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ROLE OF ETHNIC AND INDIGENOUS PEOPLE OF NORTH WESTERN HIMALAYAN REGION OF HIMACHAL PRADESH IN THE CONSERVATION OF PHYTO- DIVERSITY THROUGH RELIGIOUS AND MAGICO-RELIGIOUS BELIEFS.

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ABSTRACT

Plants has special role in religious, cultural and social ceremonies of every communities of the nation. The use of plants in different religious practices is possibly the earliest and most prevalent form of religion. Traditional knowledge related to various religious and supernatural beliefs and folklores help the rural and indigenous communities in the protection of local plants from destruction. The taboos, festivals, rituals rites and other cultural aspects play important role in the preservation and protection of surrounding phytodiversity on the basis of religious ground. The plants are also conserved by these ethnic and indigenous people that serve as a source of wild edible food, and as a source of agricultural and horticultural plants. Some of the indigenous plant species are conserved by the ethnic and indigenous people through agricultural cultivars improvement programme which increase productivity and incorporates the traits for providing the resistance against different pests and diseases. But as *insitu* mode of conservation, these plants are mostly conserved by tribal or indigenous people of study area due to their sacredness and being worshipped by tribal people or indigenous people as home of God and Goddess and for magico-religious beliefs.

Keywords: Conservation, Indigenous People, Magico-religious, Traditional knowledge, Phyto-diversity, Himachal Pradesh

INTRODUCTION

The plants are used in many ways including worshipping God's and goddesses for the protection and betterment of human life. Worship is performed with traditional rituals for human well-being in every human society. Many tribal communities preserve this tradition through folklore and worship their local dieties right from occasion of birth to mourning death. Many parts of plants like bark, twigs, flowers, fruits and seeds are offered to appease the gods. There are many plants such as *Aegle marmelos*, *Ficus religiosa*, *Ficus benghalensis* and *Thevetia nerifolia* etc are grown in temples courtyards and near the different religious institution are considered sacred plants by different tribal and ethnic communities of country. They conserve the plants by all means which are used in different ritual rites and religious ceremonies (Sharma and Pegu, 2011). The state Himachal Pradesh lies in the lap of North-Western Himalaya.

.Himachal Pradesh is not merely a physical land mass but a vibrant and spiritually charged mass of land known as "Dev Bhoomi" – land of Gods .It is the land where the components of nature is worshiped- the plants, animals, planets and five elements.(Choyal and Kumar 2015) with an altitude varies from 350-6,975m with total geographical area of 55,673sq.km.It is known for its natural beauty, traditions, customs and cultures.(Kharwal and Rawat 2009).

Himachal is a great repository of herbal plants and act as a good hot spot in Northwestern Himalayan mountain ranges for growth of plants of ethnobotical importance. The tribal of Himachal Pradesh mainly constitute Gaddis and Gujjar communities who are the inhabitant of hills and rural and remote areas of study region. The plants of Himachal Pradesh occupies an important place in mythology due their sacredness and their role in various religious rites and ceremonies. The indigenous or tribal people of Himachal Pradesh plays important role in the conservation of their area due to their faith on the traditional knowledge about the use of local plants for various purposes such as food, fibre, shelter, religious and magic belief, fodder and mainly for the treatment of various diseases or incase of primary health care. So they conserve these plants for their future benefits. They conserve plants in their natural habitat or as "Sacred groove" because these plants are being worshipped by indigenous people or tribal people as a home of God and Goddess. The tribal and indigenous communities of Himachal Pradesh having good faith on spiritual powers of local dieties, magico-religious beliefs and taboos. They believed that some plants of the forests are the abode of local dietiesi.e local dieties and Gods reside on trees in the forest. They thought that if they do not show any regards or respects to these plants ,then god will cause harm to them. So they protect them from cutting and from exploitation. Therefore, they preserve the plants which they consider sacred for social cultural and religious purposes. Their taboos, festival rituals and other cultural ascepts are closely related with conservation of surrounding phytodiversity on the basis of religious ground. Thus this paper emphasize the role of ethnic and indigenous/tribal people of Himchal Pradesh in the conservation of phytodiversity through religious and magico-religious beliefs. The studies regarding to the religious and magicoreligious importance as mode of insitu conservation. Were carried out by several workers as -Sen Sharma (1989), Sood et.al (2005), Kapoor and Rangra (2008), Sharma and Pegu (2011), Choyal

and Kumar (2015) and Sharma and Seth (2020). All these workers were reported about the religious and magico-religious beliefs related to conservation of local biodiversity by rural and indigenous communities.

MATERIALS AND METHODS

The completion of study was made possible by doing field survey of hilly tribal and rural area of Himachal Pradesh. Study area present at altitudinal raging from 1800 to 6401 m. above mean sea level. About 70% of the total alpine area of the North-West Himalayas is present in Himachal Pradesh. This region has diversity in its soil, physiographic condition, land use pattern and cropping system. The medicinal plants were collected from time to time during flowering and fruiting season. The plants collected from study area were consisted of almost all parts so that they can be easily identified and to provide maximum information a herbarium of plants was also prepared.

The information related to collected plants was gathered by discussing with indigenous and tribal people,local Purohit, Gurus, Tantarik and Saints inhabiting the study area who play an important role in the conservation of local plants with their natural habitat due to their religious and magico -religious usefulness. Study material from various reference books and research papers were also referred. The whole available information is then written stated in form of report.

OBSERVATION AND RESULTS

The following observations have been recorded on the role tribal and indigenous people in the conservation of phyto-diversity of study areathrough religious and magico religious beliefs.

Plants which are conserved in their natural habitat which are considered by tribal as religious plants and magic belief associated with them.

Many of plant of Himachal Pradesh are conserved in their natural habitat by tribal people due their religious sImportance and they considered then as home of God and Godness. The indigenous people or tribal people worship flowers and tresss as they believe that God and Godness reside in them. Some plants with their parts and products plays an significant role in religious ceremonies. Some plants are use by some tantrik and other superstitious people for magic work and to get rid from bad evils eg. Some people of study area hang fruit of Lal mirch (Capsicum annum) and Nimbu (Citrus medica) on the door to get rid from the evil effect of bad evils. Some people believed that the use seeds Sarson (Brassica compestris) and aLalmirch (Capsicum annum) and deshi ghee which are brunt on the fire as dhooni to get rid from magic ,bad spirit and bad eye. On the day of Awansha, the twigs of Tirmir (Zanthoxylum armatum) are hang on the door to get rid from evil sprits.

Religious importance of local plants which forms the basis of conservation for rural communities as *insitu* conservation are

1 Daturainnoxia Mill.(Solanaceae)-Datura

Religious uses-Flowersand fruits are offered to appease Lord Shiva.

2 Emblica officinalis Gaertn.(Euphorbiaceae)-Amla

Religious uses-Twigs of plant considered sacred and worshipped on "Panchbhikhma" (Religious festival of Hindu). Small pieces of it's wood along with Sandal wood (Santalum album) which is offered by one and all the last rite funeral as taken of departed soul.

3 Euphorbia royleana Boiss. (Euphorbiaceae)-Chuin, Dandathor

Religious uses- Phylloclade is planted during the boys birth ceremony.

4 Ficus benghalensis Linn. (Moraceae)-Bargad, Badyaa

Religious uses- This tree is considered sacred as symbolic of "Trinity" Brahma, Vishnu and Mahesh. The roots of this plant believed to be abode of Lord Brahma, trunk of lord Vishnu and branches of lord Shankar. This plant is worshipped during all religious ceremonies.

This tree is also considered as wish fulfilling tree(KalpaVriksha) in Hindu scriptures. This tree is also worshipped by ladies as a symbol of "Sati Savitri" who brought her husband to life by worship of this tree. The wood is used for performing "Hawans" during religious ceremonies.

5 Ficus glomerata Roxb. (Moraceae) - Umaraya

Religious uses-Plant is considered sacred and worshipped. Stem wood is used for performing "Hawans" during religiousceremonies.

6 Ficus religiosa Linn. (Moraceae)-Peepal

Religious uses-Whole plant is considered sacred and worshipped in all religious ceremonies. Wood of this plant is used in performing "Hawan".

Leaves of this plant are used in worship of Rishies and this tree is considered as abode of Goddess 'Bhavani' and this tree is as tree of fertility. This tree is worshipped by followers of Lord "Budha "because it is believed that Gautam Buddha get enlightenment under this tree.

7 Glorisasuperba L.(Liliaceae)-Nagrugdi

Religious use-Flowers of this plant are offered to appease Lord Ganesha.

8 Hordeumvulgare (Poaceae)-Jaou

Religious uses-Seeds are used as one the important constituent of materials used in "Hawan" during religious ceremonies. It's seedlings are kept on the occasion of "Navratri" festivals worship for prosperity and happiness.

9 Lawsonia inermis Linn.(Lythraceae) - Mehandi

Religious uses-Paste of leaves is applied on he hands and young bride and bridegroom at the time of marriage ceremonies.

10 Mirabilis jalapa Linn.(Nyctaginaceae)-Shivkali

Religious uses- Flowers are used as offering to deities specially to appease Lord Shiva.

11Musa paradisiaca L.(Musaceae)-Kela

Religious uses-Plant is considered sacred and it's leaves are used in all religious ceremonies like marriage, "Grihparvesh" (House warming ceremony) and death rituals. Fruit is offered to appease Lord "Satyanarayana".

120cimum sanctum Linn.(Lamiceae)-Tulsi

Religious uses-The plant considered sacred and worshipped during "Panch-bhikam festival". Leaves of this plant are used in Mangalgauri, Ganesh and Navratripuja. The dead body is placed before this plant prior to its last rites.

130ryza sativa L. (Poaceae)-Dhan, Chawal

Religious uses-Whole plant with seeds are worshipped during festival "Shairya" for happiness and prosperity. Crushed seed flour is used for making local dish "Chiladu or Ankilan (Chalerian) which are eaten with milk and sugar on the occasion of religious ceremonies and festival such as Diwali ,Lohri and during marriage ceremonies. During marriage ceremony , this dish is considered sacred and is eaten by bridegroom as a "Mahouk" before going to bride house.

Fleshy part (Fruit) of this plant known as "Mooli" is worshipped on the "Hoi" festivals for long life of children.(Raphanus sativus Linn.)

14Saccharumofficinarum L (.Poaceae)-Gana

Religious uses- Stem of this plant is used in preparations of "Gur" "Shakkar" and "Sugar" which is used in the preparation of "Prashadam" in worshipping of deities. "Gur prepared or cholle (Cicer arietinum), when roasted is used as "Bhog" to appease Goddess "Santoshi Mata". Whole plant is considered sacred and worshipped on "Hoi" (a holy day when mother do fast for good health and life of their son).

Table 1:- A list of plants worshiped and conserved by tribal/indigenous communities on the account of Magico-religious belief.

Sr. No.	Scientific Name	Family	Local name	Associated diety	Magico – religious belief.
01.	Aegle marmelos(L.) Corr.	Rutaceae	Bil, Bilpatri	Lord Shiva	The tree is said to possess thousand of powers. It is commonly believed that a person who wear amulet of Bil plant no misfortune comes to him or family and he become skilled in speech.
02.	Betula utilisD.Don	Betulaceae	BojPatra	Lord Shiva	All ancient and spiritual books like "Ramayana", "Mahabharta" etc. were written on it's bark in india. Bark of "BojPatra" is used by Hindu's "Tantriks" for the preparation of talishman and amulets.
03.	Butea monosperma (Lamk.) Taub.	Fabaceae	Dhak, Palah	"Budha", Saraswati	Budhist also considered the tree sacred based on the legend that Queen "Mahamaya"seized a branch of "Plah" tree at the time birth of her son "GauthamBuddha".The people donot allow the pregnant ladies to go near the tree believing that evil sprit resides on the tree.
04.	Ficus benghalensis	Moraceae	Bargadh, Barh	Lord Brahma ,LordVishnu and Lord Shiva	This tree is sacred which is considered the

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					of Shankar .The Hindu scripture describing this plant as wish fulfilling tree i.e called "KalpaVriksha".Tribal of Himachal Pradesh donot plant this tree near the house because they believed that this plant is abode of evil sprit and which cause qurells in families.
05.	Ficus religiosa L.	Moraceae	Peepal	Goddess Bhavani, Buddha,and Trinity	Hind regarded this tree the abode of Goddess Bhavani and the tree is also regarded as tree of fertility. Leaves are used in Ganesh Puja and Rishipuja. It is believed that as the leaves of this tree dry up the patient get relief and ultimately cured . Tribal people of Himachal Pradesh believed that evill sprit resides of this tree and donot permit their ladies and children to visit to it during night
06.	Juniperusma cropoda Boiss.	Cupressaceae	Shur, Shugpa	Lord Buddha	This old tree is treated sacred in Lahul valley and commonly planted near "Gompas". A pinch of pulverized leaves and some seeds of mustered are brunt to produce smoke by "Lamas" in chanting mantras to drive away the evill sprit from the body
07.	Mangifera indica L.	Anacardiaceae	Amb	God-Prajapati, Buddha,Goddess es- Kali,Sheetla, Ambika	This tree is considered sacred,Lord Buddha used to rest under this tree and Wood of this tree called "Samdhas" which are used incase Hawan and other religious ceremonies. It is believed that if a person see the first inflorescence and inhails the smeared inflorescence for three times will not be bitten by snakes for that particular year.
08.	Phyllanthus embilica L.	Euphorbiaceae /Phyllanthacea e	Ambla	Lord Vishnu, Ganesha	This plant is considered to be incarnation of Lord Vishnu. Its leaves are considered for appearing "Ganesha". It is believed that a garland of its twigs tied around the neck of cattle to cure leprosy
09.	Santalum album L.	Santalaceae	Chandan	Shiva	This tree is sacred tree .Wood of this tree is used in the funeral pyreand it is believed that the sole of dead person find place in heaven if at least a piece of this wood is used in funeral pyre .Rubbing of piece of its wood on the stone with water is used for "Tilak" on forehead. It is believed that "Tilak" of the wood this tree on the forehead keeps the mind fresh and also protect from the bad evil eyes.
10.	Zizyphus mauritiana Lam.	Rhamnaceae	Ber	Lord Shiva Ganesha,Ghatta Mahalakshmi	Leaves of this plants are used in worship of Mangalgauri and Ghatta Mahalakshmi puja. It is believed that the branch of this plant is placed at the burial place so that evil spirit of deceased person would not cause harm to close relatives.

TABLE 2: A list of the plants associated with dieties

Dieties	Associated Plants		
LordGanesha	Cynodon dactylon , Dendrocalamus strictus , Ficus religiosa , Glorisa superba , Phyllanthus emblica		
Lord Shiva	Aegle marmelos,Bauhinia tomentosa,Calotropis gigantea,Cannabis sativus,Cassia fistula, Cynodon dactylon,Datura fastuosa,Nerium indicum,Phyllanthus emblica,Santalum album		
Lord Vishnu	Bauhinia varigata,Curcuma longa, Ficus bengalensis,		
	Ficus religiosa, Jasminum spMusa paradisiaca, Seasumin orientale		
Lord Indra	Hordeum vulgare		
Lord Bharma	Ficus bengalensis , Ficus religiosa		
Lord Shani Dev	Ficus religiosa , Seasum orientale		
Lord Kamdeva	Mangiferaindica , Saccharum o fficinarum , Saraca indica		
Goddess Kali Durga	Hibiscus rosa-sinensis , Mangifera indica , Seasum orientale		
Goddess Laxami	Musa paradisiaca ,Nyctanthes arbortristis		

Goddess Sarswati	Butea monosperma
Goddess Durga	Curcuma longa , Cynodon dactylon , Musa paradisiacal
Goddess Gouri	Cynodon dactylon
Lord Buddha	Butea monosperma , Saraca indica
Goddess Sheetala	Mangifera indica
Goddess Bhawani	Ficus bengalensis
Lord Brihsphati	M <mark>usa parad</mark> isiac <mark>al</mark>

Table 3: A list of plants associated with worshiping of Navgrahas

Mars – Mangal Graha	Acacia catech <mark>u</mark>
Venus-ShukraGraha	Ficus glome <mark>rata</mark>
Saturn-Shani Dev Graha	Aegle marmelos
Sun-Surya Graha	Calotropis gig <mark>antean</mark>
Moon Chandra Graha	Butea monosp <mark>erma</mark>
Mercury- Buddha Graha	Acryanthes aspera
Jupiter- Brihsphati	Ficus religiosa
KetuGraha	Desmodium bipinnata
RahuGraha	Cynodon dactylon

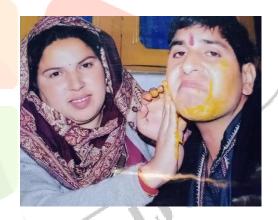
Table 4: A list of plants which are conserved by indigenous or tribal people of H.P as sacred groove as *insitu* conservation of biodiversity

The sacred groove are the natural forests which are located in hilly region of north-west Himalaya of H.P. where the interference of all the kinds of human activities are prohibited in the sacredgroove. Some forest patches of Himachal Pradesh known as sacred groove and commonly called as Dev Ban. The plants of these forest patches are protected from cutting and exploitation by rural and indigenous communities due to their association with dieties and importance in religious rituals, festivals, cultural customs and ceremonies.

Some plants growing in the sacred grooves of H.P are in the table:

S.No.	Name of plant	Families	Local name	Uses
01	Aegle marmelos(L.)Corr.	Rutaceae	Bill patri	Medicinal, Religious
02	Butea monosperma (Lamk)Taub.	Fabaceae	Palah	Religious ,Magico -religious.
03	Beta utilisD.Don	Betulaceae	Bhojpatri	Religious
04	Ficus benghalensis L.	Moraceae	Bargadh	Magico-religious,medicinal,fodder
05	Ficus religiosa L.	Moraceae	Peepal	Religious
06	Mangifera indica	Anacardiceae	Amb	Edible, religious
07	Phyllanthus emblica L.	Euphorbiaceae	Ambla	Medicinal,religious,edible
08	Santalum album L.	Santalaceae	Chandan	Medicianal, religious
09	Sesamum orientale L.	Pedaliaceae	Til	Edible,medicinal,religious
10	Zizyphus maurtiana Lam.	Rhamnaceae	Ber	Edible, religious





















Photographs: The religious and magico-religious beliefs associated with some plants of study area in various ritual rites custom's, taboos, magic work and religious ceremonies

CONCLUSION:

Conservation of phytodiversity is an important step which is taken by the tribal people or indigenous of H.P. for the benefit of future generation to meet their daily life requirements. These basic requirements which is based on plants or their products such as for magico-religious, medicinal, edible, fuel, fodder and so many purposes . Conservation by phytodiversity through religious and Magico -religious mode is safest and spritual method of conservation within the natural habitat .Mostly the in-situ type conservation is followed by tribal or indigenous people of study by conserving the plants in their natural habitat .But now due to advancement or urbanization in tribal areas, the ex-situ conservation of plant species is also fallowed by tribal or indigenous people. So conservation or proper use of recourses of phytodiversity should properly utilize for future benefit.

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