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International Journal for Research in Applied Science & Engineering Technology (IJRASET) Ethno-medicinal Survey of North Kashmir with Special Reference to Bandipora

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Abstract: Bandipora district is one of the 22 districts in Jammu and Kashmir State. The local people of the district have always used medicinal plants for the treatment of various ailments by traditional methods. Utilization of medicinal plants especially by tribal communities is directly linked to their culture and history. There are many villages that are repositories of indigenous knowledge and practices. Documentation of such knowledge is required in view of the day by day disappearing knowledge in the new generations. Therefore, in the present study an attempt has been made to document some locally available plants utilized traditionally by the inhabitants of this district. A total of 30 plant species belonging to 19 different families were reported used traditionally by the inhabitants. Study of this type would help developing a comprehensive database of the plants used in household remedies, strengthening the health care system in the villages and also in conserving the traditional knowledge for prosperity. A large number of people belonging to various tribal groups or races were interviewed during field trips and asked questions regarding the traditional use of plants. The data collected reveals that about 48 plant species belonging to 30 families find use in day to day life including medicinal, aromatic and cultural.

Keywords:- Ethnobotany, Therapeutic, Ayurvedic, Herbalism, Homeopathic.

I. INTRODUCTION

Ethnobotany (from ethnology, study of culture, and botany, study of plants) is the scientific study of the relationships that exist between peoples and plants. Ethnobotanists aim to document, describe and explain complex relationships between cultures and (uses of) plants, focusing primarily on how plants are used, managed and perceived across human societies. This includes use for food, clothing, currency, ritual, medicine, dye, construction, cosmetics and a lot more.^[2] Richard Evans Schulte's, called the "father of Ethnobotany", ^[3] explained the discipline in this way: Ethnobotany simply means [...] investigating plants used by primitive societies in various parts of the world. Intellectual property rights and benefit-sharing arrangements are important issues in Ethnobotany.

A. Roots of Ethnobotany

Plants have been wide used by American Indian healers, such as this Ojibwa man. Though the term "Ethnobotany" was not coined until 1895 by the US botanist John William Harshberger, the history of the field begins long before that. Pythagoreanism, which originated in 500 BC included a refusal to eat beans, perhaps because of the human relationship of the beans through matter. Theophrastus the father of botany wrote of plants and people's usage of them in his works. In A.D 77, the Greek surgeon Pedanius Dioscorides published De Materia Medica, which was a catalog of about 600 plants in the Mediterranean. It also included information on how the plants were used, especially for medicinal purposes. This illustrated herbal publication contained information on how and when each plant was gathered, whether or not it was poisonous, its actual use, and whether or not it was edible (it even provided recipes). For generations, scholars learned from this herbal publication, but did not commonly venture into the field until after the middle Ages due to the Inquisition.

B. Medieval and Renaissance Ethnobotany

During the mediaeval period ethno botanical studies were commonly found connected with monasticism. Notable at this time was Hildegard von Bingen. However most botanical knowledge was kept in gardens such as physic gardens attached to hospitals and religious buildings. It was thought of in practical use terms for culinary and medical purposes and the ethnographic element was not

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studied as a modern anthropologist might approach Ethnobotany today. In 1542 Leonhart Fuchs, a Renaissance botanist and medic, led the way back into field research. His " De Historia Stripium Commentarii Insignes" cataloged 400 plants native to Germany and Austria and had employed artists to directly illustrate the plants he had collected, rather than using illustrations derived from others' work, as had been common until this time.

C. The Age of Reason

John Ray (1686-1704) provided the first definition of "species" in his "Historia Plantarum": a species is a set of individuals who give rise through reproduction to new individuals similar to themselves. In 1753 Carl Linnaeus published "Species Plantarum", which included information on about 5,900 plants. Linnaeus is famous for inventing the binomial method of nomenclature, in which all species get a two-part name (genus, species). But he also carried out in 1832 a research expedition in Scandinavia asking the Sami people about their ethnological usage of plants. The age of enlightenment saw a rise in economic botanical exploration. Alexander von Humboldt collected data from the New World, and James Cook's Voyages brought back collections and information on plants from the South Pacific. At this time major botanical gardens were started, for instance the Royal Botanic Gardens, Kew in 1759. The directors of the gardens sent out gardener- botanist explorers to care for and collect plants to add to their collections. As the 18th century became the 19th Ethnobotany saw expeditions undertaken with more colonial aims rather than trade economics' such as that of Lewis and Clarke which recorded both plants and the peoples encountered use of them. Edward Palmer collected material culture artifacts and botanical specimens from people in the North American West (Great Basin) and Mexico from the 1860s to the 1890s. Through all of this research, the field of " aboriginal botany" was established- the study of all forms of the vegetable world which aboriginal peoples use for food, medicine, textiles, ornaments and more.

D. Ethnobotany Becomes A Modern Science

The first individual to study the emic perspective of the plant world was a German physician working in Sarajevo at eh end of 19th century: Leopold Glueck. His published work on traditional medical uses of plants done by rural people in Bosnia (1896) has to be considered the first modern ethno botanical work. The term "Ethnobotany" was first used by a botanist named John W. Harshnberger in 1895 while he was teaching at the University of Pennsylvania. Other scholars analyzed uses of plants under an indigenous/local perspective in the 20th century: Matilda Coxe Stevenson, Zuni plants (1915); Frank Cushing, Zuni foods (1920); Keewaydinoquay Peschel, Anishinaabe fungi (1998), and the team approach of Wilfred Robbins, John Peabody Harrington, and Barbara Freire-Marreco, Tewa pueblo plants (1916). In the beginning, ethonobotanical specimens and studies were not very reliable and sometimes not helpful. This is because the botanists and the anthropologists did not always collaborate in their work. The botanists focused on identifying species and how the plants were used instead of concentrating upon how plants fit into people's lives. On the other hand, anthropologists were interested in the cultural role of plants and treated other scientific aspects superficially. In the early 20th century. Botanists and anthropologists better collaborated and the collection of reliable, detailed crossdisciplinary data began. Beginning in the 20th century, the field of Ethnobotany experienced a shift from the raw compilation of data to a greater methodological and conceptual reorientation. This is also the beginning of academic Ethnobotany. The so-called "father" of this discipline is Richard Evans Schultes even though he did not actually coin the term "Ethnobotany". Today the field of Ethnobotany requires a variety of skills: botanical training for the identification and preservation of plant specimens; anthropological training to understand the cultural concepts around the perception of plants; linguistic training, at least enough to transcribe local terms and understand native morphology, syntax, and semantics. Mark Plotkin, who studied at Harvard University, the Yale School of Forestry and Trufts University, has contributed a number of books on Ethnobotany. He completed a handbook for the Tirio people of Suriname detailing their medicinal plants; Tales of a Shaman's Apprentice (1994); The Shaman's Apprentice, a children's book with Lynne Cherry (1998); and Medicine Quest: In Search of Nature's Healing Secrets (2000). Plotkin was interviewed in 1998 by South American Explorer magazine, just after the release of Tales of a Shaman's Apprentice and the IMAX movie Amazonia. In the book, he stated that he saw wisdom in both traditional and Western forms of medicine. No medical system has all the answers no shaman that I've worked with has the equivalent of a polio vaccine and no dermatologist that I've been to could cure a fungal infection as effectively (and inexpensively) as some of my Amazonian mentors. It shouldn't be the doctor versus the witch doctor. It should be the best aspects of all medical systems (ayurvedic, herbalism, homeopathic, and so on) combined in a way which makes health care more effective and more affordable for all. A great deal of information about the traditional uses of plants is still intact with tribal peoples.^[7] But the native healers are often reluctant to accurately share their knowledge to outsiders. Schultes actually apprenticed himself to an Amazonian shaman, which involves a long-term commitment and genuine relationship.

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In Wind in the visiting acupuncturists were able to access levels of Mayan medicine that anthropologists could not because they had something to share in exchange. Cherokee medicine priest David Winston describes how his uncle would invent nonsense to satisfy visiting anthropologists. Another scholar, James W. Herrick, who studied under ethnologist William N. Fenton, in his work Iroquois Medical Ethnobotany (1995) with Dean R. Snow (editor), professor of Anthropology at Penn State, explain that understanding herbal medicines in traditional Iroquois culture is rooted in a strong and ancient cosmological system. Their work provides perceptions and conceptions of illness and imbalances which can manifest in physical forms from benign maladies to serious diseases. It also includes a large compilation of Herrick's field work from numerous Iroquois authorities of over 450 names, uses, and preparations of plants for various ailments. Traditional Iroquois practitioners had (and have) a sophisticated perspective on the plant world that contrast strikingly with that of modern medical science. In the contemporary global milieu, the documentation of the biological resources and the associated indigenous knowledge existing within a country has assumed highest priority. Medicinal plants are highly esteemed all over the world as a rich source of therapeutic agents for the prevention of diseases and ailments. From the earliest days of civilization mankind has turned to plants for healing a tradition that has survived the arrival of modern medicine and found new strength at the end of 20th century1. Plants have played a vital role in the treatment of diseases since prehistoric times and are one of the most important areas of research in the world today. India and China are two of the largest countries in Asia which have the richest arrays of registered and relatively well known medicinal plants2. India endowed with a rich wealth of medicinal plants is unique in that these plants are used by all sections of people either directly as folk remedies or in different indigenous systems of medicine or indirectly in the pharmaceutical preparations of modern medicine. The knowledge of medicinal plants has been accumulated in the course of many centauries based on different Indian systems of medicines such as Ayurveda. Unani and Siddha. Rigveda and Atharveda which dates back to 2000-1000 BC and several post Vedic treatise, viz. Charakasamhita (100 AD), Sushruthasamitha (100-800 AD), Dhanwanthari Nighantu (1200 AD), are the important ancient sources of information on medicinal plnts4. Indigenous knowledge simply refers to health practice, knowledge and benliefs incorporating plant based remedies, spiritual therapies, manual techniques and exercise, applied singly or in combination to treat, diagnose and prevent illnesses or maintain well being. It is as old as human civilization. The scientific study of how the people of a particular culture and region make use of indigenous plants is called Ethnobotany (From "ethno"-study of culture and "botany"-study of plants.)-while the ethnobotanist explores how plants are used for food, shelter, medicine, clothing, hunting and religious ceremonies. It is the relationship between a given society and its environment and in particular the plant world6. The term ethnobotany was first coined by an American botanist John William Harshberger in 1895. He defined ethnobotany as the study of plants used by the primitive and aboriginal people. The natural flora and fauna used by the specific group in the form of medicine in curing and preventing different ailments and diseases are known as ethnomedicine. Ethnomedicine refers to the study of traditional medical practice which is concerned with the cultural interpretation of health, diseases and illness and also addresses the health care seeking process and healing practices. The ethnomedical approach proves useful particularly for the study of indigenous therapeutic agents because it allows the researcher to understand treatment patterns according to native explanatory models instead of only through the lens of biomedicine. Medicinal plants are a valuable natural resource and regarded as potentially safe drugs. They have been playing an important role in alleviating human sufferings by contributing herbal medicines in the primary health care systems of rural and remote areas where more than 70% of the population depends on folklore and traditional systems of medicines. The reason for their popularity is due to the high cost and side effects of allopathic medicines. The state of Jammu and Kashmir, cradled in the lap of Himalayas has been recognized as heaven on earth and is also called the "Biomass" state of India. This area which is located in the far north of the Indian Republic has a diverse variety of plant species especially ethno medicinally important plants due to wide variations in its topography and microclimatic conditions. Many studies have been carried out to document the indigenous knowledge information of the medicinal plants from different areas of the region 10-19. Bandipora district is one of the 10 districts of Kashmir in northern India with a geographical area of 398 Sq.km's. The District is located on the northern bank of the Wular Lake the largest fresh water lake in Asia. Bandipora, the District headquarters, is about 55 kms from Srinagar (summer capital) and is accessible by road as well as by river Jehlum. The District lies 340 64'N latitude and 740 96' E longitude and is situated at an average height of 1701 meters above mean sea level (AMSL). Most of area of the District is hilly terrain and is bounded in the west by district Kupwara, in the South-east by district Ganderbal and in the east by District Kargil, Baramulla in the south and on the north side it is bounded by LOC (Line of Control). The climate of the District has its own peculiarities. The seasons are marked by sudden change and the climate can be divided into six seasons of two months each. These includes, spring (16 March to 15 May), Summer (16 May to 15 July), Rainy Season (16 July to 15 September), Autumn (16 September to 15 November), Winter (16 November to 15 January) and Ice Cold (16 January 15 March). All these seasons are locally called as Sont, Retkol, Waharat, Harud,

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Wandh and Shishur respectively. The winters are usually harsh due to heavy snowfall and low temperatures. During the months of December, January, February and March the precipitation occurs mostly in the form of snow, which starts, melting in March, when the percentage of relative humidity is fairly high. Each part of the district experiences snowfall during winter. The district is divided into three tehsil namely Bandipora, Gureiz and Sonawari (Fig. 1.) The district is topographically very rich in forest and ground vegetation including the medicinally important plants. Since, least documented information is available about the traditional medicinal plant knowledge of this floristically rich area 20,21,13, in the present study an attempt has been made to document some locally available plants (herbal medicines) utilized traditionally by the people of Bandipora district for the treatment of various ailments. The term Ethnobotany was coined by J.W. Harshberger, an American botanist in 1895 to describe the studies of plants used by primitive people and aboriginals. He defined Ethnobotany as "the study of the utilitarian relationship between human beings and vegetation in their environment, including medicinal uses". This relationship is not limited to the use of plants for food, clothing, shelter and medicine but also includes their use for religious ceremonies1. Knowledge of plants used by humans is based on thousands of years of experience. By trial and error people learnt how to recognize and use plants. Although the term Ethnobotany was not used until 1895, practical interests in this field go back to the beginning of civilization when people relied more on plants as a wa of Survival. Among the oldest testimonies to plant use were the pollen remains of medicinal plants, about 6000 years old, found in an archaeological dig in Iraq. In 77 AD the Greek surgeon Dioscorides published 'De Materia Medica' which was a catalog of about 600 plants from Mediterranean containing information how the Greeks used plants, especially for medicinal purposes. Dioscorides thus highlighted the economic potential of plants. Over the last century, ethnobotany has evolved into a specific discipline that looks at the people-plant relationship in a multidisciplinary manner, such as ecology, economic botany, pharmacology, public health and social and cultural systems3, 4, 5. India is known for its valuable heritage of herbal medicinal knowledge6, therefore, experiencing a great pressure on its resources due to fast growing population7. The World Health Organization (2003) has estimated that 80% of the population of the developing countries being unable to afford pharmaceutical drugs, rely on traditional medicines, mainly plant based, to sustain their primary health needs. Biodiversity constitutes the resource upon which families, communities, nations and future generations depend. Plants provide us food, building material, medicines, oils, lubricants, rubber, and other latexes, resins, waxes perfumes, dyes and fiber. So far only about 10% of plants have ever been evaluated for their medicinal and agricultural potential and so there is immense pressure on the select group of plants, especially medicinal, which are overexploited by man for his welfare. The present study aims at documenting the tribal use of some of the plants which can prove beneficial for the industry and such plants need to be propagated on large scale to narrow down the ever increasing pressure on these plants. Efforts were made to meet and interact with the elderly people of all these areas for documentation of the hidden knowledge of plants because traditional healers are believed to provide considerable information about the use of many plants or plant parts as medicine.

II. MATERIALS AND METHODS

During the investigation, frequent field trips and plant collections were made from various regions of the study area from March 2015 to November 2015. Methods used to document the traditional knowledge included interviews and discussions with local knowledgeable persons, herbal healers called "Bhoris" and Tribals (Gujjars and Bakerwals). During surveys a total of about 63 informants were consulted who were between the ages of 37-98 years among whom most enjoyed a respectable status in the community. A questionnaire was devised to identify the indigenous knowledge of plant based remedies from local people. Informants were asked questions in Kashmiri language that was understandable in most of the cases. However, Urdu language (official language of J&K) was also used in tribal areas. In order to provide independent information, informants were separately asked to share their traditional knowledge on the utilization of medicinal plants such as the local name, plant part used, ailment(s) in which plant part used and mode of administration. The method of field work followed was after 22-24. With the view to bring an element of accuracy, the information was cross-checked with that of others. From the natural habitats, plants were collected in their flowering and fruiting stages as far as possible. Field photographs of the plants were taken for easy identification and habitat recognition. Collected plants were dried, pressed, preserved (poisoned) and finally mounted on herbarium sheets following standard herbarium techniques. Plant specimens were then identified and accessioned from the KASH Herbarium of Kashmir University, Srinagar (J&K), where one copy of every specimen was deposited for authenticity and future use. Apart from it, for identification, help was also sought from the Department of Botany, Government Degree College Baramulla, and Kashmir. Available floristic literature 25-31 and various publications dealing with the flora of temperate regions were also consulted. Finally one more copy of every specimen was deposited in the herbarium section of the department of Botany, Bhagwant University Ajmer (Raj.), India for

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authenticity and future use.

III. RESULT AND DISCUSSION

Life and diseases go together, where there is a life, diseases are bound to exist. Traditional uses of plant remedies provide potential indicators for biological activities. In the last few decades, there is a resurgence of public interest in medicinal plants and their role in primary health care 32. Alternative medicine using herbal mixtures is becoming more popular as these are believed to be safer and natural. However, there still exists an immense gap between the local traditional knowledge and modern medical sciences. This has resulted in the development of research priorities on plants used in traditional medicine to provide sufficient important information for commercialization. According to WHO, about three quarters of the world population relies upon traditional medicines made from herbs for their health care. At a global level, traditional medicine is now increasingly becoming essential part of the medicinal curriculum and it is anticipated that the modern physicians who are also skilled with some alternate methods of treatment are likely to be more successful physicians in the years to come 33. Thus there is a huge potential of medicinal plants in health care not only in remote areas of developing countries but also in the industrialized world and the acceptance of botanicals in modern medicines is likely to increase in future. During ethnomedicinal survey of Bandipora district, a total of 30 plant species belonging to 19 different families were found to be used as effective remedies by the local people in their day to day life to treat and cure various ailments. The highest number of medicinal plants were recorded in two families viz. Asteraceae (6 species) and Apiaceae (4 species) followed by families Cucurbitaceae, Rosaceae, Nympheaceae (2 species each) while all other families included only one species. Most of the collected plants were herbs 34. While on the basis of the plant parts used, it was observed that the maximum plant species (31%) were found to be used as various parts such as leaves, flowers, seeds, barks, rhizomes, thorns, stolens and fruits etc. followed by whole plants (24%), fruits (17%), seeds (14%), leaves (7% each), bulb (4%) and roots (3%) to cure various ailments (Table 1& Fig. 2) Most of the combinations for remedies were prepared from a single species; however some applications were always prepared with a mixture of plants. Medicines were used in different forms including powder, paste, poultice, decoction, juice and infusion. In our study paste was found to be used more often followed by ecoction, poultice, infusion, powder, juice and latex. For the preparation of indigenous medicines, the people of the area always collected plants that were fresh and best in all respects i.e., disease free 35,36. Medicinal uses of certain locally available plants being used in the treatment of various ailments prevalent in the area are given in table-2 below, mentioning plant's botanical name, local name, family, habit, accession number and their ethno medicinal uses, including plant part used, ailments in which part of the plant used and mode of administration. Results also show that the people of Bandipora district used these plants through different modes of preparation for curing various ailments such as rheumatism, chilblains, urinary disorders, jaundice, indigestion, cough, general body weakness, gaseous bloat, fever, cold, headache, hair fall, warts, skin infections etc.37, 19,13 Herbal medicines were not only used for the treatment of diseases in humans but also in case of domesticated animals. The choice of use for herbs was noticed to be influenced by many factors such as season of the year and knowledge of other species. The choice of use for herbs was noticed to be influenced by many factors such a season of the year and knowledge of other species. Beside, results also reveal that a major proportion (75%) of folk medicinal knowledge comes from people above the age of 55 years, while a small proportion (25%) of it comes from people between the ages of 37 and 5038. Discussions and interviews with both old and young people and Bhoris indicated that the attitude of the younger generation was not towards continuing this traditional medicine system because they realized less opportunity in this tradition for getting immediate benefits mainly in terms of cash in the form ot money. During surveys, ethno medicinal data was gathered by consulting people of different ethnic groups such as Gujjars, Bakerwals, Bhoris and also some knowledgeable persons of the plains. Gujjars are generally permanent settlers in the foot hills of Himalayas. Besides breeding their own livestock, they also take care of the animals of other communities, fulfilling the role of village cowherd. Bakerwals constitute nomadic tribe and high altitude goatherds/shepherds who lead a lonely and tough life in the high altitude meadows of the Himalayas and Pir Panjal ranges39. While interacting with the Bakerwals it was found that they actually belonged to for flung Rajouri and Poonch districts of J&K and visited the study area every year in the months of April and May. Every year, they take their livestock animals. High into the mountains, above the tree line to graze in the lush eadows. They travel by foot and it takes them more than thirty days to reach these meadows. During the summer, they move from one meadow to another and ultimately leave the district in the months of August and September. They are accompanied by their dogs to guard the sheep/goats and their pack animals. Some of them have settled permanently in the foothills of the Himalayas of the district. For example, a few could be easily found near Saderkoot Bala area, living there for years. Both of these ethnic groups (Gujjars and Bakerwals) have their own knowledge of traditional herbal medicine inherited from their fore-fathers. These medicines are well accepted by the local people since generations have experienced their efficacy in alleviating a variety of diseases34. Besides, these ethnic groups have to rely on the traditional system

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as they do not have the modern medicinal facilities available in the vicinity. Traditionally, Bhoris are the practitioners of this indigenous medicine system. Earlier, in the study area, Bhoris were mainly the Kashmiri Pandiths who had vast deep rooted knowledge of prescribing the patients by traditional herbal medicine. This knowledge was descended to them from their forefathers in the form of oral folklores, and is not yet documentd. But due to uprising turmoil that started in 1989 in the valley, they left the district in order to defend themselves and migrated along with this precious knowledge to other parts of the state as well as country. This is the reason that a few abandoned shops that belonged to them were reported during the course of survey in the main market of Bandipora. Till they stayed in the district they shared their precious medicinal knowledge with some Kashmiri Muslims among whom a few at present are carrying forward and practicing this profession. The people who sell them herbal medicine in return get a little money to sustain their basic needs of livelihood. The low cost of herbal medicine and its unlikely income is one of the reasons that youth of Bhoris are now discouraged from carrying forward this profession and that is why only few Bhoris were found in the study area. On the other hand, the cost of modern medicine is very higher than the cost of indigenous medicine so there is public demand for service40. The availability of medicinal plants is not only drastically decreasing due to various reasons such as increased marketing pressure, lack of job opportunities, development works, increased population of the area, over-grazing by animals and indiscriminate harvesting by unskilled gatherers but also the existing traditional medicinal knowledge of these plants is depleting at an alarming rate. Therefore, it is high time that a feasible conservation strategy and action plan should be formulated and implemented effectively in order to save this high value dwindling resource. For sustainable and long term conservation of these plant species it would be better to involve the local people through creating awareness among them as they are the best judges of the area.

Table-2 Some locally available medicinal plants of Bandipora District (J&K) and their uses to cure. Various ailments based on information gathered by using questionnaire, discussions and field trips.

Botanical Name/	Habit/	Plant		
Local	Accession	Part	Ailments	Mode of Action
Name/Family	Number	Used		
Adiantum	perennial	Whole	Cough, Jaundice,	Black stalks are used as tooth stick to clean teeth. Dried fronds
venustum D Don	evergreen	Plant	stomach ailments,	are crushed to obatain powder. Powder is added to a glass of
Kakbai	fern/39283		headache, fever	water and kept as such overnight. The extract is given next
(Pteridaceae)			body muscular	day early in the morning for the treatment of cough, jaundice
			pains and hair fall	and stomach ailments. The herb forms and important
				ingredient of a combination of several different herbs such as
				whole plants of Cotula anthemoides. Leaves of Ocimum
				basilicum and leaves and flowers of prunella vulgaris. This
				combination, locally called "Lossa Ghasa" is thoroughly
				boiled in water to prepare hot water extract. Ladies, after their
				deliveries are advised to have bath with this hot water extract
				(after dilution with more water) to cure headache, fever, body
				muscular pains and hair fall.
Aesculus indica	Perennial	Fruits	Chiblain, joint	Fruits after crushing are boiled in water to prepare hot water
(wall. Ex Camb.)	tree/38865		pains, boils, skin	extract which is used to be feet against chilblain, a painful
Hook (Haandoon)			rashes, eruptions,	itching swelling caused by exposure to cold which is locally
(Hippocastanaceae			headache burns,	called "Shush". Fruit powder is mixed with mustard oil to
)			wounds and rat	make paste. The resultant paste is used to cure joint pains,
			killer.	boils, skin rashes, eruptions and headache by its external
				massage. Sometimes dried fruits are burnt to get ash which is
				mixed with oil and honey to make paste. Paste is then applied
				on burns and wounds to stimulate their healing. Dried fruit
				pieces are mixed with the kernels of Juglans regia and mustard
				oil. The resultant mixture serves as best home remedy for
				killing rats. Crushed fruits are mixed with crushed onion bulbs
				and common salt to make small soft balls which are given to
				cattle during severe cold to keep them healthy.

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Allium cepa Linn	Annual	Bulb	Loss of appetite,	Small thin slices of bulb are mixed with local mint, common
Gundh (Liliaceae)	herb/38877		acidity, impotency,	salt and cured and given against loss of appetite and stomach
			cold, anorexia,	acidity. Slices are also placed in water for overnight. The same
			forthy bloat and	water is taken next day early in the morning on empty
			flow of tears.	stomach to strengthen male potency. A mixture of crushed
				bulbs and common salt is made into balls. These balls are
				widely used as a traditional household remedy for cattle
				against cold anorexia and in cows to stimulate the estrus
				cycle halls are also given to horses to cure the frothy bloat
				which is caused due to the grazing of Bataklunt (Trifolium
				which is caused due to the grazing of batakium (informum
				repens) A small piece of build is placed on top of the ear to
A	A	XX 71 1 .	M 1 1	Children for the former by the cutting official.
Amaranthus	Annual	whole	Measles and	Children suffering from measles are advised to inhale smell
retroflexus Linn	herb/38904	Plant	dandruff.	that emanates from roasting dried seeds. Seeds once roasted
Ganhaar				are mixed with fur (local sugar) and made into small balls.
(Amaranthaceae)				Balls are given to the same children to treat measles. Plant is
				burnt to get ash which is locally called "Suzz". It is gently
				spplied on scalp and then washed with water to clean the hair
				and check dandruff.
Anagallis arvensis	Annual	Whole	Skin itches	Fresh herb is crushed to obtain juice which is applied on hands
Linn. Chari-saban	herb/38906	Plant		and arms and then washed with water to cure skin itches with
(Primulaceae)				dry bran like eruptions.
Brassica oleraces	Biennial	Leaves	Corns and	Leaves are taken as vegetable. Fresh leaf is gently placed in
var. haka Linn.	herb/38852		constipation	warm mustard oil with haldi and salt till it becomes soft. It is
Hakh			1	then tightly tied with muslin cloth on painful comes of toes
(Brassicaceae)				and fingers which helps them to ripe, burst and evacuate the
()				pus and hence to alleviate the pain. The petiole of the leaf
				after peeling off the rind is placed in the rectum of the new
				born haby as a best home remedy to cure constinution
Bunium Dersigum	Derennial	Fruite	Digestive disorders	Driad fruits are used as spice in case of digestive disorders
(Bioss) Fedtsch	herb/38872	Tuits	foul breath joint	Fruits are chawed to remove foul breath Roasted fruits are
(BIOSS) Feutsch	ner0/38872		noin lumbago and	from the constant of the second of the second second interview which is mixed with barana to make
Kala Zeela			pani, iunibago and	ground into powder which is mixed with banana to make
(Aplaceae)			weak memory	paste. Paste is given orally for the treatment of joint pain,
<u> </u>		-	D 11 1 11 1	lumbago and as brain tonic to enhance memory.
Calendulla	Annual	Leaves	Boils, burns, eyelid	Leave and flowers are crushed and paste is made by mixing
officinalis Linn	herb/38884	and	abscesses and	with cow butter. Paste is then applied on boils. Burns and
Hamesh Bahar		flowers	pneumonia	abscesses of eye lids to give relief from pain. Poultice is made
(Asteraceae)				by crushing of fresh leaves and flowers which is slightly
				warmed and then spread on a cloth and tied on chest to cure
				pneumonia in children.
Centaurea iberica	Perennial	Leaves	Burns, skin rashes,	Thorns are burnt to get ash which is mixed with cow butter to
Trevir. Ex Spreng	herb/38830	and	eye vision and	make paste. Paste is applied on burns and skiing rashes for
Krech		thorns	defective lactation	their treatment. Fresh leaves after crushing are mixed with egg
(Asteraceae)				and then cooked to prepare omelets. Latter is given to improve
, , ,				the eye vision. It is also given to enhance lactation in females.
Cichorium intybus	Perennial	Leaves	Body weakness.	Leaves are cooked and given to fresh mothers to cure body
Linn Kasni Wari	her/38913		loosening of joints	weakness loosening of joints, body muscular pains, frequent
Hundh			body muscular	bleeding and as appetizer and liver tonic
(Asteraceae)			nains frequent	precums and as appender and river tonic.
(1 Siciaciae)			bleeding loss of	
			opporting 1055 01	
			appende and liver	
1		1	problems	

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Conyza canadensis	Annual	Aerial	Indigestion,	Aerial portion of the plant is crushed and made into small soft
(Linn) cronquist	herb/38834	portion	dysentery, stomach	balls which are given to cattle for immediate relief from
Shallut			gases, internal,	indigestion and dysentery. Fresh leaves are eaten to cause
(Asteraceae)			injuries, fever and	cooling effect. Cure stomach gases and internal injuries. Leaf
			cough	decoction with sugar is given to cure fever and cough.
Coriandrum	Annual	Seeds	Fever, palpitation	Dried seeds are put in cold water at least for one hour. Cold
sativum Linn	herb/38833		of heart, jaundice,	sponging is done by dipping a clean cotton cloth in this cold
Daniwaal			drying of mouth	water and applying it to the chesh, head and feet to relieve
(Apiaceae)			and headche	fever and palpitation of heart. Seed decoction is given to cure
				jandice, drying of mouth and headache.
Cucumis sativus	Annual	Fruits	Headache, fever,	Fruits slices are consumed as salad. Proximal end of the fruit
Linn Laer	climbering	and	stomach heatup,	is sliced. The resultant slice is rubbed on rest of the fruit for
(Cucurbitaceae)	herb/38903	seeds	kidney stones and	about 2-3 minutes so that white foam comes out of it. The
			burning sensation	slice along with this foam is kept as poultice on forehead to
			of urine	cause cooling effect and to relieve headache and fever. Dried
				seeds along with the dried seeds of lagenaria siceraria and
				Cucumis melo are put in a glass of cold water as such for
				overnight. Thus a composite infusion is made which is given
				to cure stomach heatup, kidney stones and burning sensation
				of urine.
Cydonia oblonga	Perennial	Seeds.	Constinution, birth	Seed infusion is given to pregnant women against constinution
Mill Bumchuont	tree/38886	fruits and	problems, jaundice.	and to loosen body parts so as to facilitate the normal dilivery.
(Rosaceae)		flowers	cough cold	The seeds also form an important ingredient of a combination
(Hosteede)		110 015	chronic	of different herbs such as seeds of Cucumis sativa Malva
			constinution fever	neglecta Foeniculum vulgare fruits of Zizphus jujuba leaves
			dysentery blood	and flowers of Arnebia benthamii and fronds of Adjantum
			nurifier astham	capillus-veneris. This combination is locally called as
			chest problems	"Sharbeth" The composite deportion of "Sherbeth" is given to
			chest problems,	sharbeth. The composite decoeffon of sherbeth is given to
			weakness and body	a good blood purifier Eruit slices are sup dried stored for
			muscular pains	a good blood purifier. Fruit sites are suit difed, stored for
			musculai pams.	dysantary. Ding fruits after being gooted automally with a thin
				dysentery. Ripe fruits after being coated externally with a thin
				ayer of mud are roasted and then eaten as a best nome remedy
				against astrima, cold, chest problems and general body
				weakness, Sundried nowers and sugar after mixing are
				crushed. The same is then kept in air tight jar for about 10-15
				days for termentation. This termented mixture is locally called
				"Khambir Bihi". It is given to cure cough, cold, asthma and
	D' ' 1	D.		body muscular pains.
Daucus Carota	Biennial	Roots	Dysuria, digestive	Roots at juvenile stage are considered highly energetic and are
Linn Moharmunj	herb/39277		disorders and	consumed raw by the local livestock grazers while travelling
Ghasa (Apiaceae)			tatigue.	long distances by foot to give relief from painful and difficult
				urination digestive disorders and fatigue.
Euphorbia	Annual	Aerial	skin eruptions,	White coloured latex obtained from the herb is used to cure
helioscopia Linn	herb/38886	portion	warts, arthritic pain,	skin eruptions and warts by its external application. Poultice
Gur-sochal			indigestion, worms,	made by crushing of aerial portion of the plant is applied on
(Euphorbiaceae)			and constipation	arthritic joints to stimulate the formation of blisters. The
				blisters lateron burst releasing the fluid which in turn
				alleviates the arthritic pain. Leaf decoction is taken against
				indigestion, worms and constipation

			O v	
Euryale ferox	Annual	Seeds	Stomach problem,	Dried seeds are considered highly energetic and are eaten
Salisb Juwar/Kena	herb/38854		whooping cough,	against stomach problems, whooping cough, and semen
bub			semen deficiency	deficiency and to increase libido. Kashmiri Pandiths
(Nymphaeaceae)			and weak libido	considered the seeds as 'sacred' because they used to break
				their fast by the eating the bread prepared from its flour.
Foeniculum	Perennial	Whole	Dyspepsia, acidity,	Seeds are eaten to cure dyspepsia, acidity, and constipation. In
vulgare Mill	herb/38863	Plant	constipation,	case of abdominal pain and constipation of a small baby, seeds
Bodiyaan			abdominal pain,	are chewed to make paste which is applied respectively on
(Apiaceae)			Jaundice, cough,	abdomen and buttoks. Dried seeds form an important
			cold, chronic	ingredient of "Sharbeth". The composite decoction of
			constipation, fever.	"Sherbeth" is given to cure jaundice, cough cold, chronic
			blood purifier and	constipation, fever and also acts as a good blood purifier.
			ioint pains.	Seeds are alos eaten to abstain from smoking. Whole plant is
			J F	burnt to get ash which is mixed with oil to make paste. Paste is
				then applied on painfull joints
Funaria indica	Annual	Whole	Defective eve	Dried plant is grinded and powder is made which is
Ihausskn) Pugsley	herb/38845	Plant	vision palpitation	administered orally with water against defective every vision
Shahtar	1010/30043	1 Iuni	of heart breathing	nalnitation of heart breathing problems skin diseases and as
(Fumariaceae)			problems skin	good blood purifier. Whole plant decotion is taken to
(Fullariaceae)			diseases blood	every sething defective uning with pus skin respective
			nurifier esthme	dropsy monstruel irregularities male impotency and general
			defective uninction	hody weatmess
				oouy weakness.
			with pus, skin	
			rashes, dropsy,	
			menstrual	
			irregularities, male	
			impotency and	
			general body	
			weakness.	
Galinsoga	Annual	Whole	Joint pains	Fresh plants are crushed to make poultice which is tied on
parviflora Cav.	herb.38890	Plant		painfull joints to alleviate pain.
Marchawagan				
Ghasa				
(Asteraceae)				
Helianthus annuus	Annual	Seeds	Whooping cough	Seeds are chewed and eaten to cure whooping cough. Seed oil
Linn Gulaftab	herb/38905		and joint pains.	is gently warmed and applied on painful joints.
(Asteraceae)				
Juglans regia Linn.	Perennial	Bark,	Tooth infection and	Bark of the root is used as an antiseptic tooth brush locally
Duon	tree/38866	fruits and	toothpaste, tongue	called "Dandasa". It is used to clean the teeth and hence to
Juglandaceae		leaves	cleaning, mouth	protect them from infection and ache. The bark is also chewed
			ulcers, dry cough,	to clean the tongue, heal the mouth ulcers and by ladies to
			hypertension, joint	decorate their lips. Ripe fruit kernels are eaten to cure dry
			pains, hair fall,	cough and hypertension. Oil obtained by grinding of fruit
			weak milk	kernels is considered a best home remedy for joint pains and
			production in cows,	hair falls by its external massages. The oil cakes are fed to
			chilblain, insect	cows to enhance milk, production. Dried leaves along with the
			repellent	dried seeds of Datura stramonium are vigorously boiled in
			-	water to prepare hot water extract which is used to wash the
				feet during severe cold in winter to cure Chiliblain. Fresh
				green leaves are used as insect repellent.

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Fig- 1,2,3- Aconitum vidaceum



Fig- 4- Aconitum heterophylum.





Fig-6- Ajuga parviflora



Fig-7-Arnebia benthamii.

Fig-8-Bergenia ciliata.

Fig-9- Cotula anthemoides



Fig-10- Hyoscyamus niger.



Fig-11- Inula racemosa.

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CONCLUSION

Keeping in view the high cost and side effects of allopathic medicine, the use of medicinal plants against different ailments plays a significant role in meeting the primary health care needs of the rural communities of Bandipora district. The district is fairly rich not only in medicinal plant species but has also deeply rooted traditional knowledge of these medicinal plants among the people. An immensely valuable database could be the outcome of this knowledge which in turn could provide baseline information for the commercial exploitation of bio-resources. Besides, the information could prove a fruitful source for pharmacologists, phytochemists, botanists and to those interested in the development of alternative therapies. Utilization of indigenous drug resources eill increase the local industry on one hand and minimize the expenditure incurred on the purchase of foreign drugs on the other. In view of the present study of medicinal plants, research and conservation efforts should be focused on these resources of the area so that in future the coming generation could benefit from these precious plants that area real gift to mankind. Besides, an understanding of the market potential of medicinal plants could provide rural farmers with the incentive for the cultivation of high. Unani, ayurvedic &Homeopathic Medicine are based on these herbs and since age are used by people of south Asian countries. No after affect, cheap & give a slow but permanent cure all possible aliments.

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