of the plant :-Pilokantasheriyo, Vajradanti
- > Useful part of the plant :-Whole plant
- Plant type :- Shrub
- Medicinal use of the plant :- Skin diseases, fever, ulcer, cough, urinary infection, jaundice, asthma, glandular swelling, sciatica

Information on medicinal plants has been collectedBhagwat, elders and other residents living in villages in the forest areas of Tapi district during 2020-2021. A lot of information about medicinal plants was found during the field visit. Many medicinal plants are used by the tribal people living in the villages of Tapi district to cure various ailments. Here the calculations and uses of 107 species of plants of 27 family are shown during the visit.

During the visit, the information of trees (36), shrubs (26), Herbs (30), climber (10), and tubers (5) etc. species has been obtained. Which includes dicotyledonous and monocotyledonous family. As many as 15 species of family are recorded it. This includes most of the plants of the family fabaceae and Malvaceae. In addition Rubiaceae, Aeracaceae, Apiaceae, Poaceae, Aemerillidaceae, Asteraceae, Combrataceae, Rutaceae, Coranaceae, Salicaceae, Annonaceae, Moraceae, Plumbaginaceae, Solanaceae, Acantheceae, Oxalidaceae, Euphorbiaceae, Ginatianaceae. Moluginaceae, Asperagaceae, Menispermaceae, Moringaceae, Sapindaceae, Lamiaceae, Apocynaceaealso included are family.

Discussion

Demonstratesthe medicinal uses of all plants. The information presented is recorded by discussions with the tribes as well as frequent visits. Many medicinal plants have been recorded for futuremedicinal uses as well as traditional medicine. All the medicinal plants mentioned here are used for the treatment of pain, skin diarrhea, vomiting, cough, swelling, diseases, irritation, insect bites, stomach diseases, bone diseases, indigestion, tonic as well as head – muscle diseases. In addition trees, wood is also used to make furniture, huts, baskets, match boxes, construction of houses, farm implements, handles, utensils for decoration etc. The present study mentions a plant useful in all kinds of ailments. Various parts of medicinal plants are used as medicine.

Conclusion

Tribal tribes live in the forested villages in Tapi district. Whose main occupation is agriculture. They are based on forests. The various plants found in theforests are used in various ways to make food, fuel, housing materials, fodder, medicines, gum, home remedies as well as farm implements. Tapi district is inhabited by a large number of tribal people in which Gamit, Chaudhary, Vasava castes predominant. Older people living here are uneducated but they know about various medicinal plants found in forests and treat various human diseases. Since all the villages here are far away from the cities, any diseases is diagnosed by the medicinal plants found in the forests here. The use of various herbs has been documented in earlier times.But now days traditional treatment is also done by making medicine by mixing the bark, flower, stem, leaf, root as well as different parts of different plants. Thus many such traditional treatments are performed using technical scientificknowledge. Which nature provides us with all plants. The research presented is done to save people's life.(saha, december 2016)

Acknowledge

The forest officers of Tapi district as well as the locals living in the forest area have helped a lot by providing information about the identification and uses of medicinal plants. As well as a lot of help from Dr.Dineshkumar singh and Dr.Rajeshree patel, JJT university, Rajasthan. Thank you all people and Bhavesh help in my research work.

References

Bhardwaj M al (2020)Survey of et major ethnomedicinal plants of District KinnaurHimachal Pradesh. Indian Journal of Plant Genetic Resources, 33(1), 43-51.

Chowdhury H R et al (2015)Ethnomedicine of Santal tribe living around Susunia hill of Bankura district West Bengal India. Journal of Applied Pharmaceutical Science, 5(02), 127-136.

Groach R et al (2016) An Ethnobotanical Study of District Kurukshetra Haryana. International Journal of Basic and Applied Biology, 3(4), 266-268.

Jadhav R T (2018) Traditional Medicinal Plants Used by Local People at Ahwa Dang District in Gujarat State. Aayushi International Interdisciplinary Research Journal, 05(04), 101-105.

Jain M et al (2018) Survey of Ethnobotanical Medicinal Plants Used by the People of District Guna Madhya Pradesh India. Int. J. Life Sci. Scienti. Res, 04(04), 1880-1888.

Khairnar S S et al (2019) Studies on Ethno botanical plants used by tribal community of Nashik district Maharashtra India. Journal of Medicinal Plants Studies, 07(04), 200-202.

Murthy E N et al (2012) Ethno medicinal plants used by gonds of Adilabad district, Andhra Pradesh India . International Journal of Pharmacy&Llife Science, 03(10), 2034-2043.

Pandey A et al (2014) Ethno-Botanical usage of Plants by the Chakma Community of Tripura, Northeast India. Bulletin of Environmen Pharmacology and Life *Sciences, 3*(6), 11-14.

Patel D C et al (2018) An Ethnobotanical Survey of Medicinal Plants Used by Traditional Healers of kaparada forest Valsad District gujarat india. International Journal of Current Microbiology and Applied Sciences, 7(7), 2034-2043.

Patel R et al (2015) Etheno-medicinal plant of Saputara Hill Dang District Gujarat. International Journal of Scientific Research and Management, 05(09), 6965-6971.

Rathod M C et al (2014) Pharmacognostic Characterization and Phytochemical Screening of Launaea procumbens . International Journal for Pharmaceutical Research Scholars, 3(1), 41-50.

Raza S A et al (2013) Review of beneficial and remedial aspects of Cardiospermum halicacabum L. African Journal of Pharmacy and Pharmacology, 07(48), 3026-3033.

Rothe S P et al (2011) Antimicrobial investigation on Morinda tomentosa Heyne ex Roth. Journal of Ecobiotechnology 2011, 03(09), 8-10.

Saha P et al (december 2016) Traditional uses of Medicinal Plants by Debbarma Tribes in West District Tripura India. Indian Journal of Hill Farming, 29(2), 67-71.

Sandya K et al (2015) Ethnobotanical Investigation of Some Medicinal Plants used by Mandla district madhya Pradesh India. International Journal of Science and Research (IJSR), 4(12), 1694-1696.

Sankaranarayanan S et al (2010) Ethnobotanical study of medicinal plants used by traditional users in Villupuram district of Tamil Nadu India. Journal of Medicinal Plants Research, 4(12), 1089-1101.

Sampy D et al (2019) Ethnomedicinal Diversity of Aromatic Plants in Foot Hill Regions of. International Journal of Theoretical & Applied Sciences, 11(1), 18-39.

Singh J et al (2020) Survey of ethnomedicinal plants used by indigenous people of Nerwa range Chopal forest division Himachal Pradesh India. International Journal of Phytomedicines and Related Industries, 12(3), 381-391.

Vigneswaran M et al (2017) A Compendious Review of Enicostemma littorale Blume Panacea to Several Maladies. International Journal of Scientific & Engineering, 08(06), 1817-1836.