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Is Ecopreneurship A Panacea for The Mizo Society- An Analysis

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ABSTRACT

Ecopreneurial activities have an overall positive impact on natureand it move towards a more sustainable future. **Ecopreneurship** is a term coined to represent the process of principles of entrepreneurship being applied to create businesses that solve environmental problems or operate sustainably. Every society has their own share of societal problems. Some problems are resultant of some deep rooted cultural practices and removing it is extremely difficult. Slashcultivation in Mizoram is one such societal practice that contributes to the environmental degradation. The paper argues that introduction of Ecopreneurship may ease the pressure as it can improve the livelihood of the people, eradicate poverty and stop the degradation of land. This article which is based on primary as well assecondary data and it tries to analyse the importance of Ecopreneurship for the Mizo society.

KEYWORDS: Ecopreneur, Sustainable Development, Slash Cultivation, MizoSociety.

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I. INTRODUCTION:

Ecopreneurship is a term getting prominence in the 1990's, to represent the process applying principles of entrepreneurship to create businesses that solve environmental problems or operate sustainably. The concept of entrepreneurship is ever evolving, the concept can be traced back to the early 16th century, whereby it meant for those who were engaged in military expeditions, in 17th century it was extended tocovercivilengineeringactivities,in18thcenturyEntrepreneursaredistinguishedfrom thecapital provider (venture capitalist), in the 19th and 20th century it is closely related with economic perspective, in present day context we are using this term as a mantra for developmental processin most of the society. Enterprising behaviour can be found in all societies and in all types of economic circumstances. For the development of society, we need to use the transformation approach i.e.,oldsystemtonewsystemofthinking&workingthatshouldbeabeneficial system, for the personconcern and thesociety as a whole for eradication of environmental problems.

It is a well-known fact that to be a successful entrepreneur one needs to be creative, have the opportunity and be able to creatively use resources available. With the increased awareness of environmental issues, the idea of green entrepreneurs or the ecopreneures emerge in the scene in the last one/ two decades (Pastakin 1998), and they are looking for an enterprise which is sustainable cause less harm to the environment. Ecopreneurs are basically social entrepreneurs whose entrepreneurial motive is not only profit making but also has a social concern manifested through creative thinking and innovation. They definitely have a thought on the future aspects of development of the society as a whole and environment in particular Ecopreneurs try to address various issues and problems ofthe society, community, environment and many more in a sustainable way. To respond to the various environmental issues and the present day societal demands the responsibility of an entrepreneur

alsoincreasesinmanywayslikeproducingnewproducts,improvingtheworksystem,newmethodsofmarketingandenvi ronmentalmodelsofbusiness.Entrepreneursareworkinginsustainableways of life and adopted a futuristic vision of a better and sustainable environment friendly society.

Mizoram is one of the hilly states in the North East India with an area of 21087 square km. This State is shares International borders with two countries, Myanmar, in the east and in the south,Bangladeshinthewest.Accordingto2011censusreportofIndia, the population of the state is10,91,014 which records an increase of 22.78 percent from the last decade. Out of this population 5,52,339are male and 3,38,675 are female. The literacy rate of the state is 91.58% (Male 93.72% and female 80.4%) which is abovethe national average of 74.04%.

More than the half of the population is dependent on agriculture and allied sectors.

As is done in almost all the tribal societies of North East India, the mode of agricultural practice is mainly the slash and burn cultivation which is an age long practice deeply rooted in the cultural mindset of the people. As

2011 of the total population of Mizoram 55.76% Census. out total workersareen gagedinagricultural activities. Morethan 60% of the population depends upon a gricultural and allied sector. About 32% of the cultivated area is under Jhum cultivation or slash cultivation. According to many studies, Mizoram suffered from environmental degradation and climate change (Sati V.P 2019). This type of agriculturalactivityhas directly orindirectly affected the environment. A study conducted by the Department of Geography and Resource Management, School of Earth Sciences, Mizoram (2019) reveals that, of 21,000 square Km spread in the state only 5.5% is arable compared to the 44,947 hectare that were under jhum cultivation in 2007, of course there is a switching to the plantation of oil palms and sugarcane but this might not be equivalent to the land left abandoned, the study also found a drastic reduction in the fallow period and the reduction in the crop yield³. All these factors have affected the Jhuming practice in the state and calls for a new venture. It is felt that in order to ease the pressure on environment due to this traditional method of cultivation introduction of modern concept of agricultural practices is needed. Ecopreneurship is one such thing that will be useful in this whole endeavor. The idea of Ecopreneur is very new but this is very important forsustainable development of the society. No society can exist without entrepreneurial activities and society dependsonentrepreneurship.

Objectives of the study:

The paper has the following objectives:

- 1. To analyse the problem of Jhum cultivation in Lawngtali district of Mizoram.
- 2. Tounderstand the role of ecopreneurin sustainabledevelopment.
- 3. Suggest measures to curb the problems of jhum cultivation.

II. METHODOLOGY:

The data for the paper is based onprimaryas wellassecondarydata. Forprimary data questionnaire method is adopted and for secondary data available literature in books, journals, statistical handbookand other formsofsecondary dataweb page etc. were used.

III. REVIEW OF LITERATURE:

The living beings are depending upon the environment but due to many factors we are directly or indirectly, knowingly or unknowingly, willingly or unwillingly destroyed the environment in some way or other which in turn increases the social problems. In order to address this issue, the service of Ecopreneur (ship) comes handyfor solving the environmental related problems as well as many social problems.

From 1990 the concept of ecopreneur begin, Blue (1990), Bennet (1991), Berle(1991), Anderson and -- (1997), Isaak (1998), Keogh and Polensky (1998), Adeoti (2000), Larson (2000) and Kyro (2001), Kuratko and Hodgetts (2002), Kao and Kao (2002) etc. ManyEuropean countries, South Asian countries, African countries applied the concept of Ecopreneuror environmental entrepreneur or green entrepreneur for solving their social problems

as well as

forsustainabledevelopment.RepublicofKoreaenactedthesocialenterprisepromotionActin2007and the basic low on cooperatives in 2012, in 2015, Thailand approved Social EnterprisepromotionActin 2013,Chiledeveloped its green growth strategy.Out of 28 members State in European Union, 20 have a national definition of socialenterprises. In India, 'Make in India' policy 2014 and 'National Policy for Skill DevelopmentalEntrepreneurship' 2015 are amended. The role of social entrepreneurs and innovation has alsobeen emphasized in the Government's twelve 5th year plan (2012-2017). In Mizoramvery few research works have beendonerelating toEcopreneur ship.

${\bf Ecopreneuran denvironmental problem in Mizoram:}$

Mostofthecountrieshaveen vironmental problems relating with land, water, air, climatic condition, vegetation etc. The percentages of these problems differ from place to place and country to country. A survey conducted by the scientists of Indian Institute and Technology, Guwahati and Indian Institute of Technology, Mandi incollaboration with Indian Institute of Science Bangalore, under a common framework form on itoring climate change and vulnerability in all the states in the Himalayan Region—Assam, Manipur, Meghalaya, Mizoram, Nagaland, Arunachal Pradesh, Sikkim, Himachal Pradesh, Jammu and Kashmir and Uttarakhand and hilly districts of West

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¹Of 21,000 square Km spread of the state, only 5.5% of it is arable compared to the 44,947 hectare that was under Jhum cultivation, less than half of the area is now used in Jhum cultivation, the rainfall has reduced 1.4% on an average and the temperature has risen by 0.4degree Celsius.

² The fallow period in between Jhum cycles has been thinned down from 20-25 years to 3-5 years, the main reasons being reduced rainfall and fertility of the soil.

³ In the last 17 years (2000-17) paddy production is gone down by 2.1%, ginger by 15.9% and chili by 5.2%

Bengal found that among these states Assam and Mizoram are the most climatically vulnerable states among the regionstateswiththevulnerabilityindex 12 Indian Himalavan of 0.72and0.71 respectivelyfollowedbyJammuandKashmir at an index of 0.62andManipur at 0.59. This is because of many factors like deforestation, large number ofmarginal farmers, least number of irrigated areas and low per capita income, lack of alternativesource of income and high rate of poverty etc. The newly developed index is said to be based onsocio-economic factor, demographic and health status, sensitivity of agricultural production, forest dependent livelihoods and access to information, services and infrastructure. In addition to this, according to a recent of Skynetweather.com India recorded only 99mm rainfallagainstthe normalaverageof13.15mmforthepre-monsoonseason, March, Apriland Maywhile the eight states in North East period, Mizoramhas thunderstorm witnessed isolated rains and during the aplaceinthelargedeficientcategorystatesofIndia.

Ideally in the pre-monsoon season, Mizoram is supposed to receive about 240mm of rainfall, unfortunately, the state received only 71.5 mm with a deficit rainfall of about 70% in 2019⁴. This is a clear example of the impacts of the human cation to the environment and the society in turn is experiencing a deficiet in crop and had to bear the heat which is quite unnatural in this region.

Inthissituation, the stateneeds Ecopreneur. The idea of entrepreneur is very new but this is very important for sustainable development of the society. Everything around us in some way has its roots in entrepreneurship, products, systems and ideas are all part of an entrepreneurial ecosystem. No society can exist without entrepreneurship. The entrepreneurial activities have an overall positive impact on the natural environment and they move towards a more sustainable future.

Entrepreneurship is not only important for market-basedeconomybutalsoitplaysongreenbusiness practicesinasustainableway. According to World Commission on Environment and Development (WCED 1987:43) anindependent body established by the United Nations, Sustainable development is defined asdevelopmentthat "Meettheneeds of the present without compromising the ability of future generations to meet their own needs." Sustainable entrepreneurship is defined as 'the process of discovering, evaluating and exploiting economics opportunities that are present in market failures which distract from sustainability, including those that are environmentally relevant (Bean and McMullan 2007:58).

According to Munoz (2013), Sustainable entrepreneurship focused on pursuingbusiness opportunities to bring into the development of society, the economy and theenvironment and consequently the enhancement and wellbeing of future generation. In short, the different types of positive impact of Ecopreneur ship can be divided into four different categories: 'Social justice, environmental protection, economic prosperity and intergenerational equity' (Munoz). Now in Mizoram, all these four factors are very important for well protected environment as well as for the development of the society as a whole.

Ecopreneur and Sustainable Development:

Sustainable development is a broad concept that balances the need for economic growthwith environmental protection and social equity. It is a process of change in which the exploitation of resources, the direction of investments, the orientation of technological development and institutional change are all in harmony and enhances both current and futurepotential to meet human needs and aspiration. Sometimes this concept combines economic, social justice, environmental sciences and management, business management policies and law.Sustainable development indicated developments that meet the needs of the present withoutcompromising the ability of future generation stome et their ownneeds. It helps in sustaining the ability of natural system to provide the natural resources and ecosystem service upon which theeconomyand society depends. Sustainability creates and maintains the conditions under which humans canexistinproductiveharmonythatpermits infulfillingthesocial,economicandotherrequirementsof the present and future generations. Everything that we need for our survival and wellbeingdepends, either directly or indirectly on our environment, weneedEcopreneur for sustainability, conservation ofenvironmentand solvingmany other social problems. Among the various social problems in Mizoram slash cultivation is one of the problems related to environment degradation, the paper is an attempt to analyses this situation.

Slashcultivation/Jhumcultivation:

Slashcultivation(Jhum)isoneoftheoldestsystemsofagriculture, ithas been under attack in recent times. Inspite of its pivotal role in the culture and livelihood of societies, shifting cultivation isoften perceived as threat to the forestecological system and it has been categorized with large scale of deforestation. There are two views on shifting cultivation which has been categorized in ecological implications and socio-economic implications that advocate about the impact of slash cultivation. The

⁴ This is the second driest pre-monsoon season in the last 65 years, the year is equal to 2009, Skynetweather.com (2019)

adverse effects of slash cultivation on the environment are well established scientific facts Food and Agricultural Organisation revealsthat deforestationcausedbyshiftingcultivationis oftenviewedas one of the unresolved issues in planning for tribaldevelopment. About 10 million hectares of tribal land stretched across 16 states is estimated to be undershifting cultivation in India. It is mostly practiced in Bihar, Orissa, Madhya Pradesh. Chhattisgarh, Andhra Pradesh, Karnataka, and the hilly region of the North-Eastern states.

AccordingtotheGovernmentofIndia's reportof1995, slash cultivation is amajor cause of land degradation that has constantly agricultural productivity declined the and thus income ofthefarmers. InMizoram1.5% of the total area is being affected by shifting cultivation, annually (Maithani 2005) that cost about Rs 1billion forestresource has beenloss (Lalkhana1985). Biologist, foresters and conservations have noticed the shifting cultivation onbiodiversityinthe tropicalforest(Raman, 2000). Manyscholars believed that shifting cultivation effects are very destructive (Rao & Hajra, 1986, Lal & Prajapari, 1990; Tiwari 1991, Dwivedi 1993). In Mizoram, the studies on ecological impact of shifting cultivation have also beencarried out by Tawnenga (1990), Tawnenga and Tripathi (1996) and Tawnenga et.al. (1997). Clearing forest for shifting cultivation can contribute to climate change, biodiversity loss,reducedtimbersupply,flooding,siltation,soildegradationandchangeofforestyegetationfrom in secondary andeventually to grassland(Holden, 2001).

SlashcultivationinMizoram:

Shifting or Jhum or Slash cultivation is known as 'Tlangramloneih' in Mizoram. This is one of major agricultural practice followed from early times. Mizoramisoneofthestatesthathavetheproblemofclimatechangeduetomanyfactors. From the expert opinion slash cultivation important factors one of the for climate change aswellas is environmentaldegradation. Ithas many impacts in the society as a whole. So, from time to time the central government and the state government initiate many action programmessubstitutingthisactivitybut the practice is continuing in some way or other in the state.

Under Jhum cultivation system, farmers cultivate their crops in a particular land for oneyearandthenextyear, theymovetoanew Jhumland. In the Jhumlands farmers cultivate cropseither for family consumption or selling purposes. Normally there are two types of land holding system which is followed by the shifting cultivators. Firstly, permanent land which is owned by the household which has been inherited by the family. Secondly, Jhum land or temporary landwhich is cultivated for a year that is allotted by the village Council for Jhumming. Some of the household owned both permanent and temporary land while there are also lender householdmanaging only allotted Jhumland for cultivation.

Despite all the short comings, this type of cultivation cannot be stopped completely as the life style and cultural ethos of the tribal people is closely governed by Jhumming operations.

SlashcultivationisnotjustanoccupationbutalsoawayoflifeoftheMizos. Theirneeds, foodhabits, folklores, festivals and the overall cultural ethos show that this practice is deeply rooted in the social life of the farmers. Shifting cultivation occupies an integral part in the economy of the rural people in Mizoram. It is not only the major source of livelihood it is also awayoflife.

In traditional agriculture like slash cultivation which is mostly practiced in Mizoram, theemployment of modern technology is limited by the method itself, in any case, the level ofoutput is supposed to be related to the size of holding and the level of employment. On the otherhand, this type of farming system is not only destructive for the environment, but also highlyunprofitable and labor consuming as one can barely harvest a year's supply of crops for one'suse. As are sultofthis and the growing population, Mizoram's landhass lowly lost their fertility and wooded are assover the decades are losing to an alarming rate. This has resulted in drying up of springs and rivers and depletion of underground water reserves and loss of precious fertile topsoil. It is estimated that about 16.84% metric tonof soil has been lossevery year. Therefore, the fertility of soil has been reduced. This has resulted in low production and per hectare yields of cereal crops from the shifting cultivation.

Study site- The Lawngtlai District:

Lawngtlai is the district headquarters of Lawngtlai district in the State of Mizoram. It isalso the headquarters of Lai Autonomous District Council, one of the three autonomous district councils in Mizoram. The distance between Lawngtlai and Aizawlthrough NW54 is 296 km and is connected with regular bus and jeep service. Lawngtlai is also going to be the Nodal point in India for the Kaladan Multi-Modal Transit Transport project which will link the town with Setpyitpyin (Kaletwa) in Myanmar through a 62 km highway.

According to the 2011 census out of the total population of the state, around 55.75% of the total workers areengaged in agriculture activities. Out of 2,22,853 households in Mizoram, the Jhum

cultivatorscompriseof58751households(26.36%) distributed in the eightdistricts.Outofeightdistrictsinthestate Lawngtlai district is one of the least developed one. In 2011, Lawngtlai district has apopulation of117,894of whichmaleandfemalewere60,599and57,295 respectivelyandgrowth of population is 60.14%. The district has an area of 2557 sq km and density of population is 46. Averageliteracy rate of Lawngtlai in 2011 is 65.88%(males 72.12%, females 57.12%), which has observed a reduced rate of literacy from the previous decade⁵.

The primary data for the study was collected from a village Bualpui Ng.of Lawngtlai district. BualpuiNgis avillagewithtwosub-villagesBualpuiNgEastand BualpuiNgWest. Bualpui Ng E is a village in Sangau Block in Lawngtlai district it is located 28kmtowards North from district headquarter Lawngtlai. According to 2011 census the population of Bualpui Ng Eis 1207 with 244 households and BualpuiNgWis 796 with 156 households. The total population in the village is 2003 and has 400 households. Out of these 400 houses, 50 households were picked uprandomly for this study.

Table 1
Size of the family

Rangeoffamilymembers	No.ofhouseholds	No.inPercentage
0 -5	23	46
5 – 10	24	48
10-above	3	6
Total	50	100

Source: Primarydata

Most of the families in the village have joint family system. Out of a total of 50 households, around 48% of them are having 5 to 10 members in the family and around 46% of them are up to 5membersand6% of themarehaving more than 10 members in their family. Labour requirement is always more in Jhum cultivation

Table 2 **Availability of Benefit**

Availability of benefits	Yes	%	No	%
Govt. and non-govt subsidy	18	36	32	64
Training received for framing	15	30	35	70
Availability of seeds and grains	18	36	32	64
(subsidized/free)				

Source: Primarydata

Regarding the availability of benefits from government and non – governmentinstitutions most of the farmers about 64% ofthem said they don't get any subsidy, regardingthe new farming methods only 30% of them have the idea but 70% of them are notattended any kind of training programme for plantation of their crop, 36% of the farmers saidtheyreceivedsomeseedsandgrainsbutmaximumofthemi.e.,64%saidtheydon'treceiveanyseeds and grains. Whatever they needbuy fromthemarket.

Table- 3
Use of Fertilizer

OSC OF TEITHIZET				
Types of fertilizer	Yes	%	No	%
Artificial	13	26	37	74
Compost and other Farm manures	27	54	13	26
Both artificial and organic	10	20	-	-

Source: Primarydata (some farmer opted more than one options)

The numbers of farmersusedfertilizers fortheirfirmsi.e.,54% of them saidtheyusecompostand other forms of manures, while 26% of them said they use artificial fertilizers and 20% of them saidtheyuse both eventhough their production is very less due to many factors.

Table- 4 **Family Income**

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Range of income from the farm		Number of farmers	Percentage		
	0- 10,000	45	90		

⁵ The literacy rate of Lawngtlai in 2001 was 67.6%.

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10,000-20,000	3	6
20,000-30,000	2	4
40,000-50,000	-	-
50,000- above	-	-

Source:Primarydata

Regardingthefamilyincome90% of themsaid their income from the firm is only up to Rs 10,000 per month. 6% of them said they have income between 10,000 to 20,000 and only 4% of themsaid their income is around 20,000 – 30,000 respectively.

Table 5
Willing to adopt sustainable method of Farming

Reasons for the change	Yes	%	No	%
Want to adapt to the new market of	48	96	2	4
farming				
Want to continue with the traditional	2	4	48	96
method				

Source:Primarydata

Nowadays most of the farmers are eager to introduce newer method in the farming method i.e., 96% of them wanted b use new method of farming for sustainable development but still 4% of them want to continuethesamemethodthey have. From the above analysis we know that slash cultivation is not suitable for most of thepeoplebutthe farmers opined that the options are very limited sotheycontinuethesamemethodoffarming.

IV. CONCLUSION AND SUGGESTIONS:

Every society has many problems, for solving and reducing the problems manyadventures are identifying the device. considering importance the inorderstoimprovethelivelihoodofthepeople,eradicatepovertyandstopthedegradationoflandduetoslashcultivation. weneedthehelpofEcopreneurforhelping and addressing allthesesocialproblems. Most of the time, Ecopreneur activities have an overall positive impact on the naturalenhancement and they move towards a more sustainable future. For sustainable development werequire sustainability innovation of all work system and entrepreneurs who can addressedenvironmental issues associalgoals with best product and processing methods that are successful in the mainstream society, contribute solving environmental problem and creating economic value. (Schaltegger and sustainable entrepreneurship Wagner). Mizoram need to apply proposed byLichtenstein(2011)thatconsistsofeightecological action

1.Individual aspiration, 2.Network Affiliation, 3.Process optimization, 4.Entrepreneurial innovation, 5. Value chain collaboration, 6.Industry/Sector coordination, 7.System—wide integration and 8.Social transformation.

Individual aspiration or adaptation to new system of methods, technology, thinking,working etc. are necessary. Network affiliation is also necessary for change in new system ofwork. When they need any information regarding the farming method, training programmes, new policies of the government, marketing facilities etc. Should be readily available. Sometimes social network is an important tool in optimization and in applying the new methods of farming

and displaying in a way that is good andbest.Nowadays people are more conscious about health so organic products are more likely in demand. Thefarmers try to produce good quality products with collaboration with innovative ideas, methods, system etc. Value chain collaboration here needs different agencies like government, NGO's, supporting agencies for consuming the environment as well as sustainable development for all. Achieving sustainable development needdifferent supports from different agencies support, all the system need to be integrated and social support as a whole for stopping or reducing the degradation of environment and sustainable development as a whole. For achieving these goals, we need the person that is an Ecopreneur.

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