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Research paper

"Nature's Guardians: Indigenous Knowledge and Ecosystem Resilience"

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Abstract:

Indigenous knowledge is sometimes thought to be the data that an indigenous community has accumulated over many generations of occupancy in a particular area. All the types of knowledge, technology, skills, practices, and beliefs that enable any group to sustain a stable way of life are defined by this concept. While some types of traditional knowledge are transmitted through myths, tales, folklore, rituals, songs, and even customary laws, traditional information is primarily transmitted verbally through the generations. Indigenous knowledge is currently the most important and pressing issue, as it is connected to the idea of sustainable development and problems with intellectual property rights. Additionally, indigenous knowledge has the ability to aid in the management of local resources by providing the most affordable and sustainable survival techniques. The paper encompasses primary data collected through fieldwork in a village named Sawrakoti, located in the Jubbal district of Himachal Pradesh. This paper tries to throw light on the indigenous knowledge of flora and fauna and their medicinal values to cure various ailments. It also covers the religious components of ecology and its relationship with various local food habits. It attempts to sketch a map of indigenous ecology and resource utilization done by the people living in the area. The data has been collected using various research tools and techniques like participant observation, in-depth interviews, qualitative interview and case studies. The paper analyzes the inter-relationship between people and their local environment and depicts how people live in synchronization along with their ecology.

Keywords: Ecology, Indigenous Knowledge, Local Environment, Sustainable Development.

Introduction:

Local, regional, and indigenous societies enduring customs and practices are typically referred to as traditional knowledge, indigenous knowledge, or traditional knowledge. The wisdom, information, and teachings of these communities are also included in traditional knowledge. Traditional wisdom has frequently been passed down verbally through the centuries. Stories, legends, folklore, rituals, songs, and even laws all serve as vehicles for the expression of some traditional knowledge forms. Other types of conventional knowledge are



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expressed in various ways. Indigenous knowledge is often understood to be the information that a local indigenous community has gathered over many generations of habitation in a specific region. This concept includes all kinds of knowledge technologies, know-how abilities, customs, and ideologies that help a group maintain secure lifestyles in their surroundings. Various terms are used interchangeably to refer to the notion of Indigenous Knowledge.

According to Warren (1991), local or indigenous knowledge is knowledge created by a specific community as opposed to "scientific knowledge" produced by universities, government research institutions, and private businesses. According to him, indigenous knowledge may include such "technical" insight or wisdom that local residents have earned over years of diligent observation and experimenting with the natural resources nearby. Christoph Antweiler has further examined Geertz's usage of the concept "local knowledge" to be local knowledge and local knowledge for its wider and better relevance in the context of development. Though traditional knowledge and local knowledge are frequently used interchangeably, Antweiler (1998) explains that traditional knowledge implies a static perception of knowledge with a lower level of change, whereas local knowledge is broad enough to meet the needs and requirements of local communities and indigenous peoples (1998:469).

Indigenous knowledge is defined as "local, orally transmitted, empirical rather than theoretical, repetitive, fluid and negotiable, shared but asymmetrically distributed, largely functional and embedded in a more encompassing cultural matrix, that which is not epitomized by being a part of a dominant Western scientific knowledge" (Ellen and Harris; 1997). Communities employ indigenous knowledge at the local level to make decisions about food security, human and animal health, education, natural resource management, and other critical activities. This knowledge is an important component of the poor's social capital and their primary asset in their quest to gain control of their own life. As a result, the potential contribution of Indigenous Knowledge to locally managed sustainable and cost-effective survival methods should be emphasized in the development process. Those involved in sustainable development have long recognized the importance of indigenous knowledge, particularly in environmental challenges.

According to Sillitoe (1998), in development contexts, local knowledge may refer to any collective knowledge held by a population, informing perception of the world. It can refer to any aspect of development, notably natural resource management. It is influenced by socio-



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cultural tradition, which is instilled in individuals from birth and shapes how they interact with their surroundings.

Overall, indigenous knowledge is essential for food, clothing, and shelter security, as well as a variety of other derived needs. Perhaps for this reason, the United Nations Resolution-164 named 1993 the "International Year of the World's Indigenous People" on December 18, 1992 (Mishra, 2005:1). Following that, UNESCO expressed worry regarding the preservation of intangible cultural assets of traditional civilizations around the world. Thus, it goes without saying that indigenous knowledge is a cultural necessity without which a community's identity cannot be maintained, unmodified, and cultural continuity cannot be created smooth and straight.

We know that indigenous knowledge can be quite beneficial. Knowledge of how forests work, how and where species migrate, what plants produce what valuable medicines, what signs to look for to know when to plant, how to manage savannas and plains, sustainable harvesting, and so on all contain lessons that scientists can learn from. Too often, it becomes a debate between scientific and indigenous knowledge. Indigenous peoples should be granted intellectual property rights to the medicines they introduced into western knowledge systems.

Indigenous Knowledge:

The dispersed character of Indigenous knowledge (IK) systems creates two major concerns. First, if indigenous knowledge is essentially dispersed and local in nature, and draws vitality from being thoroughly involved in people's lives, then attempts to essentialize and isolate it are futile. Indigenous knowledge archiving and transfer can only appear conflicting. If Western scientists are to be chastised for being unresponsive to local needs and disconnected from people's lives, then centralized storage and management of indigenous knowledge faces the same criticism. Agrawal (Agrawal, 1995a). Second, from a methodological standpoint, "the ultimate irony of attempts to valorize indigenous knowledge may lie in the willingness to adopt Western science's methods and instruments" (Agrawal 1995a; 1995b, 4).

In other words, "scientific criteria are used to validate indigenous knowledge" (Agrawal 1995a; 1995b, 4). Contrary definitions of IK reveal more about what IK is not than what it is. The binary antagonism between IK and scientific knowledge/Western knowledge is a result of institutionalization rather than a spontaneous occurrence. Systematic empirical and comparative studies on IK versus scientific knowledge systems indicate that, in addition to epistemological and methodological similarities, historically complex forms of



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interconnectedness have existed between the two systems of knowledge through exchange, communications, and learning, resulting in their mutual transformation (Agrawal 1995a, 1995b).

A long-held belief is that, in search of universal validity, scientific information is separated from the social, political, and economic settings in which it is produced and implemented. This is an untenable approach, as Arun Agrawal pointed out, because "so-called technical solutions are as anchored in a specific milieu as any other system of knowledge" (Agrawal 1995a; 1995b, 36). Many observers have remarked that scientists labor in a milieu marked by "multiplicity and heterogeneity of space," and so science must be seen as both practice and culture (Agrawal 1995a, 429). To investigate the implications of IK for sustainable development, it is preferable to consider such knowledge as the result of a certain set of intellectual and institutional processes.

The generation of IK requires several stages, including identification, particularization, validation, and generalization, followed by diffusion and utilization. These mechanisms reflect the interests and power of a diverse range of institutions. They have undercut the claimed goals of employing IK in sustainable development in numerous ways. The establishment of data bases, for example, tends to undercut the goals of mobilizing IK for development. This process results in "the elimination of that very difference that indigenous knowledge advocates seek to build and defend" (Geertz 1991, 129). In turn, the method subjects IK to the power of science. "The scientific method's creation of a spatial and temporal distance between IK and scientific knowledge undermines the very characteristic of IK."

The "creation of a spatial and temporal distance between IK and scientific knowledge through the scientific method undermines the very characteristics of IK that render it indigenous' "Geertz (1991, p. 129). External actors and any restrictions local communities had over their environs are removed through the databases, leaving IK legally open to interventions. "The commensuration between the indigenous and the scientific is established, in other words, by denying culturally produced ways of experiencing time, ways of sharing and experiencing time that underpinned the initial awareness of specific indigenous knowledge" (Geertz 1991, 132) through the production of IK in a specific form within the discourse of development.

Glimpse of the Universe:



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The fieldwork was conducted in a village called Sawrakoti, in the Jubbal district of Himachal Pradesh. Sawrakoti lies at an altitude of 1,100 m, is a scenic village on the banks of Pabbar River in Shimla (104 km away) sanctified with a number of temples. The place can be reached through Shimla-Rohru/Jubbal Highway No-10 or through Shimla-Kotkhai Highway No-22 within two and a half hour of journey by bus or taxi. The Sawrakoti Village is a Brahmin dominated village, inhabited by few Rajput and Shudras families who live above the hills. In any ritual and social function, Rajputs calls the Brahmins of this village to perform the rituals and do worship. Sawrakoti village also have a 'Kamaan' area, which is over a hill. The people belonging to Kamaan also are mostly intellectuals and have good Kamman (control) over the village. The people living in Kamaan area are also economically rich. Around the middle of the village, there is a place called as 'khalti' It looks like a play around. Some people call it 'Khallan'. In this place all the people of the village gather here in their leisure time to gossip. Youngsters come here to play. Old people and women come to gossip in their leisure time. Nearby Sawrakoti village, there is a Nepalese colony. Nepalese are regarded as 'backbone' Rid Ki Haddi" for them. Because, Nepalese are mostly the labourers who work in their apple orchards and are cheap labour available. The village is inhabited by both young and old generation and are still connected with nature for their day to day and daily life activities.

Indigenous Knowledge on Flora

Beneficial Flora:

Many trees and floral plants found in the village's ecological domain have extremely high therapeutic potential and are extremely important. These flora are widely and regularly used by the locals in their daily lives for a variety of purposes. Some of these floras are listed below, along with their properties and importance as recognized by the locals.

Trees like *Alanthus, Kunich* and *Phedu* which are widely spread in the area are recognised as the most valuable species for soil conservation as well as used as fuel by many household. The leaves of *Ambload* tree are used to clean rust from the vessels and utensils. A kind of grass known as *Chhanebra* is usually given to cattle and cows for grazing purpose and it also helps their digestive system. The leaf and root of *Chhochli* tree have medicinal value thus people use it in cooking to maintain good health. The leaves of *Dudla* are cooked and given to cow so that the cow gives more milk. The leaf of the *Badiawala* tree is cooked and is eaten because it has high protein content. Similarly, *Koda* is type of flora and looks like mustard



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seeds. Koda have no side effects which can be preserved for 100 years and has medicinal properties to prevent diabetics. *Ninai* is a kind if drink which helps to cure mouth ulcer during summer. Lungudu is a type of dish made up of red rice, *mungi*, salt, turmeric powder, and is given to old man and children to cure stomach ache and *dastt*. Red rice is another important and medicinal flora much beneficial for health. It cures loose motion when eaten with black til. *Mandwa* is usually eaten by people just like chapatti. When Mandwa is mixed with *Chaulai* (seed) and is consumed helps in curing fever as well.

Medicinal Flora:

Kulath (grain) is a commonly found flora which is used to cures stone problem, fever, cold and is mostly consumed during winters. Chalauthi is another type of grain beneficial for pregnant women as this grain has huge content of iron. This is also given to cows to cure fever and cold. Himachal being a high altitude geographical location, the people face severe cold in this region. Trees like Chullu become very good and beneficial for them. Chullu has got medicinal value, the fruit of *Chullu* tree is eaten by locals and the oil from the tree helps in controlling hair fall, dandruff, lessens white hair, used for body massage and is mostly used in winters by everyone. Various diseases and ailments are also cured by the medicinal properties of these plants. The Brass tree is one of the trees having medicinal properties in its flower which is mixed with honey is eaten to cure dysentery. Ritha another ayurvedic plant is used to make soap from the seed from its own fruit. Similarly the seed of the Singhni Mingni fruit is grinded and is used to cure knee problems as well as injection is also made from the same to cure sterility. The bulb of Ban Kakdi, Thuna is used for making injection to cure cancer. Mostly people use the leaf of the *Thuna* tree along with tea leave and drink it as tea. Jalgi is used to cure respiratory diseases. Kachur, Atish and Kadu are used to cure worm in stomach. Kadu is also used as antibiotics and helps in purifying blood. The flower of Bankkshya is used to cure cold. Gauinda is mixed with ajwain and is eaten by menstrual women to cure stomach ache. It is also made like halwa (Flour, water, Sugar and ghee mixed well) and is given to pregnant women after delivery for three to four months. Kachur is used as medicine to cure cold fever. Kachur is mixed with gur, kalimirch and ilaichi and a soup is prepared which is beneficial to cure fever. Kachur mixed with ajwain helps to cure stomach problems like loose motion. Chullol is made from the fruit of chullu. The chullu fruit is mixed with ice, rock salt, green chilli and is used as paste on the decayed tooth. It acts as a medicinal paste to cure tooth ache. The fruit of Kakkad is dried and then is fried with ghee

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and later mixed with honey and is taken to cure cough in chest. The leaf of *Nirvisi* plant is made into a paste and put on the wound due to dog bite. This paste helps in reducing the poison from dog bite on the body. The roots of *Bai* grass helps to cure throat infection.

Multipurpose Flora:

The wood of the *Deodar* tree is used to construct home and furniture as it is well known for its durability for around 100 years. The wood of Deodar has higher oil content for which it does not decay easily. The leaves of *Khajant* tree are used for fodder and firewood. Similarly the grass named Bhibha is very sharp in its edges and has got greater flexibility hence is used to make ropes which are very much durable. Bhang is used by people to make chapatti out of its seed after frying them. The bark of the Bhang plant is also used to make ropes which last for a long time. The leaves of *Mooru* tree is used as cow fodder. The small branches of the Akhrot tree are used as tooth brush. The wood of the tree is also used to make furniture, mostly people prefer to make roof of their house using the wood of Akhrot tree. Floras like Rubinia and Baan are used as fodder and fuel. Timber is another tree which is available numerously in this area and is widely used for various purposes. Commonly it is used as tooth brush to prevent tooth cavities on a day today basis. The woods of the Kashmol tree are also used as tooth brush to prevent tooth decay. The wood of this tree is also soaked in water overnight and then is given to the person suffering from jaundice in order to cure jaundice. Kimsti is a type of bushes; generally the leaves of the Kimsti have thorn that's why the local Himachali people are unable to use it whereas the migrated Nepali labourers boil these leaves and eat it to keep their body warm during winters. The bark of the plant is used to make ropes too. The oil from Til is used as a type of massage oil to cure knee problems especially during winters by all the ages of people for its various medicinal properties and well as cosmetic benefits. Kimsu shrubs have leaves with thorns which if pierced causes severe itching and to cure it, the leaves of Bhang are rubbed on the affected area. The grass called as Kusa is mixed along with dub grass, red soil, and Kimsu leaves and are grinded and then made into a paste and is put on the leg of the cow or the affected area which act as a natural plaster for them.



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Indigenous Knowledge and Belief System

In the village of Sawrakoti, the surrounding environment which includes flora, fauna, river and mountains are bonded within the sphere of religion. Some of the data collected from the village is mentioned below.

Tree leaves of Kimp, Pajja and *Barveli* are tied together in a religious motive called as Mahadevta. The *Mahadevta* is then hanged from the roof of the front door of the houses during Maha Shivratri and is changed only on next MahaShivratri. Similarly during marriage ceremony there is a ritual in which the bride put her palms in a sacred turmeric paste and then leaves an imprint of her palms on the walls of the house. In Sawrakoti village people worship *Banat Devta* who is the *Kul Devta* of the village and is regard as Vishwa Swaroop. Thus do not perform any sacrifice there and regard the place to be very pure and sacred: "Satwik Jagah hai yeh".

The *Pabbar* river flowing along with village is regarded as very holy. Even there is another name of the same river Pabbar – as Giriganga which is also regarded as holy and it flows from *Khadapathar*. Trees like *Peepal*, *Banana*, *Jubarass*, *Kusha grass*, *Pajja*, *Tulsi*, *Deodar* are regarded as holy. People also find *Koyal* as a holy bird. A shrub known as '*Bekhulu*" is used in rituals performed and is regarded as holy. People worship "*Chasme ka Pani*" (ground water) on special occasions. They also make sure that the area near to it should be clean and hygienic. On religious occasions and rituals the villagers clean the area nearby to the ground water source and perform rituals like offering food (halwa) to the God. Usually people use groundwater because during summer it is cold and during winter the groundwater remains warm. They avail this water through a tap connection to everyone house. People also worship home and soil and their crop field in ritual named "*Bhoomi Pujan*". According to this they should worship soil so that they regard their obligations towards the soil on they which they live.

The people of the village have three types of broom stick named *Shunta*, *Shuin*, *Jhadu*. Shunta is used to sweep kitchen it is not touched to leftover food made up of chid leaves and is regarded as very sacred. *Shuin* is made up of grass and is usually used to sweep veranda and room. It is kept within the house. Whereas *Jhadu* is kept outside home and is used for outside purposes only. Red_rice_has_got_due_importance_in_the_life_of_the_people_in Mahashivatri, a diya (traditional candle) is put above the red_rice and is offered to God.



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Similarly during marriages and birthdays, people earlier used to cook red rice for all and it was worshipped in front if God before given to guest. During Mahashivratri, people worship leaves of 'Bail" tree. The grasses of jaw are cut and worshipped during Mahashivratri which act as a symbolic Mahadevta. Jub grass is also used in almost every puja. Deodar tree is regarded as holy, that's why people use the branch of the deodar tree to make *Bedi* (where marriage rituals taxes place). At least deodar branches should be present in four corners of the Bedi. People use "Panch Gabya' in rituals which consist of five components which are: Gobar Ganesh, Go mutra, Cow milk, Cow ghee, Pure honey. Chalauthi - Made up of Koda and chalai. It is also known as iron food. The color of Chalauthi is grey. It is rich in iron content and is good for pregnant women. If chaluthi is made in form of chapatti it can be preserved for 3-4 days. And when made into powder form, it can be preserved for around 20 years. Chalauthi is eaten during cold mostly, so that it can warm the body and is usually avoided in summers. The milk quality is deteriorating day by day. It is because cows are given number if injections the milk quantity is becoming less, people are mixing more water in less milk in order to have more profit. Earlier the quality of milk was good but now the cow business is lowering. People are becoming more business oriented and horticultural oriented. Vada is made up of urad dal which is mostly made during Mahashivratri. It is not easy to digest and keep body warm in witness. Muda is made up of puffed red rice. This is usually given to guest, send along with bride to her grooms home, it is also worshipped in rituals and people usually eat it in leisure time.

Discussion:

For millennia, indigenous people around the world have acquired a deep understanding of their natural environment, utilizing the healing power of native flora and wildlife. This priceless indigenous knowledge of medicinal plants and their characteristics has not only improved the health and well-being of these communities, but it also holds great potential for modern medicine and sustainable healthcare practices. The indigenous peoples' knowledge of flora and wildlife stems from their close relationship with nature. This wisdom has been passed down through centuries and is a combination of observation, trial and error, and a deep regard for the environment. Plants and animals are more than just resources for these communities; they are also collaborators in healing. The extensive use of botanicals and other natural substances to treat illnesses is a testament to the intricate relationship between humans and the ecosystem they inhabit.

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In a series of seminar papers, Jodha (1986) emphasizes how resource utilization in an economy is socio-culturally reliant. For example, in India, the bulk of the rural population relies on Common Property Resource (CPR) for a living. Simpson (1994) examines gender and socioeconomic diversity in southwester mail local knowledge. He observes that rural farmers have diverse local knowledge that varies in both quantity and quality. Indigenous healthcare systems have always relied on medicinal herbs. These cures frequently address not only the physical symptoms of the disease, but also the spiritual and emotional components of it. The holistic approach of traditional medicinal knowledge distinguishes it. Indigenous healers recognize that an individual's health is inextricably related to the health of the environment. As a result, their activities are highly sustainable, emphasizing resource stewardship to assure their availability for future generations. This ecological mindset is consistent with current attempts to manufacture environmentally friendly and ethically derived pharmaceuticals.

Conclusion:

Finally, indigenous knowledge of flora and animals, as well as their medicinal properties, provides a rich tapestry of wisdom that has nourished communities for ages. This understanding demonstrates the intimate bond that exists between individuals and their natural environment. As contemporary medicine seeks for more ecological and holistic ways, indigenous practices' insights have enormous potential. We can find a treasure trove of cures that not only cure ailments but also create a harmonious relationship between people and the natural world by honoring and partnering with indigenous tribes.

Overall, indigenous knowledge can be defined as the "sum total of the knowledge and skills which people in a particular geographical area" (Sachchidananda, 2008:19). As previously established in anthropology, it is intimately related to the topic of a simple society's survival. It enables people to make the most of their natural surroundings. It benefits the locals in many aspects of their lives. The interdependence of humans and their surroundings is a delicate ballet that has been choreographed over ages, resulting in a happy cohabitation in which human life and ecological equilibrium coexist. This delicate interaction exemplifies communities' incredible ability to adapt, respect, and live in harmony with their surroundings, fostering a sustained and symbiotic existence.



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Johnson (1972) examines the method of gathering Traditional Environmental Knowledge (TEK) through participatory action or a community-based approach. From distant tribal communities to charming seaside towns, people's relationships with their surroundings are profoundly engrained in their way of life. These societies have a keen grasp of nature's rhythms, identifying the patterns of seasons, tides, and weather variations. This awareness enables them to anticipate and adjust to environmental changes, minimizing the impact on their lives while maintaining the ecosystem's continuous health.

Traditional agriculture practices are a perfect example of this interdependence. Farmers all throughout the world have devised techniques that work with nature rather than against it. Crop rotation, terracing, and agroforestry are methods for not just increasing yields but also preserving soil fertility and preventing erosion. This long-term approach protects the land's production for future generations, ensuring that both human needs and environmental health are addressed. Furthermore, cultural practices and belief systems represent the link between individuals and their local environment. Many indigenous communities include nature worship into their spiritual and social structures. Cultural rituals center on sacred groves, natural landmarks, and specific species, instilling a sense of responsibility for the environment's well-being. This reverence acts as a driving force for sustainable resource management and preservation efforts. The constructed environment also demonstrates the interdependence of humans and their surroundings. Climate, available resources, and cultural values all influence architectural styles. In arid places, mud houses provide thermal insulation, while stilted structures in flood-prone areas give safety during monsoons. These constructions show how human inventiveness blends effortlessly with the demands of the local environment, yielding structures that are both useful and environmentally conscious.

As we battle with environmental concerns and climate change in today's world, the wisdom of living in harmony with the local environment takes on increasing significance. Communities all across the world are adopting eco-friendly practices that are in tune with their surroundings. Solar-powered energy solutions, rainwater collecting systems, and green building technologies are just a few instances of how modern innovation is borrowing from old methods to create a more sustainable future. This harmonic interdependence, however, is not without danger. Rapid urbanization, resource depletion, and environmental deterioration all have the potential to upset the delicate balance that has been formed over generations. As we move forward, we must realize the necessity of maintaining indigenous



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knowledge and incorporating it into modern initiatives. Empowering local communities to actively participate in the preservation of their ecosystems promotes a more balanced and

sustainable future.

Finally, the interdependence of people and their local environment illustrates communities'

tremendous ability to adapt and thrive in harmony with nature. Individuals have evolved

sustainable practices that ensure the well-being of both humans and the environment by

observing and respecting the patterns and processes of the ecosystem. There is much to

learn from these happy coexistences that span time and location as we seek solutions to

global environmental concerns.

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