MICROPLAN FOR NEW DIAKKAWN VFDC (GIM)L3 UNDER KOLASIB-BAIRABI L2 LANDSCAPE (GREEN INDIA MISSION)

PLAN PERIOD: 2016-'17 TO 2022-'23

Prepared by

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Chapter 1

Introduction, Scope and Objectives

1.1 About the State (Landscape - L1)

1.1.1 Introduction

Mizoram was earlier a part of the British India since 1895. In 1898, the district called "Lushai Hills" was created with Aizawl as its headquarter. After independence in 1947, the district was renamed as "Mizo District" and also the autonomous Mizo District Council was established on 25th April, 1952. Subsequently, Mizoram was made a Union Territory in 1972 and finally, it became the 23rd State of India on 20th February, 1987.

1.1.2 Location, Extent and Topography

Mizoram, which is one of the Seven Sister States in the North-Eastern India, is located between 21°56` and 24°35` N Latitude and 92°16` and 93°26`E Longitude. It shares the boundary with Assam and Manipur on the North, Myanmar on the East and the South, and Tripura and Bangladesh on the West. The long international boundary (about 630 miles) of Mizoram with Myanmar and Bangladesh makes it strategically located.

The geographical area of the State is 21,087 sq. km. with mostly hilly terrains. Most of the hills have moderate to steep slopes and are separated by rivers flowing either to the North or South direction. These rivers have created deep gorges between several hill ranges. In fact, Mizoram is "a land of rolling hills, valleys, rivers, and lakes" (Environment & Forest Department, 2010, p.5). The plains occupy comparatively a very small portion of the total geographical area and are mostly located at places such as Champhai, North Vanlaiphai etc. on the eastern part of the State.

1.1.3 Climate

The whole of Mizoram enjoys a pleasant climate with cool summer and moderate winter. The temperature varies from 11°C to 21°C during winter and 18°C to 29°C in summer. The State gets rainfall from both the North-East and the South-West Monsoon. It receives heavy rains from May to September. The average annual rainfall is about 254 cm. As such, the climate in Mizoram is conducive to conservation and sustainable development of forests.

1.1.4 Soil

The soil in Mizoram, in general, is fertile and rich in organic contents. However, the soil depth is found less at few places, particularly at very steep slopes, due to the effect of heavy run-off in degraded forests. The contents of potash and phosphorus in the soil are low, whereas the content of nitrogen is normally high because of the accumulation of organic matters over the years. The fertile soil is generally found at low to moderate slopes, on river banks and in the valleys. The soil at such

places is responsive to the vigorous and healthy growth of the forests and thus supports rich biodiversity.

1.1.5 Demography

The population of the State was 10,91,014 as per 2011 census, of which 5,52,339 (51 percent) are male and 5,38,765 (49 percent) are female. The population density has increased from 33 to 52 persons per sq. km. during the decade, 1999 - 2011. Most of the people in the State belong to several culturally-linked ethnic tribes which are collectively called "Mizos" (Mi: People, Zo: Hill). These people are highly educated. Mizoram has a literacy rate of 91.58 %, which ranks it second among States in India. "Mizo" and "English" are the main languages spoken by the majority of the people.

1.1.6 Socio-economic life of the people

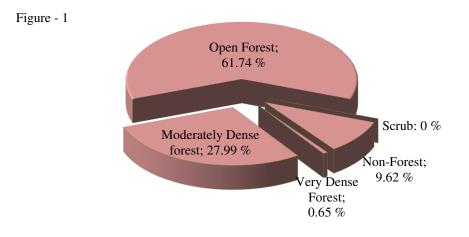
Since signing the "Peace Accord" on 30th June 1986, the State has effectively implemented several developmental schemes. Peace and development have resulted into comparatively better Human Development Index (HDI). The HDI in Mizoram was found 0.67, the highest among the north-eastern States and more than the national average (Government of Tripura, 2007, p.28).

Agriculture is the dominant source of income and employment for the people in Mizoram. As per 2001 census, 61 percent of the working population in the State was dependent on agriculture. In rural areas, most of the people are engaged in "Jhumming" (shifting cultivation). 89,454 households, 57.85 percent of total 1,54,643 households, were cultivators and further, 78,195 households, 87 percent of all cultivator households, were practicing shifting cultivation (Government of Mizoram, 2004, p.17). The "Jhumming" practice has adversely affected the rich forest cover of the State. Planned efforts are now being made to control and transform the practice of shifting cultivation into settled agriculture. Technical and financial assistance is being given to the rural people enabling them to leave the practice of shifting cultivation and get engaged in other sustainable livelihood activities such as horticulture, piggery, settled cultivation etc.

1.2 The forests in Mizoram

1.2.1 Forest cover

A large area - 19,277 sq. kms. (91.44 percent of the State's total geographical area) - is covered under forests i.e. Forest and Tree cover (Forest Survey of India, 2013). However, the forests have suffered serious depletion and degradation due to the traditional practice of shifting cultivation, uncontrolled fire, unregulated felling etc. As per the "India State of Forest Report 2013" published by the Forest Survey of India, the State has 13,016 sq. kms. open forests which is 67.70 % of the total forest cover and 61.74 % of the total geographical area. The density-class of forests found in the State has been shown below graphically in Figure 1.



Source: Forest Survey of India, 2013

1.2.2 Forest types

The forests in Mizoram are very rich in biodiversity. As many as 6 important forest types have been reported to occur in the state (Forest Survey of India, 2011). These are:-

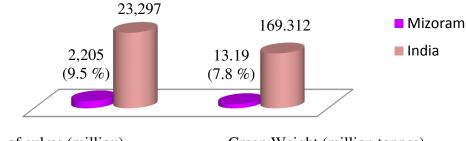
- Cachar Tropical Semi-Evergreen Forest (2B/C2): Mostly found in all districts of the State. The important species are *Dipterocarpusturbinatus*, *D. tuberculatus*, *Terminaliachebula*, *Emblicaspp*, *Careyaarborea etc*.
- Secondary Moist Bamboo Brakes (2/2S1): Dominant species of bamboo like *Melocannabambusoides*, *Dendrocalamushamiltonii etc.* are present.
- **Pioneer Euphorbiaceous Scrub** (**2B/2S1**): It is generally found in degraded forests and exposed lands present on higher slopes and on top of the hills. It has quick growing species like *Macaranga* spp., *Mallotus* spp. etc. This type is found in all districts except Kolasib.
- East Himalayan Moist Mixed Deciduous Forest (3C/C3b) :Schimawallichii, Syzigiumcuminii, Albizziaprocera, Dilleniapentagyna, Artocarpuslakoocha, Terminaliaballerica, T. chebula, Lagerstroemia parviflora, Anthocephalouskadamba etc. are the characteristic species of this type. It is found in all districts of Mizoram.
- East Himalayan Subtropical Wet Hill Forest (8B/C1): Major characteristic species are *Quercusvercus, Q. serrata, Castanopsisspp, Litsea spp. Machilusspp* etc. This forest type is found in Kolasib district.
- Assam Subtropical Pine Forest (9/C2): It is mostly dominated by the species *Pinus kesiya* with other associates like *Quercusspp*, *Schimawallichii*, *Rhododendronspp* etc. This forest type is found mainly in Champhai district of the State.

1.2.3 Bamboo Resources

Nature has endowed Mizoram with valuable Bamboo Forests. Bamboos - Green Gold for the State - are one of the most important natural resources which provide immense economic and environmental benefits for the local people. Bamboos are used for multiple purposes as the culms are straight and strong but light. These are used extensively in house construction particularly in the rural areas, as food, and for making various household items such as stools, benches, kitchen utensils, agricultural implements, and fishing devices. Further, bamboo acts as an effective soil binder protecting the slopes from erosion through its deep and extensive root system.

Bamboos are found abundantly in the State mainly along river banks and on abandoned jhumland. Both the clump forming and the non-clump forming species occur naturally in most parts of the State except on the higher altitudes of its eastern region. A large area of about 9,245 sq. kms., which is 44 percent of the State's geographical area, is covered under "Bamboo Forests" (Forest Survey of India, 2011, p.61). In spite of being small in size, Mizoram contributes significantly to the country's growing stock of bamboos.

Bamboo resources of the country have been assessed by the Forest Survey of India (FSI), Dehradun. As per the India State of Forest Report 2011 (Chapter 6) published by the FSI, total number of culms in recorded forests of Mizoram has been estimated to be 2,205 million as against 23,297 million estimated at the national level. Similarly, the total estimated green weight of bamboo culms has been estimated to be 13,187,000 tonnes for the recorded forests of Mizoram as against 1, 69,312,000 tonnes for the whole country. The growing stock of bamboos in recorded forests of Mizoram as against the same for the whole country has been shown below graphically.



No. of culms (million)

Green Weight (million tonnes)

Area under "pure bamboo brakes" in Mizoram was found the highest among all the States/Union Territories of the country (226 sq.kms.). The dense bamboo forests also cover a large area in the State of Mizoram. The dense bamboo across all the States was found maximum in Arunachal Pradesh (8,681 sq. kms.) followed by Mizoram (6,116 sq.kms.).

The bamboo forests in Mizoram are also rich in bio-diversity. 35 species of bamboos under 9 genera have been reported to grow in the State (E & F Department, 2010). *Melocanna baccifera* (locally called "Mautak"), a non-clump forming species, is the prominent species found in the State. Other dominant species are *Dendrocalamus hamiltonii* (Phulrua), *D. longispathus* (Rawnal), *Bambusa tulda* (Rawthing), *B. longispiculata* (Rawthing chi), and *Arundinaria callosa* (Phar). These species do not occur in large proportions like Mautak but are commercially valuable.

1.2.4 Areas under Notified Forests in the State

The notified forests include (1) Riverine Reserve Forests (1832.50 sq.kms), (2) Innerline Reserved Forests (570 sq. kms.), (3) Roadside Reserve Forests (97.20 sq.kms.), (4) Other Reserve Forests (1963.63 sq. kms.) and (5) Protected Areas (1240.75 sq.kms) under the ownership of the State Government as well as 2562 sq. kms. under the ownership of District Councils. Thus, about 39 percent of the total geographical area (8266.08 sq.kms.) is covered under "notified forests" in the State of Mizoram.

1.2.5 Protected Areas

The Environment and Forest Department, Govt. of Mizoram has taken praiseworthy initiatives for preservation of wildlife by constituting one Tiger Reserve, two National Parks and seven Wildlife Sanctuaries. These are (1) Dampa Tiger Reserve, (2) Murlen National Park, (3) Phawngpui National Park, (4) Ngengpui Wildlife Sanctuary, (5) Lengteng Wildlife Sanctuary, (6) Khawnglung Wildlife Sanctuary, (7) Tawi Wildlife Sanctuary, (8) Thorangtlang Wildlife Sanctuary, (9) Pualreng Wildlife Sanctuary, and (10) Tokalo Wildlife Sanctuary. The area set aside for long-term wildlife conservation is 1728.75 sq. km. which is more than 8 % of the State's geographical area.

The network of protected areas provides healthy habitats for many wild animals, birds, and reptiles. Some important species of mammals found in the State are Tiger, Elephant, Malayan Sun Bear, Wild dog, Brush Tailed Porcupine, Gour, Leopard Cat, Marbled Cat, Golden Cat, Clouded Leopard, Serow etc. The forests of Mizoram also provide habitats for primates such as Assamese Macague, phyare Leaf Monkey, Slow Loris, Pig Tailed Macaque, Stump Tailed Macaque, Rhasus Macaque, and Capped Langur and also for Hoolock Gibbon, the only ape found in India.

Important bird species found in the State are Black Stork, Oriental Darter, Serpent Eagle, Black Eagle, Humes Bartailed Pheasant, Blyth's Tragopan, Green Burmese Peafawl, Grey Peacock, Fufous Patridge, Brushed Patridge, Yellow-legged Button quill etc. The Hornbill species include Great Indian Hornbill, Wreathed Hornbill, Oriental Pied Hornbill, Brown Hornbill, and Rufous-necked Hornbill.

1.3 Bio-geographical importance

The forests in Mizoram are ecologically significant as the region represents an important part of the Indo Myanmar bio-diversity hotspot which is one of the 25 global biodiversity hotspots recognized across the globe. Several hot-spots in the State carrying diverse flora and fauna have been identified for protection. Further, the region is part of biologically distinctive eco-system (Mizoram-Manipur-Kachin Rainforests Eco-region). As such, conservation of the forests in the State is a necessity for arresting the progress of climate change and mitigating the impact of changing climate on the people.

1.4 Expectations of people from the forests

1.4.1 People's Participation in Conservation of the Forests

The State of Mizoram moved from State regulation to people's participation for managing its rich forest wealth by adopting the "Joint Forest Management" (JFM) through a notification issued in 1998. The introduction of JFM established a new mutually-beneficial relationship between the forests, the people and the State. The basic objective for adopting the mechanism of JFM in the State was to encourage active involvement of the local people in enrichment, protection and sustainable management of the forests.

It was envisaged to impart sense of ownership over the forest areas covered under JFM to the villagers. Guidelines for managing the forests with people's participation were framed. As per these guidelines, the local people participating in managing the forests and the State would share the forest produce, which may be extracted from the areas covered under JFM by applying scientific principles of sustainable management.

The organizational structure for managing the forests with constructive participation of the local people, at present, consisted of three levels in the State i.e. (1) State Forest Development Agency (SFDA) at the State level, (2) Forest Development Agencies (FDAs) at the divisional level, and (3) Village Forest Development Committees (VFDCs) at the village level. Eco-Development Committees (EDCs) have been constituted for the villages located near the protected areas. The existing guidelines for JFM included (1) the procedures for constituting SFDA, FDAs and VFDCs/EDCs, (2) their duties and responsibilities, (3) methodology of preparing micro-plans, their effective implementation, and timely monitoring, (4) fund flow mechanism, and (5) disposal of forest produce and sharing of benefits.

For involving the local people in planning, implementation, and monitoring of schemes for forest management, one SFDA, 21 FDAs and 598 VFDCs/EDCs have been constituted in Mizoram. These committees i.e. VFDCs/EDCs have 2, 75,435 members belonging to 80,728 families. Memorandum of Understandings (MoUs) has been signed between SFDA and FDAs and also between various FDAs and VFDCs/EDCs.

Works under centrally sponsored scheme - "National Afforestation Programme" (NAP) - are mainly taken up by VFDCs/EDCs through FDAs. Revised operational guidelines for implementing NAP through JFM were issued in the year 2009 by the Ministry of Environment and Forests, Government of India. These guidelines were aimed at (1) strengthening institutional arrangements for project implementation (capacity building), (2) treatment of highly degraded lands (problem lands), (3) application of latest nursery and plantation techniques, (4) generation of additional sustainable income for members of VFDCs/EDCs through value addition to forest produce and linkage to better markets for forest-based products. The Government of Mizoram has adopted these revised guidelines by issuing notification in March, 2010.

The scheme - NAP - is being implemented effectively in Mizoram through the mechanism of JFM. Suitable tree species have been planted over an area of 57540 ha. under NAP during the period 2003-04 to 2013-14. These plantations are being protected through joint efforts of the local people and the Government agencies. It is expected that enrichment, protection, and sustainable management of the forests through JFM will provide substantial benefits to the local people while contributing significantly to ecological equilibrium and environmental stability.

1.4.2 Stakeholder's expectations

The local people particularly those living nearby forest areas expect sustainable livelihood support from the forests through extraction of permissible yield, value addition to forest produce and marketing of value-added products. They also expect to meet their needs for constructional timber at economical cost from the forests. However, they are also concerned for ecological stability in the region. Expectations of various stakeholders from the Environment and Forests department are given as under:-

	Table 1			
S1.	Name of		Expectations from the Department	
no.	Stakeholder			
1	The Indian	a.	Ecological balance and environmental stability.	
	citizens living in	b.	Bonafide forest-based needs - constructional timber, fuel wood, and	
	Mizoram		fodder – as per the Mizoram Forest Act,1955.	
	including the	c.	Constructive participation in afforestation, enrichment, and protection of	
	indigenous		forests.	
	people.	d.	Easy access to information on uses and economic benefits of the forest	
			products including Non-Timber Forest Products (NTFPs) and Medicinal	
			Plants.	
		e.	Availability of technical know-how as well as other facilities for raising	

			private plantations.
2	The State	a.	Effective implementation of the planned schemes achieving the desired
	Government		outcomes.
		b.	Satisfaction of the local people.
3	The Government	a.	Conservation of environment and forestry resources as envisaged in the
	of India		National Forest Policy, 1988.
		b.	Balance between conservation and development by implementing the
			provisions of the Forest (conservation) Act, 1980 as well as other National
			and State acts and rules related to management of the forests and the
			wildlife.
4	The forest	a.	Healthy working conditions.
	officials working	b.	Adequate facilities at par with our counterparts in other
	in the State		departments/services.
		c.	Awards and recognition for good works.
5	Non-Government	a.	Increase in forest cover.
	Organizations	b.	Enrichment and protection of the existing forests.
	(NGOs)	c.	Preservation of wildlife by creating and maintaining healthy habitats for
			them.
		d.	Generating awareness towards the importance of forests and wildlife.
		e.	Eliciting active participation of public in conservation and protection
			efforts.
6.	Private	a.	Technical knowhow.
	tree/bamboo	b.	Logistic and financial support for raising and managing the plantations.
	growers	c.	Mechanism to facilitate harvesting and transportation of timber and
			bamboos.

Accordingly, the Department of Environment & Forests, Government of Mizoram is committed to provide a variety of services, both tangible as well as intangible, to the citizens by scientifically managing the rich forest cover existing in the State. The tangible services include (1) arranging forest products of economic importance such as constructional timber, fodder, fuel-wood, sand, gravels etc. at reasonable costs, (2) offering gainful employment while implementing various schemes for enrichment and protection of the forests, (3) creating opportunities for additional income through the mechanism of "Joint Forest Management", (4) disseminating information on importance and economic benefits of the forests including Non-Timber Forest Products and medicinal plants, (5) building and maintaining eco-friendly recreation sites and trails, (6) making technical know-how available for raising and managing private forests/plantations, and (7) assisting private tree-growers in silvicultural harvesting and transporting of timber inside as well as outside the State. The intangible services include (1) stabilizing the climate, (2) enriching the soil fertility, (3) recharging ground water, (4) regulating the water flow, and (5) offsetting the air pollution.

1.5 Objectives for GIM implementation

Although the identified landscape (L-1) - the entire state of Mizoram - has a large area under forest cover, the forests are not rich in quality. About 67.70 % of the forest cover is open, having very less canopy density. A large extent of open forest, particularly in the hilly terrain, can have devastating impacts on the normal structure and the delicate interdependencies of diverse flora and fauna in the forest ecosystem. The situation is likely to be further aggravated in Mizoram by the prevalence of shifting cultivation and other biotic interferences.

Efforts to enrich and protect the forests are being taken up by effectively implementing various schemes such as National Afforestation Programme, Integrated Forest Management, Thirteen Finance Commission Grants-in-Aid, National Bamboo Mission, New Land Use Policy etc. The local people are being encouraged to shift from shifting cultivation to settled agriculture by providing them technical and financial assistance.

The treatments being done to the landscape coupled with the proposed interventions under Green India Mission (GIM) will save the valuable hilly ecosystem of the State from deterioration. It is expected that implementation of proposed strategies will enhance the quality of existing forests, ecologically re-stock wastelands, improve eco-system services, increase forest-based livelihood income and augment annual CO_2 Sequestration.

1.6 Scope of implementing planned interventions under GIM

The GIM, which aims at providing sustainable livelihood support to the people in a stable ecosystem, would be implemented initially in 51 villages of eight identified L2 landscapes. These villages form compact blocks for treatment in five Forest divisions/4 districts of the State. It is further planned to extend the mission in other parts of the State. It is to mention here that, the entire State has been identified as vulnerable i.e L1 landscape

Chapter 2 Details of Identified Landscapes

2.1 Criteria for selection of L1 Landscape

Criteria, which were adopted for identification of L1 landscape, are given below:-

	Table 2				
		Details of Criteria			
Item Criteria		Details	Details of the source of data, maps etc. appended		
1.Forestcoveranddegradation	1a) Forest cover	19,277 sq. kms. (91.44% of the State's geographical area).	India State of Forest Report 2013, Forest Survey of India, Dehradun.		
	1b) Bio- diversity	The State is rich in Bio-diversity, having six major forest types, namely i) Cachar Tropical Semi-Evergreen Forest, ii) Secondary Moist Bamboo Brakes, iii) Pioneer Euphorbiaceous Scrub, iv) East Himalayan Moist Mixed Deciduous Forest, v) East Himalayan Subtropical Wet Hill Forest, vi) Assam Subtropical Pine Forest.	India Forest Atlas prepared by Forest Survey of India, Dehradun		
	1c) Wastelands	6021.14 sq km (28.56% of the State's total geographical area) is wasteland including jhumland.	Wastelands Atlas of India, 2010.		
vulnerability maps and		Although the State is having a large area under forest cover, the forests are not good in quality. The State has 13,016 sq km open forest which is 67.70% of the total forest cover and 61.74% of the total geographical area. It is expected that a large extent of open forests, particularly in the hilly terrain, may adversely affect not only the forest eco-system but adjoining areas as well. The situation is likely to be further	As indicated above in column 1.		

		accurated in Minourse by the survey law of	
		aggravated in Mizoram by the prevalence of	
		shifting cultivation and other biotic	
		interferences.	
		Effect of climate change in the State is (1)	(1) Programme Design
		irregular behavior of rainfall, (2) rise in mean	Document for North
		maximum and mean minimum temperatures,	East Climate Change
		(3) gradual and progressive increase in	Adaptation Programme
		humidity, and (4) increased frequency of	presented to KfW
		extreme climate events (heavy rainfall, flash	Germany, DoNER, and
		floods, etc.). Forests are highly vulnerable to	State Govts. (2) Field
		these changes in climatic conditions. Impact of	observations by Forest
		climate change on the forests coupled with	Officers.
		biotic interferences is characterized by (1)	
		degradation (a large extent of open forests), (2)	
		loss of biodiversity, (3) increased incidence of	
		invasive species, and (4) loss of forest	
		environmental functions (water conservation,	
		soil conservation, flood control etc.).	
3.Vulnerable	3a) ST/SC		
Population / Communities	Total		
Communities	population,		2011 C 14
	ratio	The majority of the population in the State -	
	3b)	over 95% - belongs to STs.	Govt. of India.
	Scheduled		
	areas		

2.2 Importance of L1 Landscape

Based upon the criteria given in para 2.2, the entire State of Mizoram (Area: 21,081 sq. km.) has been taken as L1 Landscape. Proper treatment of the landscape in the State would bring ecological security in the region and would also contribute significantly to stabilize the changing climate. The bio-geographical importance of the L1 landscape has been given in para 1.3.

2.3 Criteria for selecting L2 Landscape

Operational units (L2 level) have been identified based mainly on five indicators which are (1) extent of open forest, (2) dependency of the local population on the forests i.e. biotic pressure, (3) drainage

Table 3							
			Details of the				
	Criteria	Details	Source of data –				
			Maps etc appended				
Extent of open	Extent of degraded	Aizawl, Champhai, Lawngtlai, Lunglei,	FSI, Dehradun				
forests	forests i.e. forests	and Mamit districts have larger area					
	having very less	under open forests.					
	canopy density						
Forest	Forest areas (sq.	Aizawl, Champhai, Kolasib, and	Data for forest				
Dependence	kms.) per 1000	Serchhip districts have less forest areas	areas: FSI data and				
	population	per 1000 population. Therefore, it is	for population:				
		expected that these districts may witness	census data.				
		more biotic pressure on the forests.					
Drainage	Catchment areas of	After identifying the divisions on the	Maps obtained				
Pattern	major and important	basis of first two criteria, the operational	from MIRSAC				
	rivers	units have been identified within these	(Mizoram Remote				
		divisions on the basis of these two	Sensing				
		criteria.	Application				
			Centre)				
Prevalence of	Areas including		Maps obtained				
shifting	Abandoned		from MIRSAC				
cultivation	Jhumland and		(Mizoram Remote				
	Current Jhumland		Sensing				
			Application				
			Centre)				
Formation of	All identified L2	Aizawl, Champhai, Darlawn, Kolasib	Map of the State.				
Compact	landscapes to form a	and Thenzawl divisions form a compact					
Block	compact block for	block in the State.					
	better outcomes.						

pattern, (4) prevalence of shifting cultivation and (5) compact block for treatment under GIM. The criteria for selection of L2 Landscapes are given below in detail:

2.4 Reasons for selecting this L2 landscape among other possible L2 landscapes within L1:

A meeting (brainstorming session) of senior forest officers was held in March, 2012 to discuss various issues and formulate suitable strategies for the preparation of Bridge Plan/Perspective Plan under GIM. The views presented by the senior officers in the meeting are summarized below:

- The operational units should be from the districts which satisfy either of the two criteria i.e. extent of open forests or biotic pressure on the forests. Further, this unit should be strategically important for i) treatment and management of catchment areas and ii) engagement of the local people in settled agriculture or other sustainable livelihood options i.e weaning them away from jhum cultivation.
- The operational units, so selected, should form a compact block.
- The forest divisions, where activities similar to those proposed under GIM (KfW sponsored North East Climate Change Adaptation Programme) are being carried out, may not be taken up as operational units.
- Aizawl city, which carries maximum concentration of population (26% of the State's population), has the significant impact on the climate and the eco-system in the State. Therefore, forest-based interventions inside and outside the city of Aizawl may be taken up under GIM.

Considering the above views, it was decided in the meeting that 8 nos. of operational units in 5 forest divisions namely Darlawn, Champhai, Thenzawl, Kolasib, and Aizawl (for Aizawl division limited to inside and outside Aizawl city) may be taken in the initial five years of GIM. Other areas/divisions may be taken up subsequently under GIM.

The proposed landscape, Dumkhel ram lies across the inter-range boundary of Kolasib and Bairabi Forest Ranges in Kolasib forest division. The landscape consists of open and degraded forests, both Government and privately owned. There are many current and abandoned jhumlands as well. Further, it forms the catchment area of Tuichhuahen river which is the only source of water for Kolasib, one of the largest towns in the State. The treatments under Green India Mission would ensure continuous and uninterrupted supply of water for Kolasib town. As such, Dumkhel Ram was selected as L2 landscape for treatment under GIM for Kolasib & Bairabi.

2.5 Importance of L2 Landscape : Kolasib & Bairabi (Dumkhel Ram)

The identified landscape lies in the catchment area of Tuichhuahen river, the source of water supply to Kolasib town. Treatment of this landscape under GIM would ensure regular water supply to 46,600 inhabitants (2011 census) living in Kolasib town. Well-stocked good-quality forests in "Dumkhel Ram" landscape will also stabilize water flow in another major river of the region i.e. Dumkhel river flowing in north-west direction.

2.6 Criteria for selection of L3 landscape

All villages namely New Diakkawn, Thingdawl, Tumpui, Bualpui, Dilzau, Pangbal Kawn and Meidum having interests in "Dumkhel Ram" have been taken as "Working Units" i.e. L3 landscape-Kolasib & Bairabi.

2.7 Importance of L3 landscape (New Diakkawn Ram)

The area under Village Council of New Diakkawn is one of the seven L3 landscapes (working units) identified for coverage in L2 landscape "Kolasib & Bairabi-Dumkhel Ram". The New Diakkawn village was established around the year 1895. It has the population of 2705 with 430 households (110 households under BPL category). The villagers are quite educated, literacy rate being 97.89%.

The total geographical area of this L3 landscape is 12.273 sq. km. In the past, most of the land was covered with well-stocked good-quality forests. However, the forests have suffered serious depletion and degradation due to traditional practice of shifting cultivation and uncontrolled felling of tress. As a result, presently, most of the areas are either wastelands or forests having very less canopy density i.e. less than 10%. It is expected that execution of well-planned strategies under GIM may result into ecological stability in the region.

Further, this L3 landscape controls water flow in several streams/rivers such as Tuichhuahen lui, Bulung lui and Meidum lui. These water-bodies are natural sources of water for Kolasib, Meidum Dilzau and other nearby villages. The productivity of agricultural crops also depends upon water flow in these streams/rivers.

2.8 Extent of L1 landscape

Name of the L1 landscape:The entire State of Mizoram (map enclosed as annexure 'IA')Location of the landscape:State:MizoramDistrict:All DistrictsForest Division:All Forest Divisions

Extent (area, boundaries, geo-references) :

- Geographical area of the State is 21,087 sq. kms.
- The State shares its boundary with Assam and Manipur on the North, Myanmar on the East and the South, Tripura and Bangladesh on the West.
- It is located between 21°56' and 24°31' N latitude and 92°16' and 93°26' E longitude.

2.9 Extent of L2 landscape

Name of L2 landscape	: Dumkhel Ram (map enclosed as annexure '1B')
Location of the L2 Landscape	: State: Mizoram, District: Kolasib, Division: Kolasib
Geo references of the L2 Landscape	: It is located between 24°11'46" N & 92°40'46" E and 24°09"20" N & 92°38"16" E
Area details of the landscape	: (maps at Annexure X to XV)
Open forests	: 84.256 sq. km.
Moderately dense	: 23.39 sq. km.
Dense forests	: 0.00 sq. km.
Scrub lands	: 0.00 sq. km.
WRC	: 5.831 sq. km
Horticulture	: 7.037 sq. km
Other areas	: 47.566 sq. km.
Total area	: 168.08 sq. km.

2.10 Extent and other features of L3 landscape (New Diakkawn)

	Table 4
Location	The L3 Landscape (New Diakkawn) is one of the Village Council under Kolasib town
	district headquarter of Kolasib district, and about 87 kms. from Aizawl, the State
	capital.
GPS	24 ⁰ 11.50' 35'' N & 92 ⁰ 37.45'55''E , 24 ⁰ 37.15'34''N & 92 ⁰ 11.20'50.''E
coordinates:	24 [°] 40'10'' N & 92 [°] 11.20'50''E, 24 [°] 40.49'34''N & 92 [°] 11.50'12''E
Area	12.273 sq. kms.
Forest cover	Moderately dense forests – Nil sq. kms.
	Open forests – 11.11 sq. kms.
	Non-forests - 1.16 sq. kms.
Forest type	Cachar Tropical Semi Evergreen Forest (2B/C2) mixed with bamboo breaks.
	Important species found in the locality are Dipterocarpus turbinatus, D tuberculatus,
	Terminalia chebula, Emblica spps, Careya arorea etc. Dominant bamboo species are
	Melocanna baccifera, Dendrocalamus hamiltonii, Bambusa tulda, D longispathus etc
Soil quality	Three soil orders i.e. ultisols, inceptisols and entisols are found in the project area.
	The surface soil textures are loam to clay loam with clay content increasing with
	depth in the hills whereas in the valleys it is mostly sandy loam to sandy clay loams.
	The soils are acidic in nature with pH values ranging from 4 to 5.6 The soils in the
	hills are strongly acidic in reaction, whereas, the soils in alluvial deposits are less
	acidic in nature. The percentage of organic carbon content is medium (0.65 %).

Topography	Some portion of the land is undulating with moderate slope i.e. 15° to 25°, .The
	landscape consists of some perennial streams and hence, most parts of the land are
	comparatively leveled area with an altitude of 800-850 mts. above MSL.

2.11 Profile of L3 Landscape (New Diakkawn)

2.11.1 Population and Workers Population

The population data of New Diakkawn is given below in the following table:

				Table 5A
No of	Popu	lation	Children below	Total
Households	Adult Male	Adult Female	6yrs	
430	1250	1020	435	2705

The average family size is 6 to 7 persons per household.

Source: Census data 2011

2.11.2 Social structure

The social structure of the population at New Diakkawn village is as under:-

				Table 6
General	Scheduled Caste	Scheduled Tribe	OBC	Total
Nil	_	2705	Nil	2705

2.11.3 Wealth Ranking

		Table 7
Sl. No.	Classification	No of families
1	Rich (Families having RCC building or motor car whose annual income exceeds Rs 5,00,000.00	52
2	Middle class (Families whose annual income is less than Rs 5,00,000.00 but above BPL)	268
3	Poor (Families who are listed as BPL by the Govt.)	110

Source : Actual field verification

2.11.4 No of Educational institutions

							Table 8
Ī	Anganwadi	Primary school	Middle school	High school	HSS	Colleges	Others
	2	2	1	Nil	Nil	Nil	Nil

Source : Field verification

2.11.5 Enrolment in and outside the locality (as on 15th Aug 2014)

	Table 9										
Anganwadi	Primary school	Middle school	High school	Colleges	Others						
214	231	209	153	75	34						

Source : Field verification

2.11.6 Literacy percentage

Male – 98.25%, Female – 97.54%, Overall – 97.89 % Soure: Field verification

2.11.7 Occupation

	Table 10									
Sl. No.	Category of Occupation	No of families								
1	Govt. service	95								
2	Jhumming (Shifting cultivation)	75								
3	Horticulture including WRC	93								
4	Business/Petty trade	77								
5	WRC	52								
6	Daily laborers	22								
7	Others	16								

Source : Field verification

2.11.8 Livestock population

					Table 11
Cattle	Goat	Sheep	Pig	Poultry	Other
12	8	NIL	124	220	-

Source: Field verification

2.11.9 Agriculture practices

Category	Current Jhumming	Abandoned Jhumming	WRC
Area (ha)	76.3	26.6	45.1

Source: Existing Land Use Map

2.11.10 Cropping pattern

				Table 13
Sl No	Crop	Time of sowing	Time of harvest	% of agri. area covered
1	Rice	April-May	Sept- Nov	20
2	Maize	March-May-	July-Aug	10
3	Mustard	Nov-Dec	Jan-Feb	5

4	Orange	May-June	Oct-Dec	10
5	Arecanut	May-June	March-April	20
6	Pumpkin	March-April	June	5
7	Banana	March-April	Jan-Dec	10
8	Calocasia (Bal)	April	Nov-Dec	5
9	Bean	Nov-Dec	Jan-Feb	10

2.11.11 Water Resource

There are three main sources of water for the people living in New Diakkawn village i.e. water connection from Public Health Engineering (PHE) department, water collection points connected to perennial fountains and rain water harvesting. The PHE department provides house-to- house connection in this VC jurisdiction. Rain water harvesting is being done by limited well-to-do families only.

2.11.12 Energy Consumption Pattern

The village has already been electrified by Power & Electricity department of the State. In addition, energy requirement is met from LPG connections, kerosene oil and fuel-wood collected from the Jhumlands and the surrounding forests.

2.11.13 Demand for fuel-wood

The demand for fuel wood has been worked out based upon inputs received from NGOs,VC members and other villagers. The annual demand is as under:-

Average annual demand/household	No of households	Total annual demand of the village
0.6 cum	430	258cum

The supply as per the carrying capacity of existing forest in L3 (New Diakkawn) is expected as under:-

- A Total forest area: 1111.0Ha
- B GS/Ha as per Working plan Survey Report: 53.38 cum
- C Total GS: 59,305.66 cum
- D Annual Yield: 1186.11 cum
- E Fuel-wood availability assuming 30% of Annual Yield as fuel wood: 355.83 cum

2.11.14 Existing infrastructure

Anganwadi Centre (2nos.), Primary School (1), Middle School (1nos.), High School (nil), Community Hall (1 no.), Mini-Market (1no.), Mini-Playground (1no.), Medical (1 Health Sub-Centre) and Govt. offices – I no (Police Out Post), Library- 1no.

Local Institutions / Organizations: - Village Council, YMA (1 Branch), MUP (1unit), MHIP (1 Branch) and Games & Sports Association.

2.11.15 **Problems and Priority**

Through PRA exercise, problems being faced by the villagers could be ascertained. These are lack of proper medical facility, link road to agricultural fields, incomplete net-work of approach roads with side drain, Proper maintenance of Cemetery, in-sufficient supply of LPG cylinders and Repair of Public water points.

								Table 14
S1.		Ро	pulatio	n	Poverty	Forest	Drivers of	JFMCs/ other
No.	Village	Total	SC	ST	(BPL families)	dependency	degradation	institutions of Gram Sabha
1	New Diakkawn	2705	0	2705	110	Shifting cultivation, fuel- wood, timber for construction of houses, furniture, Poles & bamboo for domestic use etc.	Dealt in para 2.15	Village Forest Development Committee (VFDC) is active in all these villages.

2.12 Demographic statistics of L2 Landscape

Source: Census data 2011

2.13 Present interventions for addressing livelihood needs (forestry as well as non-forestry sector) and promoting sustainable forest development

									Table 15
Sr.	Name	of	Implementing	Forestry	and	Other	Details	of	Villages
No	Scheme		Agency	Wildlife		components like	livelihood		covered
				activities		SMC	component		
1	NLUP	(New	Different line	Plantation	of	Construction of	Provision of		New

	Land Use Policy)	department s such as-Soil Conservation , Horticulture, Agriculture,F orest,Sericult ure,Fisheries, Indusries,AH & Vety. etc.	bamboos and other indigenous species	terracing, trenching, Rain water harvesting structures	technical and sustainable livelihood support so as to wean them away from the traditional practice of jhumming	Diakkawn
2	NAP (National Afforestation Programme)	FDA Kolasib/ concerned VFDC	Sustainable management of forests with people's participation. Plantation is carried out on degraded lands	Construction of contour trenching, Check-dams, inspection path etc	Livelihood generation through direct employment, sustainable extraction of forest produce, value addition and marketing	New Diakkawn
3	NBM(Nationa l Bamboo Mission)	FDA Kolasib/ concerned VFDC	Plantation of bamboo spp, Training to farmers to increase crop productivity		Livelihood support is expected from extraction of bamboo &marketing of value added products	New Diakkawn
4	MIDH(Mission for Integrated Development of Horticulture MGNREGS	DHO Kolasib DRDA,	Rubber plantation Roadside	Rain water harvesting structures Terracing	Technical &Financial support to promising farmers only. Provision of	New Diakkawn New

		Kolasib Dist	plantation	Check-dam,	100 days	Diakkawn
			1	Retaining wall,	employment	
				contour	for every	
				trenching,	willing	
				Public water	household	
				point, Rain		
				water		
				harvesting		
				structures		
6	IWMP(Integr	DRDA	Rubber	Terracing	Support to	New
	ated	Kolasib,	plantation	Check-dam,	SHGs	Diakkawn
	Watershed	BDO		contour &		
	Management	Thingdawl		staggered		
	Prgrramme)			trenching,		
				Public water		
				point, Rain		
				water		
				harvesting		
				structures Farm		
				ponds, Fish		
				ponds		
7	RKVY(Rastri	DHO(Horti),	Planting of	Terracing(WRC	Provision of	Individual
	a Krishi	DAO(Agri),D	Mulberry	-II),Rain water	financial and	s/cluster
	Vikaas	FDO(Fishery	cuttings under	harvesting unit,	material	selected
	Yojona)	DO(Sericultur	sericulture,	Fish/Farm	support to	from
		e) Kolasib dist	Oil-palm	ponds	selected	village
			plantation		promising	
			under		farmers.	
			Agriculture			
			(OPAE)			
8	RADP(Rainfe	DAO Kolasib	Shift from	Terracing,	Technical and	Selected
	d Area		shifting	water	financial	cluster
	Development		cultivation to	harvesting	support to	&Individu
	Programme)		settled	structure	vulnerable	als

			cultivation(WR		families	
			C-II)			
9	IAY(Indira	DRDA,	Nil	Nil	Construction	New
	Gandhi	Kolasib			of houses for	Diakkawn
	Awaas				the poor	
	Yojona)					

2.14 Gaps/Strategies identified under GIM

					Table 16
S1.	Village	Forestry activities proposed	Other	Livelihood	Any others
No.			activities like	activities	
			SMC	proposed	
1		1)Enhancement of quality in	Interventions	Community	Promoting
		existing forests(with limited	in catchment	livelihood	alternate
		root stock and open blanks) 2)Ecosystem restoration	areas of	enhancemen	energy
	New	(Rehabilitation of Shifting	hydrological	t.	sources
	Diakkawn	cultivation)	importance		
		3)Agro forestry			
		4)Social forestry			
		5)Support to community			
		conserved areas			

2.15 Drivers of degradation and deterioration in the forest eco-system

		Table 17
Sl. No.	Village	Drivers of degradation
1		Illicit felling for fuel-wood, fodder, timber etc, Traditional practice of
	New	shifting cultivation, Lack of strategic and participatory land-use planning,
	Diakkawn	excessive population pressure on the forests for NTFPs., inadequate
		scientific management of watersheds including rainwater harvesting.

Chapter 3

Process undertaken for preparation of Micro-Plan/Sub-Landscape Plan

3.1 Constitution of Micro-Plan Working Group

A meeting was held with members/representatives of Village Council for New Diakkawn village, conservation-oriented NGOs (YMA, MHIP and MUP), forest officers and other prominent citizens of the village on 6th.10.2014. As per recommendations made in the meeting, a Micro-Plan Working Group was constituted for facilitating preparation of micro-plan for New Diakkawn Landscape (L3). The constitution of the group is as under:-

Leader:	Hmingdailova, Forester, Kolasib Range				
Members:	1) R Zohnuna H	President, New Diakkawn VC			
	2) Timothy Lalchhuanawma YMA representativ				
	3) Lalthanzuali	MHIP representative			
	4) Thangneihkama	MUP representative			
	5) K Lianzuala	VFDC representative			

A questionnaire was designed by the committee for collection of data on (1) demographic status, (2) socio-economic conditions of the villagers, (3) resources available in the village etc. The questionnaire was designed to facilitate (1) assessment of current land use pattern and formulation of proposed land use pattern, (2) participatory resource-based land-use planning, (3) identification of livelihood needs, (4) planning of activities for sustainable livelihood support to the people and ecological stability in the region. The members of the Working Group also visited the area covered under L3 landscape.

3.2 Participatory Rural Appraisal (PRA)

PRA exercise including group discussion, experience sharing, one to one discussion with the villagers etc. was conducted to promote people's participation in project planning, implementation and monitoring. Information on various issues concerning GIM implementation was explained to the villagers through interpretation of maps and other documents. Resource mapping, Preparation of existing land use map, seasonal Calendar (Cropping season) and wealth ranking exercise were completed during PRA activities. The principle of participatory land use planning was adopted with available technical inputs and in consultation with all the stakeholders including the local public, proposed land used map was prepared. The proposed land used map reflects the area where interventions are to be planned and implemented.

3.3 Households survey

House-hold survey was carried out in the village covering almost all the families. A structured questionnaire was prepared for collecting information on dependency of every family on the forests as well as other required data.

3.4 Transect Walk

Transect walk was done by the Micro-plan Working Group along-with some local people and VFDC members. During transect walk, inputs were obtained from the field for deciding upon the suitability of the proposed land-use. GPS reading of the prominent sites/spots visited by the Working group were also recorded.

3.5 Details of awareness programmes, meetings and work-shops along-with the resolutions and other outcomes

				Table 18
Work-shop/	Category	Major outcomes	Details of facilitators	Whether
neetings	(stakeholders		engaged	resolutions /
State Level/	and no. of			photographs
_andscape/	participants)			enclosed
Villages				
covered				
State/L1	Representative	Suggestions were	Principal Secretary,	Minutes of
evel(State		mainly given for	Environment and	the meeting
Mission	,reputed	strengthening	Forest	enclosed at
Directorate)		institutions responsible	Govt of Mizoram	Annexure –
	institutions	for GIM implementation		IV
		in the State		
District/L2 evel	Representatives of VFDCs,VCs, and NGOs such as YMAs,MHIPs & MUP. Total No of participants:-66	More trainings are to be given at all levels.GIM guidelines in local dialect be distributed to locals/trainees.	1)ShriDr SB Singh Joint Director ICAR Research Complex for NEH Region, Mizoram Centre Kolasib Ph-03837-220041 Fax-03837-220560 2)Shri Lalrosanga Khiangte Prog Coordinator KVK,Kolasib Tala Fay: 02827	Minutes of the meeting enclosed at Annexure – V
	neetings tate Level/ andscape/ Villages overed tate/L1 evel(State Aission Directorate)	neetings (stakeholders tate Level/ and no. of participants) /illages overed tate/L1 Representative of all line departments /reputed academic and technical institutions No of participants-33 District/L2 evel Representatives of VFDCs,VCs, and NGOs such as YMAs,MHIPs & MUP. Total No of	neetings(stakeholderstate Level/and no. ofaandscape/participants)/'illagesparticipants)overedtate/L1Representative of all line departments ,reputed academic and technical institutionsSuggestions were mainly given for strengthening institutions responsible for GIM implementation in the StateDistrict/L2 evelRepresentatives of VFDCs,VCs, and NGOs such as YMAs,MHIPs & MUP. Total No ofMore trainings are to be given at all levels.GIM guidelines in local dialect be distributed to locals/trainees.	neetings(stakeholders (stakeholders tate Level/ and no. of participants)engagedtate Level/ andscape/ villagesand no. of participants)engagedtate/L1 evel(State departments , reputed academic and technical institutions No of participants-33Suggestions were mainly given for strengthening institutions responsible for GIM implementation in the StatePrincipal Secretary, Environment and Forest Govt of MizoramDistrict/L2 evelRepresentatives of VFDCs,VCs, and NGOs such as YMAs,MHIPs & MUP. Total No of participants:-66More trainings are to be given at all levels.GIM guidelines in local dialect be distributed to locals/trainees.1)ShriDr SB Singh Joint Director ICAR Research Complex for NEH Region, Mizoram Centre Kolasib Ph-03837-220041

3	Village/L3	Representatives		1)ShriDr SB Singh	Minutes of
	level at	of VFDCs,VCs,		Joint Director	the meeting
	iever at	and NGOs such	-do-	ICAR Research	enclosed at
	Kolasib	as YMAs,MHIPs		Complex for NEH	Annexure –
		& MUP		Region,	VII
		attended.		Mizoram Centre	
		Total no of		Kolasib	
		participants -		Ph-03837-220041	
		90.		Fax-03837-220560	
				2)Shri Lalrosanga	
				Khiangte	
				Prog Coordinator	
				KVK,Kolasib	
				Tele Fax: 03837-	
				220360	

3.6 Details of facilitators engaged in the process, institutions who prepared the micro-plans and approval of the Gram-Sabha

					Table 19	
S1.		Institution who	Details of	Approval of	Details of facilitators	
No	Village	prepared	participation of all	Gram Sabha	engaged	
110	village	Micro-Plan	stakeholders/depart			
•		JFMC/Others	ments			
		Kolasib FDA&	Representatives of	Approved by	1)ShriDr SB Singh	
		Microplan	Govt departments,Cons	Village Council,	Joint Director ICAR Research	
		Working	ervation oriented	New Diakkawn.	Complex for NEH	
		Group as in	NGOs,VFDCs,VCs, and local public.	Approval letter	Region, Mizoram Centre	
	New	para 3.1	and local public.	enclosed at	Kolasib	
1	Diakkawn			Annexure-IX	Ph-03837-220041	
					Fax-03837-220560	
					2)Shri Lalrosanga	
					Khiangte Drog Coordinator	
					Prog Coordinator KVK,Kolasib	
					Fax: 03837-220360	

3.7 Details of involvement of district level committee in preparation of perspective plan especially of convergence mechanism ; Enclosed

3.8 Details of the meetings/consultations with other departments in finalizing the convergence issues and perspective plan. - Enclosed

Chapter 4

Activities proposed to be undertaken in the Sub-landscape (L2)

4.1 Current Land Use pattern

Current land use pattern has been mapped with interpretation of satellite imageries and field verification of interpreted data. The details are as under:-

	Table19A						
S1.	Land Use category	Area (Sq.	% of total	Remarks			
No.		kms.)	area				
1	Current Jhum area	0.763	0.09				
2	Abandoned Jhum area	0.266	0.03				
3	Horticulture	1.027	0.12				
4	RF(moderately dense)	nil					
5	RF(Open forest)	nil					
6	VC area (Moderately dense forest)	Nil					
7	VC area(Open forest)	8.305	67.66				
8	Private land(Moderately dense)	nil					
9	Private land(Open forest)	1.312	0.16				
10	WRC	0.451	0.055				
11	Community Reserve (Moderately dense)	Nil					
12	Community Reserve (Open forest)	Nil					
13	Fishery	nil					
14	Govt plantation	0.149	0.018				
	TOTAL	12.273					

New Diakkawn village:

Source:GIS cell,E&F dept,Mizoram

4.2 Proposed Land Use Pattern:

After careful scrutiny of current land use pattern, needs assessment and consultation with stakeholders, the following land use model is designed/proposed:

New Diakkawn village:

	Table19B				
S1.	Proposed land-use	Area (sq. km.)	% of total	Remarks	

No.			area	
1	Working area	12.27	-	
2	Rehabilitation of Shifting Cultivation	0.64	5.22	Sub-mission 2: Rehabilitation of shifting cultivation areas
3	Agro forestry & Social forestry: i) Farmers' Land ii) Highway/Roadside Plantation	0.44 0.12	3.58 0.98	Submission 4- a) Farmers land including current fallows 2. Highway/Rural roads
4	Community Land: i) Moderately Dense Forest cover showing degradation. ii) Eco-restoration of degraded open forest iii) Enhancing Forest Cover in Urban & Peri-Urban Areas	0.59 1.41 0.20	4.81 11.49 1.63	1.Sub mission 1: Enhancing Forest cover and improving ecosystem a & b 2. Sub-misson 3: Enhancing forest cover in Urban & Peri-Urban areas (including institutional land).
5	Private land & Community land	8.87	72.29	Submission 4- 1.Farmers land including current fallows 2Sub mission 1: Enhancing Forest cover and improving ecosystem a & b
6	Settlement Area	nil	-	

4.3 Treatments proposed

The following prescriptions (sub-missions/categories) are proposed to achieve the objectives under GIM through sustainable use of available natural resources:-

Submissions:

	Table19C					
Submission/category						
S1.	Village	Enhance quality	Ecosystem restoration	Agro forestry	Social forestry	
No.	vmage	of forest cover	& increase in forest			
			cover			
1	New	Stock	Plantation of	Raising of	Afforestation	

Diakkawn	enrichment	indigenous spp to	plantation	activities with
	planting to	improve ecosystem and	alongwith agri-	active people's
	increase the	provisional services	crops for	participation of
	quality of	(AR)	generating	locals along the
	existing forests		additional	roads, in school
	(ANR)		income sources	premises etc

Cross-cutting interventions:

	Table19D							
		Cross-cutting interventions						
S1.	Village	Alternate	Livelihood	Community	Watershed			
No.	vinage	energy	enhancement	conserved areas and	management			
		sources	Community	sacred groves				
		Provision of	Support to forest based	Technical and	Rainwater			
		Solar	cottage industries for	financial assistance	harvesting,			
		devices,	value addition of forest	to village	construction of			
	New	LPG	produce and marketing	community as well	check dams/			
1		connection	of value added products	as conservation	retaining wall, soil			
	Diakkawn	to BPL	and	oriented NGOs for	and water			
		families	Support to eco-tourism	sustainable	conservation			
			activities	management of	measures			
				forests				

4.4 Objectives

Short term objectives

- Identification and arrest of drivers responsible for eco-system degradation
- Water-shed management ridge to valley approach
- Increase in fuel-wood and fodder availability
- Employment generation
- Awareness for sustainable management of natural resources

Long term objectives

- Sustainable livelihood support to the people
- Ecological stability in the region

4.5 Village-wise details of submissions proposed for treatment (Action plan)

Name of Village: Tumpui.

	Table 20								
SI No	Submission	Categories	Туре	Propose d area	Proposed Cost (Rs in Lakh)	Livelihood activities proposed based on Micro-plan			
	Sub Mission 1: Enhancing	a) Moderately dense forest cover, but showing degradation	ANR (Without Plantation)	55 ha	22.275 @ Rs 40,500/ha	Support to			
1	quality of forest cover and improving	b) Eco-	200 plants/Ha (Type A)	70 ha	30.240 @ Rs 43,200/ha	Cottage Industries @ 17% of			
	ecosystem services	restoration of	1100 plants/Ha (Type B)	-	-	Mission cost			
			2500 plants/Ha (Type C)	70 ha	94.50 @ Rs 135,000/ha				
2	Sub Mission 2: Ecosystem restoration and increase in forest cover	a) Rehabilitation of Shifting Cultivation Areas	1100 plants/Ha	62 ha	50.22 @ Rs 81,000/ha				
3	Sub Mission 3: Enhancing tree cover in Urban & Peri-urban areas (including institutional lands)	a) Plantation in Urban & Peri- urban areas	2500 plants/Ha	15 ha	40.50 @ Rs 270,000/ha				
4	Sub Mission 4: Agro-Forestry and Social	a) Farmer's land including current fallow	Farmers Land	43 ha	23.22 @ Rs54,000/ha				
	Forestry (increasing biomass &	c) Highways/Rural roads/Canals/	Roads/Canal/ Tank Bunds	12 ha	22.68 @ Rs189,000/h				

creating carbon sink)	Tank Bunds			a	
		Total	327 ha	Rs 283.635	Rs 48.218

4.6 Treatment area under the landscape unit

			Table 2	21A		
Sl. No	Sub-mission	Category	Proposed area	Proposed cost (Rs in lakhs)	Livelihood activities	Proposed cost (Rs in lakhs
1	2	3	4	5	6	7
1	Enhancing quality of existing	With limited root stocks and open blanks: ANR	55	22.275 @ Rs 40,500/ha	Financial support to forest based	
	forest cover (ANR)	b) Eco- restoration of degraded open forests : Type A	70	30.240 @ Rs 43,200/ha	cottage industries units	
		: Type C	70	94.50 @ Rs 135,000/ha		
		Sub Total	195 ha	147.015		
2	Ecosystem restoration	Rehabilitation of shifting cultivation	62 ha	50.22 @Rs 81,000 /ha		
		Sub total	62 ha	50.22		
3	Enhancing tree cover in Urban & Peri - urban areas	Plantation in Govt. offices compounds	15ha	40.50 @ Rs 270,000/ha		
	I	Sub total	15 ha	40.50		
4	Agro Forestry and	a) Farmer's land including current fallow	43 ha	23.22 @ Rs 54,000/ha		

Social	c)				
Forestry	Highways/Rural roads/Canals/ Tank Bunds	12 ha	22.68 @ Rs 189,000/ha		
Sub total		55ha	45.90		
TOTAL			283.407	8units	48.689

4.7 Whether Map showing details of the area proposed village-wise and submission-wise enclosed

-Attached as Annexure-

- 4.8 Whether the geo-references of the treatment locations enclosed in the prescribed format *Attached as Annexure-*
- 4.9 Details of support activities proposed in the landscape including proposed cost and village-wise details wherever applicable

Under GIM, the livelihood support given to locals will be Technical and financial support to 8 units of forest based cottage industries. The proposed cost for this activity will be Rs 53.04 lakhs

4.10 Details of each cross-cutting intervention proposed under the mission with area details, geo-references, activities etc.

		Table	21B		
Sl/no	Cross cutting	Activities	Unit	Total Cost	Geo-references
	interventions			(Rs in lakhs	
	proposed				
1	Alternate energy	1)Provision of LPG	42 families	1.386	
	sources	connection			
		2)Solar device	42 families	1.386	
2	Community	Financial support to	8nos	48.689	24 ⁰ - 13'-57.00"N.
	livelihood	micro cottage			92 ⁰ - 40'- 27.00"E
	enhancement	industries			
3	Community	Improvement planting	30Ha	6.00	24 ⁰ - 14'-36.00"N.
	conserved areas	with protection	@Rs30,000/H		92 ⁰ - 39'- 47.00"E
	and sacred groves	activities	а		

4	Watershed management	Construction of Checkdam/Retaining wall	4nos(150x3m 2) @Rs8006/Rm	12.00	24 ⁰ - 13'-45.92"N. 92 ⁰ - 39'- 58.67"E
		Construction/Develop ment of RCC public water points		1.20	24 ⁰ - 13'- 45.72"N. 92 ⁰ - 40'- 25.70"E

4.11 Promotion of alternative fuel energy

	Table 22								
Sl. No.	Village	Schemes proposed		neficiaries in me proposed	Total cost under each scheme				
			No. of family	No. of beneficiary	(Rs in lakhs)				
1	Tumpui	LPG connection to BPL families	42 Families	42nos	1.386 @R3300/unit				
		Solar devices	42 Families	42nos	1.386 @Rs 3300/unit				

Chapter 5

Activities proposed under convergence

				Table 23			
				Area (Natura	l Resource	Other Ac	tivities
			Implemen	Development	Activities)	(Social S	ectors)
		Scheme	tation	Works	Proposed	Activities	Proposed
			Agency		funding	proposed	funding Rs
					(in lakhs)		in lakhs
		MGNR	BDO,	Improvement		1.Construction	16.00
		EGS	Thingdawl	&		of check-dam	
				Conservation		2.Development	5.00
				of		of Public water	
				Community/		point	
				NGO parks	30.00	3. Roadside	
						plantation	10.00
		RKVY	DHO,	Construction		Construction	8.00 per unit
S1.	Village		DAO,	of Link		of rainwater	
No	New		DO,	Road,		harvesting unit,	-
1.	Diakkawn		(Seri.) DLAO	Mulberry	40.00	water tank,	
				Plantation,		Retaining	
			DVO (A.H			Wall, Cattle	
			& Vety			care etc.	10.00
		NAP	FDA	Afforestation		-	-
			Kolasib/	(AR-30Ha)			
			concerned		20.17		
			VFDC				
		NBM	FDA	-	-	-	-
			Kolasib				
			/VFDC				
		CAMPA	FDA	-	-		-
			Kolasib /				
			VFDC				

5.1 Activities proposed under convergence

5.2 Activities proposed for overall improvement of the landscape to be taken up through convergence (details regarding each scheme of the forest/non-forest departments proposed and the village-wise activities along-with expected outcomes and funding during the project to be given).

5.3 Approval of district level committee for proposed convergence

-Attached at Annexure-

Chapter 6

Institutional Set-up for implementation in the landscape

6.1 GIM Committee:

Various committees have been constituted by the State Government vide Notification No.B 11016/16/2011-FST Dt 11.11.2014 for effective implementation of GIM in the State of Mizoram. A copy of the notification is attached at Annexure II The names of these committees are as under:-

- 1) State Forest Development Agency for "Green India Mission"/State Mission Directorate
- 2) State Level Steering Committee for Green India Mission
- 3) GIM Cell under Environment & Forest Department/Nodal Agency
- 4) Revamped FDA for Green India Mission
- 5) District Level Steering Committee
- 6) Village Level GIM Committee

6.2 Institutional Set-up for implementation in the landscape

	Table 24							
		Institutions				Details of		
S1.		proposed	Sub	mission of are	а	other	Remarks	
No	Village	for				activities		
		implementa tion	Submission	Category	Area			
			Enhancing	With	275 ha	Provision of	Financial	
			quality of	limited root		support to	support for	
		Revamped	existing	stocks and		small scale	Livelihood will	
		VFDC	forest cover	open		cottage	be released in	
1	New			blanks		industries	the first year.	
1	Diakkawn		Ecosystem	Rehabilitati	89ha			
			restoration	on of				
			and increase	shifting				
			in forest	cultivation				
			cover					

Social Forestry	Plantation in Govt. offices compounds	20 ha	
Agro- forestry	Plantation alongwith agri-crops	79ha	
Alternate energy source	LPG connection to BPL families	42 Families	Alternate energy source
	Solar devices	42 Families	

Chapter 7

Livelihood Issues

7.1 Brief note on the forest dependency and livelihood issues village-wise

7.1.1 Availability and Requirement of Fuel wood.

Most of the households use fuel-wood as supply of LPG cylinders is much limited in the rural areas. The requirement and availability of fuel-wood is indicated below:-

	Table 25									
S1 . No.	Village	No. of households	Average fuel wood requirement per household (cum.)	Annual Fuel wood requirement (cum.)	Fuel wood availability (Annual Yield) (cum.)	Remarks				
1	New Diakkawn	430	0.6	258	493.57	Source:Kolasib WP data & Field verification				

7.1.2 Availability and Requirement of Fodder

Very few households practice cattle rearing for livelihood support. Therefore, demand for fodder is comparatively low.

7.1.3 Availability and requirement of Timber

Demand for timber used in house construction and furniture has been worked out and is indicated below:-

	Table 26										
S1 .	Village	No. of	Average timber	Annual timber	Timber	Remarks					
No.		house-	requirement per	requirement	availability						
		holds	household (cum.)	(cum.)	(cum.)						
1	New Diakkawn	430	0.19	81.7	1645.24	Source: Kolasib WP data					

7.1.4 Availability and Requirement of NTFP(s).

Bamboo, cane, thatch, honey etc. are some of the important NTFP (s) which are extracted by the villagers from the forests. The demand as well as the availability for various NTFPS has been indicated below:-**New Diakkawn :**

Table 27										
Bamboo (nos.)		Fuelwood(cum)		Broom(Qtls)		Thatching grass (Bundles)				
								Demand	Supply	Demand
Demand	availability	Demand	Availability	Demand	availability	Demand	Availability			
38,000	7,00,000	258	493.57	2.58	300	1150	30,000			

Source: Field verification

7.2 Details of activities to be carried out to address livelihood issues through Green India Mission including details of activities, beneficiaries, cost, village-wise plan etc.

	Table28								
Sl.	Village	Proposed	Role of			Proposed	Remarks		
No.		livelihood	facilitators, if	Benefic	ciaries	cost(Rs			
		activities	any engaged			in lakhs)			
				Family	No				
		Technical	Provision of	6	6	39.78	Cottage industries are		
		&	technical knowledge to				required to produce handicraft-items like		
	New	Financial	improve quality				gasket, pot, local		
1	Diakkawn	support to	and quantity of production as				carriers, Zampher (Mat)etc made from		
		cottage	well as				bamboo &cane		
		industries	assistance in marketing						

7.3 Convergence of schemes of other departments/missions viz. NRLM to enhance the livelihood especially with the aim of addressing the drivers of degradation and the activities proposed along-with the beneficiaries, cost, and village-wise plan

	Table 29									
S1.	Village	Scheme	Implementin	Proposed	Beneficiaries		Propos	Remarks		
No.			g Agency /	livelihood	Denene	lancs	ed cost			
			department	activities	Family	No.				
1	New Diakkawn	NRLM	BDO, Bilkhawthlir	NIL	-	-	-	At present, financial support given to _SHGs in the form of revolving fund@Rs15000/S HGs.No forestry activities have been included		

Chapter 8

Baseline Survey

8.1 Baseline survey

The baseline data for various parameters required for maintaining the outcomes of activities undertaken under GIM are given below:-

New Diakkawn village:

	Tabl	e 30			
Parameters	Indicator	Baseline Status (As on 15.6.2014)			
1. Forest/tree cover on	a) % of area with	79.57% (Total forest cover 9.766 sq. km. out of			
forest/ non-forest lands in	forest cover	12.273 sq. km.)			
the Mission Target Area	b) % area in various	1) Very Dense = 0.0%			
(MTA)	forest density	2) Moderately Dense = 0.0%			
	classes	3) Open Forest = 79.57% (9.766sq. km.)			
		Source: GIS cell E&F dept.Govt of Mizoram			
2. Ecosystem services	a) Shannon-Weiner	1.828			
from targeted areas /	Index				
landscapes	b) Biomass	Above Ground Biomass = 63,816.75 tonnes			
		Source: Field Survey data			
3. Soil	a) Depth of top soil	The depth of top soil is very deep in valley flatlands			
		whereas in the hills it is deep to very deep.			
	b) Soil quality	Three soil orders such as ultisols, inceptisols and entisols are found in the project area. The surface soil textures are loam to clay loam with clay content increasing with depth in the hills whereas in the valleys it is mostly sandy loam to sandy clay loams. The soils are acidic in nature with pH values ranging from 4.5 to 6.0. The soils in the hills are strongly acidic in reaction, whereas, the soils in alluvial deposits are less acidic in nature. The percentage of organic carbon content is medium (0.72%). The available nitrogen is medium (0.65 kg/ha) while available phosphorus is found low (10.5 kg/ha). The available potash is found to be high (250 kg/ha).			

4. Hydrology	a) Wetland area	a) No wetlands in the Area			
	b) Stream beds/water	b) No data on stream water	r discharge		
	discharge	c) The area is hilly wi	th variable elevation.		
	c) Ground water,	Therefore, the ground w	vater level varies. In the		
	Table- water level	village settlement area,	the depth of water in		
	in wells/ springs	well is about 50 ft.			
5. Annual sequestration of	Carbon sequestered in	Baseline Carbon Stock = 20 [°]	7,068.6144 tonnes		
Co ₂	the target area.				
6. Forest / non-forest	No. of targeted	Income(Rs. Annual)	No of Households		
based livelihoods income	households (HH)	More than 5Lakh	52		
	reporting at least 25%	5 lakh> <50,000	268		
	increase in real	Less than 50,000	110		
	income				
7. Quality of forest cover	a) % of forest area	55%	<u> </u>		
& ecosystem services of	naturally	Source:GIS Cell,E&F Dept,I	Mozoram		
forest / non-forests	regenerating.				
a) Moderately dense	b) Biomass	8,328.92 tonnes (AGB)			
forests					
b) Open forests		55,487.84 tonnes (AGB)			
c) Degraded grasslands		No Degraded Grasslands			
d) Wetlands		No wetland area			
2.Ecosystems are restored	a) % of area that is				
and forest cover is	adequately stocked				
increased in Scrub, shifting	/productivity				
cultivation areas etc.					
3. Forest and Tree cover in	a) % of forest and tree	No urban area is there in the	Mission Target Area		
urban/ peri-urban land	cover in the targeted				
	urban/peri-urban areas				
4. Forest and tree cover on	a) % of tree cover on	78.03% (8.67 sq. kms. out of	f 11.11 sq. kms.)		
marginal agricultural lands	non-forest land.	Source: GIS Cell,E&F Dept	Mizoram		
/ fallows and other non-					
forest land under agro					
forestry/ social forestry					
		l			

5. Public forest/ non- a) % of area under 61.80 % (5.00 Sq Km out of 8.09 Sq Km)					
forests areas (taken up	management of	Legally under the Village Council			
under the Mission) are	community	Source: GIS Cell E&F Dept,N			
managed by the	institutions				
	Institutions				
community institutions.					
6. Improved fuel wood-use	a) % of HH reporting	Total Households = 430			
efficiency and alternative	use of alternative	LPG users $= 412$			
energy devices adopted by	energy devices.	Fuel-wood users = 198			
households in the MTA.		Fuel-wood only users $= 18$			
		Solar Devices users = 39			
7. Forest/non forest based	a) % of HH reporting	Source of income	No of Households		
livelihoods of the people	diversification of	Govt Service	95		
living in and around the	income sources.	Jhumming	75		
forests are diversified.		Horticulture including	145		
		WRC			
		Business/Petty Trade	77		
		Daily Labourers	22		
		Others	18		

Chapter 9

Status of reforms proposed

9.1 Role of Gram Sabha (Village Council) in project planning, implementation and monitoring

Village level GIM committee has been constituted by the State Government vide notification dated (*annexure*) for the following activities:-

- 1. To render support in the preparation of Perspective Plan,
- 2. To ensure implementation of planned and approved schemes (approved by the State Level Steering Committee and MoEFCC) with expected level of quality,
- 3. To promote active people's participation in the implementation of "Green Indian Mission" and
- 4. To provide feedbacks timely to concerned authorities for further improvement in programme implementation.

Further, VFDC would play key rile in project planning, monitoring and implementation under GIM. Both the VFDC and the Village Level GIM Committee would work closely in coordination with Gram Sabha (Village Council).

9.2 Revamping of FDAs and SFDAs

SFDAs and FDAs (General Body as well as Executive Committee) have been revamped for formulating suitable plans and executing well-planned projects with people's participation under GIM in Mizoram. The SFDA (General Body) will provide overall guidance for effective implementation of "Green Indian Mission" in the State. It will also oversee implementation of the broad policy framework in achieving Mission goals and objectives. The Executive Committee of revamped SFDA has been entrusted with the following functions:

- 1. Approval of Perspective Plan as well as Annual Plan of Operations;
- 2. Preparation of annual reports on GIM implementation in the Sates;
- 3. Programmatic convergence at the landscape level

The revamped FDA (General Body) will deal with policy issues pertaining to cohesion and convergence of different programmes at the Panchayat/Village Council level for better outcomes from the mission. The Executive Committee of revamped FDA will arrange for preparation of perspective plan/annual plan and convergence of various programmes.

9.3 FRAs compliance in areas covered under L2 and L3s

Claims for rights in the forests would be settled strictly as per the relevant acts applicable in the State of Mizoram.

9.4 Easing out regulatory framework in felling and transportation of forest produce

There is need to simply the procedure for issuing documents enabling felling and transportation of forest produce. The MoEFCC has recently taken initiative for simplifying rules and procedures for issue of permits and transit passes in respect of trees grown on non-forest private lands. The State of Mizoram would work in this direction in a proper way to motivate tree planters on non-forest private lands and also protect the valuable forest wealth existing in the State.

9.5 Strengthening frontline formation of E&F department

Under Necessary actions would be taken for "Capacity Building" of frontline forest staff engaged in implementation of GIM in the State. Suitable training as well as required facilities would be provided to them for executing the planned works efficiently. It is expected that well-trained forest staff with people's participation would be able to deliver the desired output/outcomes GIM.

Chapter – 10

Mission Cost

10.1 Cost of the Mission

Item wise and Year-wise cost of the mission for various work items has been given in the table placed in Annexure.

10.2 Mission sustainability

The mission will be executed with active participation of the local people. On completion of the project, crop productivity of the existing forest will increase substantially. Sustainable extraction of forest produce, value addition to forest produce as well as marketing of value added products will provide livelihood support to the people while maintaining ecological stability in the region. Thus the mission is economically viable and socially adoptable.

Abstract							
1. Name of L1 landscape	The State of Mizoram						
2. Name of L2 landscape	Kolasib & Bairabi (Dumkhel Ram)						
3. Forest and non-forest area in L2	Forest area :12.49	9 sq.Km					
	Non-Forest area :155.	59 sq.Km					
4. Drivers of degradation in the landscape	Traditional practice of	shifting cultivation, Lack					
	of strategic and particip	patory land-use planning,					
	excessive population p	ressure on the forests for					
	fuel-wood, fodder, tim	ber etc., inadequate					
	scientific management	of watersheds including					
	rainwater harvesting.						
5. Results of problem analysis							
6. Existing scheme implemented in the landscape	NAP,NBM,MGREGS,RKVY,IAY						
7. Implementing agencies under GIM	Revamped FDA,Kolas	ib					
8. GIM activities	Proposed funding	Funding for first year					
(a) Submission/Category	(Rs in lakhs)	Funding for first year					
1.Enhancing quality of existing forest cover	147.015						
2.Ecosystem restoration and increase in forest cover	50.22						
3.Social Forestry	40.50						
4.Agro forestry	45.90						
5. LPG connection to BPL families	1.386						
6. Solar devices	1.386						

(b) Other su	pport activities			
1.Research			6.98	
2.Publicity/M	ledia/Outreach act	ivities	3.49	
3. Monitoring	g and Evaluation		3.49	
4. Livelihood	Improvement act	ivities		
5.Strengtheni	ng local-level inst	itutions	17.46	
6.Strengtheni	ng FDs		17.46	
7.Mission org	ganization, operati	on and maintenance,	13.97	
contingencies	and overheads			
(c) Liveliho	od activities			
1. Suppo	ort to cottage indus	stries	48.218	
10 Converge	ence activities			
Scheme	Agency	Activities	Proposed cost	
			(Rs in Lakh)	
MGNREGS	BDO Thingdawl /	Improvement& Conservation of Community/ NGO	30.00	
	Bilkhawthlir	parks		
RKVY	DHO, DAO, DO, (Seri.), DLAO, DVO (A.H & Vety.)	Construction of Link Road, Mulberry Plantation,	40.00	
NAP	FDA Kolasib	Afforestation		
	/Concerned VFDC	(ANR :50Ha)	17.15	
CAMPA	FDA Kolasib	Compensatory Afforestation:200 Ha	68.60	
11. Activitie	s proposed under	other schemes		
N.A				

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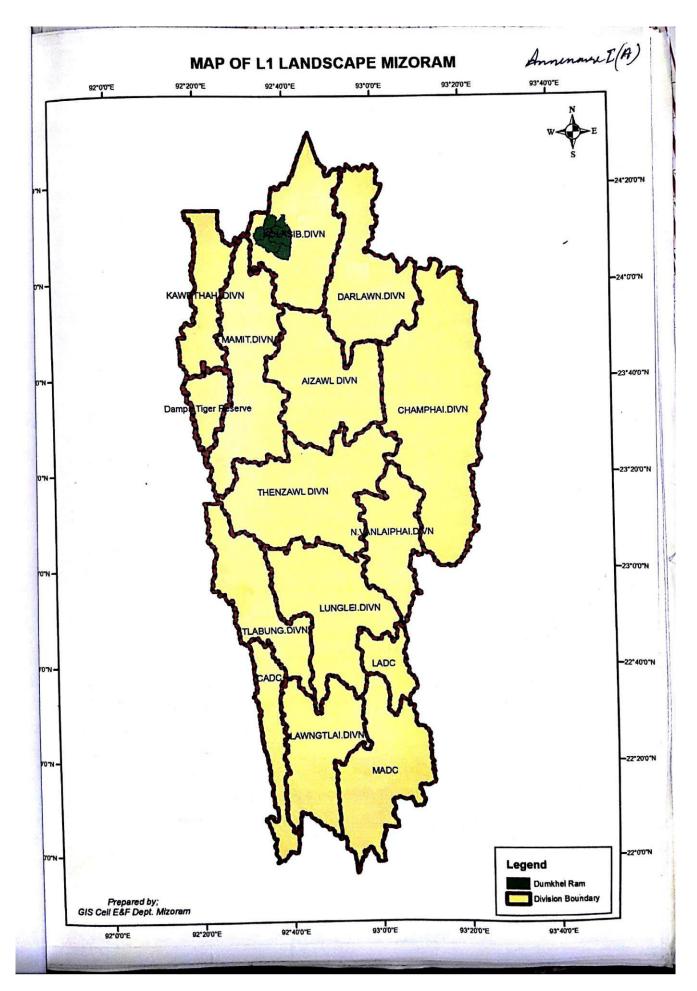
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No.B. 11016/16/2011 - FST

Government of Mizoram Environment and Forests Department

NOTIFICATION

Dated the 11st Nov' 2014

In the interest of public service, the Governor of Mizoram is pleased to constitute State Forest Development Agency for "Green India Mission", State Level Steering Committee, GIM Cell, Revamped FDA, District Level Steering Committee and Village Level Green India Mission Committee for the State of Mizoram under Environment and Forests Department, Government of Mizoram with immediate effect and until further order:-

A. State Forest Development Agency for "Green India Mission"/State Mission Directorate

General Body:

	Ι.	Hon'ble Minister, Environment and Forests, Mizoram	-	Chairperson
	2.	Principal Chief Conservator of Forests	-	Member Secretary
	3.	Chief Wildlife Warden	-	Member
	4.	Addl. Principal Chief Conservator of Forests	-	Member
	5.	Chief Conservator of Forests (Admn.)	-	Member
	6. 🗸	Chairman, Executive Committee, all FDAs		
	7.	Member-Secretary, Executive Committee, all FDAs	-	Member
	8.	Nodal Officer, State CAMPA	-	Member
	9.	Nodal Officer, Forest Conservation	-	Member
	10.	President, CYMA	-	Member
	11.	President, MUP Hqrs	-	Member
	12.	President, MHIP Hqrs	-	Member
	13.	Chief Conservator of Forests (P&D) & Nodal Officer.		

Green India Mission

OFFICE OF THE CF (NC) MIZORAM R. No. 1702 Date 13-11-14 File No.

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Member

Terms of reference:-

The State Mission Directorate (General Body) will meet at least once in a year. The Directorate will provide overall guidance for effective implementation of "Green India Mission" in the State. It will also_oversee implementation of the broad policy framework-in achieving Mission goals and objectives.

Executive Committee

			Chairperson
1.	Principal Chief Conservator of Forests	-	•
2.	Addl. Principal Chief Conservator of Forests	-	Member
3.	Chief Wildlife Warden	-	Member
4.	Chief Conservator of Forests (Administration)	-	Member
			Member
5.	Nodal Officer, Forest Conservation		
6.	Chairman, Executive Committee of 3 FDAs	-	Member
7.	Member Secretary, Executive Committee of 3 FDAs	-	Member
8.	Nodal Officer, State CAMPA	-	Member
	· / ,		Member
9. 🗸	Conservator of Forests (R&D)	-	
10.	Head, Forestry Department, Mizoram University	-	Member
11.	Representative, Central Agriculture University, Selesih	-	Member
12.	President, CYMA		Member
13.	President, MUP Hqrs	-	Member
14. I	Representative each from Finance, Planning,	-	Member
3	Rural Development, Science & Technology,		

- Agriculture, Social Welfare and Local Administration
- Department of the State
- 15. Chief Conservator of Forests (P&D)

Member Secretary

Terms of reference:-

The Executive Committee will meet at least twice in a year. The committee is entrusted with the following functions:

- 1. Approval of Perspective Plan as well as Annual Plan of Operations;
- 2. Preparation of annual reports on GIM implementation in the State;
- 3. Programmatic convergence at the landscape level.

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State Level Steering Committee for "Green India Mission" B.

	-	Chairperson
1. Chief Secretary		Member Secretary
2. Principal Chief Conservator of Forests	-	Member
3. Principal Secretary, Finance	-	Member
4. Principal Secretary, Planning	-	Member
5. Principal Secretary, Environment & Forests	-	Member
6. Principal Secretary, Rural Development	-	Member
7. Principal Secretary, Agriculture	-	Member
8. Secretary, Soil & Water Conservation	-	Member
9. Secretary, Social Welfare	-	Member
10. Secretary, Local Administration Department	- 2	Member
11. A representative of the Ministry of		
Environment, Forests and Climate Change	-	Member
12. Addl. Principal Chief Conservator of Forests	<u>_</u>	Member
13. Chief Conservator of Forests (Admn.)		Member
14. Chief Conservator of Forests (P&D)		Member
15. Chief Wildlife Warden	-	Member
16.~All Conservators of Forests	he 15 − 1	Member
17. Director, Agriculture Department	ī	
18. Director, Horticulture Department	-	Member
19. Director, Soil & Water Conservation	-	Member
20. Director, Sericulture Department	-	Member
21. Director, AH & Vety. Department	- 1	Member
22. Director, Fisheries Department	-	Member
23. Project Director, MIRSAC	-	Member
24. Representative, Sc. & Technology Wing (Planning Board)		Member
25. Head, Forestry Department, Mizoram University	-	Member
26. Representative, Central Agriculture University, Selesih	-	Member
27. President, CYMA	· _	Member
28. President, MUP Hqrs	-	Member

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Terms of reference:-

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1. To provide for overall guidance and synergy with other programmes so as to ensure interdepartment coordination and convergence;

To approve Annual Report for "Green India Mission"; 2.

- To monitor progress of fund utilization under "Green India Mission"; 3.
- To work as empowered Committee for approval of perspective plan as well as annual work 4. programme under "Green India Mission"

The State Level Steering Committee will meet at least once in six months.

GIM Cell under Environment & Forests Department/Nodal Agency: C.

1.	Principal Chief Conservator of Forests		-	Chairman
2.	Addl. Principal Chief Conservator of Forests		-	Member Secretary
3.	Chief Wildlife Warden			Member
4.	Chief Conservator of Forests (A)		· -	Member
5.	Chief Conservator of Forests (P&D)		-	Member
	All Conservators of Forests		-	Member
7.	Divisional Forests Officer, Aizawl Forest Division		-	Member
8.	Divisional Forests Officer, Champhai Forest Division		-	Member
[.] 9.	Divisional Forests Officer, Kolasib Forest Division	•	-	Member
10.	Divisional Forests Officer, Darlawn Forest Division	•	÷	Member
11	Divisional Forests Officer, Thenzawl Forest Division	20	-	Member

Terms of reference:-

- To facilitate/finalize preparation of "Perspective Plan" and Annual Plan of Operations for i) approval of SFDA (Executive Committee) and State Level Steering Committee.
- ii) To review the progress of project planning and implementation under "Green India Mission" as per guidelines/advisories issued by the MoEFCC.
- iii) To arrange for proper monitoring of works executed under GIM internally as well as through independent agencies.
- iv) To prepare/finalize annual reports as well as other necessary documents under the mission.

Terms of Reference:-

The Executive Committee (FDA) will meet at least once in a year. The committee will deal with preparation of perspective plan/annual plan and convergence of various programmes.

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District Level Steering Committee E.

1.	Deputy Commissioner concerned	-	Chairperson
2.	District level officers dealing with expenditure		
	in the district to be nominated by the Deputy Commissioner	-	Member
3.	District Agriculture Officer	-	Member
4.	District Horticulture Officer	-	Member
5.	District Officer, Soil & Water Conservation	-	Member
6.	District Sericulture Officer	-	Member
7.	District AH & Vety. Officer	-	Member
8.	District Fisheries Development Officer	-	Member
9.	Project Director, DRDA	i i i i i i i i i i i i i i i i i i i	Member
10.	District Social Welfare Officer/Officer i/c of the District from	n	
	Social Welfare Department	-	Member
11.	EE, Minor Irrigation/Officer i/c of the District from		
	Minor Irrigation	-	Member
12.	Representatives of Village Council	5 -	Member
13. 1	President, YMA Sub-Hqrs	-	Member
14. I	President, MHIP Sub Hqrs	_	Member
15. 1	The concerned Range Forest Officer	-	Member
	Divisional Forest Officer (Territorial)		
	()	-	Member-Secretary

Terms of reference:-

To provide for proper coordination among various departments and facilitate convergence of various programmes so as to achieve the outcomes of "Green India Mission" efficiently.

Revamped FDA for "Green India Mission" D.

General Body

Ge	eneral Body	-	Chairperson .
1.	Conservator of Forests concerned		Member
2.	Divisional Forest Officer, Resources Survey Division	-	Wienne
		-	Member

3. Range Forest Officers, ACFs/SDFOs

4. Presidents of JFMC General Bodies, not more than 50 nt any time, to be nominated by Chairperson on rotational basis for a period of one year, of which 20 would be women representatives. In the event adequate number of women chairpersons is not available, the women representatives will be drawn from the members of the General Bodies of JFMCs. Members

		, -	Members
5.	President, Village Council concerned	-	Member
6.	Three non-official representatives to be nominated	- ,	Members
	by the apex institutional framework of Village Council i.e.	LAD	
7.	Territorial Divisional Forest Officer	· -	Member Secretary

Terms of reference:-

The FDA (General Body) will meet at least once in a year. Its basic functions will be to deal with policy issues pertaining to cohesion and convergence of different programmes at the village level for better outcomes from the mission.

Executive Committee

1.	Conservator of Forests concerned	-	Chairperson;
2.	Divisional Forest Officer, Resources Survey Division	-	Member

3. District level officers of Agriculture, Rural Development, Animal husbandry, Soil & Water Conservation, Social Welfare, Local Administration Department, Industries, Public Health Engineering, Horticulture, Minor Irrigation, Small Scale Industries/KVIC, Education Departments and the Lead Bank Officer (to be nominated by concerned DC). i.

Three non-official representatives to be nominated by the apex institutional framework of 4. village council i.e. LAD. Members

- Fifteen nominees from the JFMCs, to include minimum of 7 women- Member 5.
- Chief Executive Officer, FDA . 6.

Member Secretary.

Members

F. Village Level GIM Committee

		-	Chairperson
1.	Range Officer concerned		Member-Secretary
2.	Beat Officer/Forester concerned	-	Member Beereray
3.	Field officer/staff in-charge of the area from		8 a - 4
	Agriculture, Horticulture, Soil & Water Conservation,	-	Members
	Sericulture, AH&Vety., Fisheries Department,		
	Rural Development Department, Social Welfare Department.		
4.	Two representatives/members of concerned JFMC	9 4	Members
5.	Two representatives of Gram Sabha/Village Council	-	Member
6.	Two representatives of prominent NGOs	-	Member
		2	an ^a 11

Terms of reference:-

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- 1. To render support in the preparation of Perspective Plan.
- To ensure implementation of planned and approved schemes (approved by the State Level Steering Committee and MoEFCC) with expected level of quality.
- 3. To promote active people's participation in the implementation of "Green India Mission".
- 4. To provide feedbacks timely to concerned authorities for further improvement in programme implementation.

This supercedes earlier Notification issued vide no. B:11016/16/2011-FST dated 22.03.2012.

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Sd/- LALRAM THANGA

Principal Secretary to the Govt. of Mizoram Environment & Forests Department

Memo No.B. 11016/16/2011-FST

Copy to :-

Secretary to Governor, Mizoram. 1.

Principal Secretary to Chief Minister, Mizoram. 2.

- P.S to Speaker/Ministers/Minister of State/Deputy Speaker, Mizoram. 3.
- P.S to all Parliamentary Secretaries, Government of Mizoram. 4.
- PPS to Chief Secretary, Government of Mizoram. .5.
- All Principal Secretaries/ Commissioners/Secretaries, Govt. of Mizoram. 6.
- All Head of Department, Mizoram. 7.
- All Deputy Commissioners, Mizoram. 8.
- Principal Chief Conservator of Forests, Mizoram. 9.
- Additional Principal Chief Conservator of Forests, Mizoram. 10.
- All Chief Conservator of Forests, Environment & Forests Department, 11. Government of Mizoram.
- All Conservator of Forests, Environment & Forests Department, 12. Government of Mizoram.
- Chief Wildlife Warden, Mizoram. 13.

All Divisional Forests Officer, Mizoram. 14.

All Members concerned. 45.

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Under Secretary to the Govt. of Mizoram, Environment & Forests Department

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Minutes of the meeting (State Mission Directorate - GIM)

As per advisories/guidelines issued by the Ministry of Environment & Forests (MoEF), the State Government has constituted "State Mission Directorate" to suggest suitable strategies and provide necessary directions for implementing Green India Mission (GIM) effectively in Mizoram. The first meeting of the State Mission Directorate was held on 11.07.2014 in the Secretariat's Conference Hall. The meeting was chaired by Pu Lalrinmawia Ralte, Hon'ble Minister, Environment & Forest, Government of Mizoram and Chairman of the State Mission Directorate. The list of officers, who attended the meeting, is at the annexture.

Hon'ble Minister, Environment & Forests welcomed all members of the Mission Directorate and distinguished invitees for the meeting. He expressed that need-based planning under GIM and proper execution of well-planned projects will provide adequate livelihood support to the people while maintaining ecological stability in the State. He further stated that efforts to achieve environmental security will also contribute significantly to the process of arresting climate change and addressing its impact on the people.

Emphasizing upon the importance of GIM, Hon'ble Minister, Environment & Forests advised all concerned departments to work together and apply convergence principles so as to achieve mission outcomes/targets efficiently. He expressed that direct/up-front consultation with all stakeholders including village-based organizations, conservation-oriented NGOs and academic/technical experts would be required for designing scientifically-sound site-specific interventions aimed at getting sustainable delivery of maximum eco-system services from the forests. He further advised concerned officers of line departments to go through GIM guidelines and related documents carefully and suggest suitable results-oriented measures in larger public interests as per the mission guidelines for implementing GIM effectively in the State,

PCCF and Principal Secretary (E&F) emphasized upon the following issues of relevance concerned with planned implementation of GIM in his opening remarks:-

• The State of Mizoram is also witnessing impacts of global climate change i.e. changing trends in temperature and precipitation over the years. The "Green India Mission", which is one of the eight missions under India's National Action Plan on Climate Change, is aimed at addressing regional concerns of climate change thereby providing sustainable livelihood support and creating healthy environment for the people.

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PCCF Office Issue No. 289 Date .1.7.7.7.2014

- Execution of projects under GIM will contribute substantially to achieve the goal of having two-third of the State's geographical area under forest or tree cover as enshrined in the National Forest Policy 1988. This is required to prevent erosion and land degradation in the hills and mountainous regions.
- There is a need to design a model to work through convergence of various ongoing schemes and achieve the twin objectives i.e. provide sustainable livelihood support to the people and ensure ecological security in the State. Suitably-designed such model may be implemented initially in landscapes (51 villages) identified presently for treatment under GIM.
- Maximum possible co-operation of the concerned line departments would be required for achieving the GIM objectives efficiently.
- The field forest officers engaged in GIM implementation should endeavour to work closely with the local communities as building up mutually-beneficial trust-worthy relationship between the forests, the people, and the State would be extremely useful in achieving the mission targets with desired level of quality.

CCF (P&D) gave a power-point presentation explaining background of the mission, its objectives, mission strategies, structure of various organizations involved in implementing the mission strategies, implementation schedule (time-frame), sub-missions and cross-cutting interventions envisaged for the mission, landscape details etc. In the presentation, he highlighted the following:-

- The entire State has been identified as "Landscape of Interest/Importance" i.e. L1 for
 possible coverage under the mission. In the initial phase, 8 operational units (L2) in five
 forest divisions and 51 working units (L3) have been identified / prioritized for immediate
 treatments as per the criteria given by the Ministry of Environment and Forests (MoEF) for
 landscape identifications.
- Bridge Plan for Rs. 223.65 lakhs has been sanctioned by the MoEF for taking up out-reach activities, micro-planning, landscape survey, entry-point activities etc.
- Situation/problem analysis for all L2/L3 is required to be carried out in consultation with all stakeholders so as to identify drivers of degradation. Stakeholder's participation (participatory planning) is a necessity as GIM is a multi-stakeholder, multi-sectoral, and multi-departmental mission.

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- Micro-plan/perspective plan would be a tool to facilitate transition from vicious cycle
 (consisting of environmental degradation, decreased crops productivity, and poverty) to virtuous cycle leading to sustainable socio-economic prosperity in eco-friendly surroundings.
 Focus may be on restoration of degraded eco-system, water ⁶security, enhancement of crops
- Focus may be on restoration of degraded eco-system, water security, value addition, (agricultural, horticultural and forests) productivity, energy security, value addition, marketing linkages for value-added produce etc.
- Training of educated youth for making them self-employable with sustainable use of available natural resources may be a viable option for livelihood support.

Thereafter, various matters concerned with planned implementation of the GIM in the State were discussed in detail and the following decisions were taken:-

Strategies for implementation of 'Bridge Plan' and preparation of 'Perspective Plan'

- All stakeholders including village communities, concerned/line departments in the district, conservation-oriented NGOs and academic/technical experts may be consulted for implementing "Bridge Plan" and preparing "Perspective Plan" for landscapes prioritized for treatment under GIM.
- As approved by the State Government, "Bridge Plan" may be implemented by following the fund transfer mechanism involving SFDA (State Forest Development Agency), FDAs (Forest Development Agencies) and VFDCs (Village Forest Development Committees). However, all concerned DFOs may obtain suitable inputs from various line departments in the district and other stakeholders for deciding specific work activities as per GIM guidelines/advisories.
- "Brigde Plan" may be executed strictly as per the approved items of works and as per the guidelines/advisories circulated by the MoEF for GIM implementation.
- While preparing perspective plan, needs of the local communities as well as existing site conditions such as agro-climatic zone, altitude, soil type etc. may be considered.
- "State Action Plan on Climate Change" prepared by the Science and Technology Department of the State may also be referred to for preparing "Perspective Plans".
- The concerned line departments may share their data/records with GIM cell for facilitating timely preparation of required perspective plans.
- Digitized maps i.e. geographical map, watershed map, contour map, land-use map, vegetation map etc. are required to be prepared for all L2 and L3. These maps would provide vital technical inputs for preparing micro-plans/perspective plans. For the purpose, MIRSAC

may submit proposal to GIM cell in PCCF's for sharing existing data and preparing addition vailability of relevant data, cost -frame for providing required

GIM cell in PCCF's office, in consultation with lin _____partments and other stakeholders, may prepare a model to work through convergence of all on-going schemes in identified landscapes as GIM cannot be a 'stand alone' project.

Modifications in constitution of various GIM committees

- Planning Department, Finance Department, AH & Vety. Department and Fisheries . Department may also be included in the State Mission Directorate for GIM.
- All concerned DFOs i.e. DFO (Aizawl, Champhai, Kolasib, Darlawn and Thenzawl) may be included in GIM cell.
- In the Division Level GIM Committee, DC may be the Chairman and DFO Member-Secretary. Further, all line departments involved in GIM implementation at the district level and concerned ROs may be included as members of the division level committee.
- GIM cell in PCCF's office may prepare proposal for modifications in the GIM committees including ToR as per applicable guidelines and submit it to the State Government for approval.

State level workshop

The proposed 'State Level Workshop' on GIM may be held during 2nd week of August, 2014. Other items

- Guideline on GIM in brief may be prepared in Mizo language for facilitating easy understanding by the local people.
- GIM cell in PCCF's office may provide copies of guidelines, advisories, Bridge Plans and . other relevant documents to concerned line departments and other stakeholders for their knowledge and submission of suggestions on ways to implement GIM effectively in the state.
- Success/performance indicators as well as methods to measure these indicators may be developed in advance and incorporated in the "Perspective Plans".

In his concluding remarks, Pu Rosiama Vanchhawng, APCCF, emphasized upon the importance of GIM for the people of Mizoram. He expressed that the implementation of GIM in convergence with other on-going schemes would bring substantial benefits to the people in

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healthy environment. He requested all stake holders to work together so as to get maximum sustainable benefits from the mission.

Sd/-(LALRINMA WIA RALTE) MINISTER. E & F & CHAIRMAN STATE MISSION DIRECTORATE GREEN INDIA MISSION MIZORAM

Memo No. B. 13011/1/2011 – PCCF/45 Copy to: Dated 15 July. 2014

- 1. P.S. to Hon'ble Minister, Environment & Forests, Mizoram.
- 2. P.S. to Principal Chief Conservator of Forests.
- 3. P.S. to Addl. Principal Chief Conservator of Forests.
- 4. Chief Conservator of Forests (Admn.)
- 5. Chief Conservator of Forests (P&D)
- 6. Chief Wildlife Warden.
- 7. All Conservators of Forests.
- 8. Director, Agriculture Department.
- 9. Director, Horticulture Department.
- 10. Director, Soil & Water Conservation.
- 11. Director, Sericulture Department.
- 12. Project Director. MIRSAC.
- 13. Representative, Sc. & Technology Wing (Planning Board).
- 14. Head, Envt./Forestry Department, Mizoram University.
- 15. Representative, Central Agriculture University, Selesih.
- 16. All DFOs / DCFs

(LALRAM THANGA) Principal Chief Conservator of Forests & Principal Secretary (E&F) Member Secretary

5

MINUTES OF THE MEETING OF DISTRICT LEVEL STEERING COMMITTEE ON GREEN INDIA MISSION, KOLASIB DISTRICT

Venue : Office chamber of Deputy Commissioner, Kolasib

Time : Dt. 06.02.2015 - 2:00 PM

Members present : List appended.

The meeting was presided over by Pu Jitender Yadav, DC, Kolasib & Chairman of Kolasib District Level Steering Committee on Green India Mission. After welcoming the members, the chairman invited the Member Secretary to give the background information about Green India Mission and the purpose of the meeting.

Pu Lalthlamuana Pachuau, the Member Secretary then gave a brief background information about Green India Mission which is one of the eight missions for achieving the National Action Plan on Climate Change and how the mission has been launched and initiated in Mizoram. He informed that the District/Division Level GIM Committee meeting under the chairmanship of the DFO was held at Kolasib New Diakkawn Hall on 22.8.2014 and that Village level meeting on GIM has also been held at Serkhan, Bairabi, Thingdawl, Tumpui and Bualpui on 7.8.2015, 12.8.2015, 5.9.2014, 6.9.2014 and again on 5.9.2015 respectively. The District/Division Level GIM Committee initially constituted with DFO as chairman and ACF, ROs and local NGOs as members by the Government on 22.3.2012 has been modified and reconstituted as District Level Steering Committee on GIM with the DC as chairman and Heads of Offices of appropriate line Departments as members by the Government on 11.11.2014, and the terms of reference of the Committee is to provide for proper coordination among various departments and facilitate convergence of various programmes so as to achieve the outcome of Green India Mission efficiently.

The Committee was also informed that in Mizoram, Green India Mission is being implemented initially in four Districts, namely, Aizawl, Champhai, Serchhip and Kolasib districts and that two landscapes (L2) at Dumkhel ram and Serlui hnar under Kolasib District have been selected for treatment under GIM and villages (L3) involved are Thingdawl, Bualpui, New Diakkawn, Tumpui, Pangbalkawn, Meidum and Dilzau in Dumkhel ram landscape, and Kawnpui I, Zanlawn, Nisapui, N.Chaltlang and Bukpui in Serlui hnar landscape. Micro-plans for all these 12 villages have been prepared in consultation with the villagers/Village Forest Development Committees (VFDC) concerned. The Perspective Plans for the two landscapes have also been prepared by incorporating the micro-plans of all the 12 villages/VFDCs. This was followed by discussion on the following agenda item:-

1. Approval of convergence proposal of the Perspective Plan for L2 Landscapes under Kolasib District:

The Member Secretary informed that the purpose of the meeting is to discuss and approve the convergence proposal incorporated in the Perspective Plan for the selected landscapes (Project sites) in Kolasib District. The activities proposed under convergence by the Forest Department in consultation with the villagers and some of the line departments as given in chapter 5 of the Perspective Plan was circulated among the members and after thorough deliberation and inclusion of fresh proposals from other line Departments, the Committee approved the activities proposed under convergence as modified and entered in chapter 5 of the Perspective Plan for the two landscapes at Dumkhel ram and Serlui hnar under Kolasib District.

The meeting ended with vote of thanks from the chair.

(JITENDER YADAV)9215

Deputy Commissioner & Chairman, District Level Fire Prevention Committee Kolasib District : Kolasib

Memo No. B.13024/1/2012-DFO(K)/ Copy to :

Dated Kolasib, the _____ Feb, 2015.

1. The Principal Chief Conservator of Forests, Mizoram, Aizawl,

:

- 2. Conservator of Forests, Northern Circle, Aizawi.
- 3. All members of Kolasib District Steering Committee on GIM.

(LALTHLAMUANA PACHUAU) Divisional Forest Officer & Member Secretary District Level Fire Prevention Committee Kolasib District : Kolasib

MINUTES OF THE MEETING OF VILLAGE LEVEL COMMITTEE OF GREEN INDIA MISSION(GIM)

Venue : Community Hall New Diakkawn Kolasib Time : 22th August, 2014 Members present : Enclosed

Meeting Chairman, Range Officer Kolasib Forest Range in tawi fel takin Green India Mission(GIM) awm zia leh a thil tum te a sawi fiah a Hemi hnu hian Kolasib ACF Pu Lalbiakchama Chawngthu chu GIM chungchang Power Point Presentation nei turin a sawm leh a. Meeting a tel member ten zawh na hrang hrangte an zawt bawk a. Heng zawh na te hi Forest Department lam hotuten an chhang zel a. Green India Mission(GIM) hi Mission tha leh awmze nei tak tur ni in member ten an hria a ni. Power point presentation te zawh a nih hnu hian a hnuai a mi ang hian hmalak zel dan tur te rel ani.

1)Sub-Mission leh Cross cutting interventions hnuai a hmalak na tul te hi khawtinten mahni khua theih ah lo rel fel a. Bial tu Rang Officer te emaw, forest field staffs remchang hnenah pek mai ni se kan ti.

2)Vawiin a Village level meeting a tel zawng zawng khuate hian GIM hi kan khua a implement turin kan rem ti.

3)Power Point Presentation ACF Kolasib in a pek hi a bengvar thlak hle a.Chuvangin member tam zawk leh midang vawiin a tel ve thei lo te lo hriat ve atan Mizo tawng ngei in hard copy sem theih ni se kan ti. Awareness hi tun aiia tam hi neih ni se kan ti

President Bualpui VC President New Dial Village Council/Court TumpuiVC Kolasib New Diakkawn ATKIN Secretary President rage Council ea Council /Co Kolasit, Tumul LALIMINGHLY Range Officer Villi Ehingdaw WCCourt Kolasib Forest Range Thingdawl Range Forest Officer Central Forest dange Kolasib, Millouin

Annexure - VIII13

APPROVAL OF DISTRICT LEVEL STEERING COMMITTEE ON 'GREEN INDIA MISSION' FOR THE CONVERGENCE PROPOSAL OF THE PERSPECTIVE PLAN FOR KOLASIB DISTRICT

This is to certify that the District Level Steering Committee for Green India Mission, Kolasib District in its meeting held in the office chamber of the Deputy Commissioner, Kolasib District on 6.2.2015 approved the activities proposed under convergence incorporated at chapter 5 of the Perspective Plan for the selected two landscapes at Dumkhel ram and Serlui hnar in Kolasib District under Green India Mission.

Jitendee (JITENDER YAD

19.2.15

(JITENDER YADAV) (LALTHLAMUANA PACHUAU) Deputy Commissioner & Chairman DFO & Member Secretary District Level Steering Committee for Green India Mission Kolasib District : Mizoram

DISTRICT LEVEL STEERING COMMITTEE ON GREEN INDIA MISSION

.

ATTENDANCE SHEET

SI. No.	NAME	DESIGNATION	Phone No.	Signature
1	KH THANGCOTURS ALLASA.	SER. Soil.	7436152463	42.
2	Dr. Lalbigken ala Sinto	Vetu. Officer	9436148207	- Chi
3	Lolebandama	EJE(MID)	9436154530	Anding
4	H. Lalchhen dama	J.t. V/c	9862325430	, the
5	Lathuring hlun	R.D. (Forand)	9436763916	le
6	Lalminhlua	P.D. DRDA.	9436143053	dans
7	K. Vanlal suati-	Socisi	9436147688	P.
8	Zohningmanni	A.20	8415848584	-dt-of-le-
9	Lal out anna	SPO	9862771339	Vel
10	Lalthannuana Pachuan	DFO	9436141357	Decice
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No.B. 11016/16/2011 - FST

Government of Mizoram Environment and Forests Department

NOTIFICATION

Dated the 11th Nov' 2014

In the interest of public service, the Governor of Mizoram is pleased to constitute State Forest Development Agency for "Green India Mission", State Level Steering Committee, GIM Cell, Revamped FDA, District Level Steering Committee and Village Level Green India Mission Committee for the State of Mizoram under Environment and Forests Department, Government of Mizoram with immediate effect and until further order:-

A. State Forest Development Agency for "Green India Mission"/State Mission Directorate

General Body:

]	Ι.	Hon'ble Minister, Environment and Forests, Mizoram	-	Chairperson
2	2.	Principal Chief Conservator of Forests	-	Member Secretary
. 3	3.	Chief Wildlife Warden	-	Member
. 4	١.	Addl. Principal Chief Conservator of Forests		Member
5	i.	Chief Conservator of Forests (Admn.)	-	Member
6		Chairman, Executive Committee, all FDAs		
7	•.	Member-Secretary, Executive Committee, all FDAs	-	Member
8		Nodal Officer, State CAMPA	-	Member
9		Nodal Officer, Forest Conservation	-	Member
1	0.	President, CYMA	-	Member
1	1.	President, MUP Hqrs	-	Member
12	2.	President, MHIP Hqrs	-	Member
13	3.	Chief Conservator of Forests (P&D) & Nodal Officer.		
		,		

Green India Mission

OFFICE OF THE CF (NC) MIZORAM R. No. 1702 Date 13-11-14 File No.

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Member

Terms of reference:-

The State Mission Directorate (General Body) will meet at least once in a year. The Directorate will provide overall guidance for effective implementation of "Green India Mission" in the State. It will also oversee implementation of the broad policy framework-in achieving Mission goals and objectives.

Executive Committee

			Chairperson
1.	Principal Chief Conservator of Forests	-	
2.	Addl. Principal Chief Conservator of Forests	-	Member
3.	Chief Wildlife Warden	-	Member
		-	Member
4.	Chief Conservator of Forests (Administration)		1 Jackson
5.	Nodal Officer, Forest Conservation	-	Member
6.	Chairman, Executive Committee of 3 FDAs	÷	Member
7.	Member Secretary, Executive Committee of 3 FDAs	-	Member
8.	Nodal Officer, State CAMPA	-	Member
	1.		Member
9. 🗸	Conservator of Forests (R&D)	-	
10.	Head, Forestry Department, Mizoram University	-'	Member
11.	Representative, Central Agriculture University, Selesih	-	Member
	President, CYMA		Member
	President, MUP Hqrs	-	Member
			N () .
14.	Representative each from Finance, Planning,	-	Member
	Rural Development, Science & Technology,		

Agriculture, Social Welfare and Local Administration

Department of the State

15. Chief Conservator of Forests (P&D)

Member Secretary

Terms of reference:-

The Executive Committee will meet at least twice in a year. The committee is entrusted with the following functions:

- 1. Approval of Perspective Plan as well as Annual Plan of Operations;
- 2. Preparation of annual reports on GIM implementation in the State;
- 3. Programmatic convergence at the landscape level.

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State Level Steering Committee for "Green India Mission" B.

10	-	Chairperson
 Chief Secretary Principal Chief Conservator of Forests 		Member Secretary
	-	Member
3. Principal Secretary, Finance	-	Member
4. Principal Secretary, Planning	-	Member
5. Principal Secretary, Environment & Forests	-	Member
6. Principal Secretary, Rural Development	-	Member
7. Principal Secretary, Agriculture	æ	Member [.]
8. Secretary, Soil & Water Conservation	-	Member
9. Secretary, Social Welfare	-	Member
10. Secretary, Local Administration Department	-	Member
11. A representative of the Ministry of		
Environment, Forests and Climate Change	-	Member
12. Addl. Principal Chief Conservator of Forests	2	Member
13. Chief Conservator of Forests (Admn.)	-	Member
14. Chief Conservator of Forests (P&D)	_	Member
15. Chief Wildlife Warden		Member
16.~All Conservators of Forests		Member
17. Director, Agriculture Department	ī	
18. Director, Horticulture Department	-	Member
19. Director, Soil & Water Conservation	-	Member
20. Director, Sericulture Department	-	Member
21. Director, AH & Vety. Department	-	Member
22. Director, Fisheries Department	-	Member
23. Project Director, MIRSAC	-	Member
24. Representative, Sc. & Technology Wing (Planning Board)		Member
25. Head, Forestry Department, Mizoram University	-	Member
26. Representative, Central Agriculture University, Selesih	-	Member
27. President, CYMA	· -	Member
28. President, MUP Hqrs	-	Member
		•
		*

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Terms of reference:-

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1. To provide for overall guidance and synergy with other programmes so as to ensure interdepartment coordination and convergence;

To approve Annual Report for "Green India Mission"; 2.

- To monitor progress of fund utilization under "Green India Mission"; 3.
- To work as empowered Committee for approval of perspective plan as well as annual work 4. programme under "Green India Mission"

The State Level Steering Committee will meet at least once in six months.

GIM Cell under Environment & Forests Department/Nodal Agency: C.

1.	Principal Chief Conservator of Forests		()	Chairman
2.	Addl. Principal Chief Conservator of Forests		-	Member Secretary
3.	Chief Wildlife Warden		-	Member
4.	Chief Conservator of Forests (A)		÷ -	Member
5.	Chief Conservator of Forests (P&D)		-	Member
	All Conservators of Forests		-	Member
7.	Divisional Forests Officer, Aizawl Forest Division		-	Member
8.	Divisional Forests Officer, Champhai Forest Division		-	Member
[.] 9.	Divisional Forests Officer, Kolasib Forest Division	•	-	Member
10.	Divisional Forests Officer, Darlawn Forest Division		7	Member
11	Divisional Forests Officer, Thenzawl Forest Division	20	-	Member

Terms of reference:-

To facilitate/finalize preparation of "Perspective Plan" and Annual Plan of Operations for i) approval of SFDA (Executive Committee) and State Level Steering Committee.

- -

- ii) To review the progress of project planning and implementation under "Green India Mission" as per guidelines/advisories issued by the MoEFCC.
- iii) To arrange for proper monitoring of works executed under GIM internally as well as through independent agencies.
- iv) To prepare/finalize annual reports as well as other necessary documents under the mission.

Terms of Reference:-

The Executive Committee (FDA) will meet at least once in a year. The committee will deal with preparation of perspective plan/annual plan and convergence of various programmes.

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District Level Steering Committee E.

1. Deputy Commissioner concerned	-	Chairperson
2. District level officers dealing with expenditure		
in the district to be nominated by the Deputy Commission	ner -	Member
3. District Agriculture Officer	-	Member
4. District Horticulture Officer	-	Member
5. District Officer, Soil & Water Conservation	-	Member
6. District Sericulture Officer	-	Member
7. District AH & Vety. Officer	-	Member
8. District Fisheries Development Officer	- 1	Member
9. Project Director, DRDA	- C2	Member
10. District Social Welfare Officer/Officer i/c of the District f	rom	
Social Welfare Department	-	Member
11. EE, Minor Irrigation/Officer i/c of the District from	×.,	
Minor Irrigation	-	Member
12. Representatives of Village Council	-	Member
13. President, YMA Sub-Hqrs	-	Member
14. President, MHIP Sub Hqrs	-	Member
15. The concerned Range Forest Officer	-	Mømber
16. Divisional Forest Officer (Territorial)		
	-	Member-Secretary

Terms of reference:-

To provide for proper coordination among various departments and facilitate convergence of various programmes so as to achieve the outcomes of "Green India Mission" efficiently.

Revamped FDA for "Green India Mission" D.

General Body

Ge	eneral Body	-	Chairperson .
	Conservator of Forests concerned		Member
2	Divisional Forest Officer, Resources Survey Division	-	Wiemoei
	Divisional Polest Officer, Resources	-	Member

3. Range Forest Officers, ACFs/SDFOs

4. Presidents of JFMC General Bodies, not more than 50 nt any time, to be nominated by Chairperson on rotational basis for a period of one year, of which 20 would be women representatives. In the event adequate number of women chairpersons is not available, the women representatives will be drawn from the members of the General Bodies of JFMCs. Members

		'	-	Wielinoers
5.	President, Village Council concerned		-	Member
6.	Three non-official representatives to be nominated		- ,	Members
	by the apex institutional framework of Village Council i.e.	LA	D	
7.	Territorial Divisional Forest Officer		-	Member Secretary

Terms of reference:-

The FDA (General Body) will meet at least once in a year. Its basic functions will be to deal with policy issues pertaining to cohesion and convergence of different programmes at the village level for better outcomes from the mission.

Executive Committee

1.	Conservator of Forests concerned	-	Chairperson;
2.	Divisional Forest Officer, Resources Survey Division	-	Member

3. District level officers of Agriculture, Rural Development, Animal husbandry, Soil & Water Conservation, Social Welfare, Local Administration Department, Industries, Public Health Engineering, Horticulture, Minor Irrigation, Small Scale Industries/KVIC, Education Departments and the Lead Bank Officer (to be nominated by concerned DC). N.

Three non-official representatives to be nominated by the apex institutional framework of 4. village council i.e. LAD. Members

- Fifteen nominees from the JFMCs, to include minimum of 7 women- Member 5.
- Chief Executive Officer, FDA . 6.

Member Secretary.

Members

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Terms of Reference:-

The Executive Committee (FDA) will meet at least once in a year. The committee will deal with preparation of perspective plan/annual plan and convergence of various programmes.

E. **District Level Steering Committee**

1.	Deputy Commissioner concerned	100	-	Chairperson
2.	District level officers dealing with expenditure			
	in the district to be nominated by the Deputy Comm	issioner	-	Member
3.	District Agriculture Officer		-	Member
4.	District Horticulture Officer		-	Member
5.	District Officer, Soil & Water Conservation		-	Member
6.	District Sericulture Officer		-	Member
7.	District AH & Vety. Officer		-	Member
8.	District Fisheries Development Officer		-	Member
9.	Project Director, DRDA		-	Member
10.	District Social Welfare Officer/Officer i/c of the Dis	trict from	l l	
	Social Welfare Department		-	Member
11.	EE, Minor Irrigation/Officer i/c of the District from	•		
	Minor Irrigation	۰.	-	Member
12.	Representatives of Village Council		-	Member
13.	President, YMA Sub-Hqrs		-	Member
14. I	President, MHIP Sub Hqrs		-	Member
15. 1	The concerned Range Forest Officer		-	Member
16. I	Divisional Forest Officer (Territorial)	242	-	Member-Secretary

Terms of reference:-

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To provide for proper coordination among various departments and facilitate convergence of various programmes so as to achieve the outcomes of "Green India Mission" efficiently.

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F. Village Level GIM Committee

			-	Chairperson
	1.	Range Officer concerned		Member-Secretary
2	2.	Beat Officer/Forester concerned		Weinber-Beerenary
3	3.	Field officer/staff in-charge of the area from		
		Agriculture, Horticulture, Soil & Water Conservation,	-	Members
		Sericulture, AH&Vety., Fisheries Department,		
		Rural Development Department, Social Welfare Department.		
4		Two representatives/members of concerned JFMC	-	Members
5.		Two representatives of Gram Sabha/Village Council		Member
6.		Two representatives of prominent NGOs	-	Member
				9 E

Terms of reference:-

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- 1. To render support in the preparation of Perspective Plan.
- To ensure implementation of planned and approved schemes (approved by the State Level Steering Committee and MoEFCC) with expected level of quality.
- 3. To promote active people's participation in the implementation of "Green India Mission".
- 4. To provide feedbacks timely to concerned authorities for further improvement in programme implementation.

This supercedes earlier Notification issued vide no. B:11016/16/2011-FST dated 22.03.2012.

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Sd/- LALRAM THANGA

Principal Secretary to the Govt. of Mizoram Environment & Forests Department

Memo No.B. 11016/16/2011-FST

Copy to :-

1. Secretary to Governor, Mizoram.

2. Principal Secretary to Chief Minister, Mizoram.

- 3. P.S to Speaker/Ministers/Minister of State/Deputy Speaker, Mizoram.
- 4. P.S to all Parliamentary Secretaries, Government of Mizoram.
- 5. PPS to Chief Secretary, Government of Mizoram.
- 6. All Principal Secretaries/ Commissioners/Secretaries, Govt. of Mizoram.
- 7. All Head of Department, Mizoram.
- 8. All Deputy Commissioners, Mizoram.
- 9. Principal Chief Conservator of Forests, Mizoram.
- 10. Additional Principal Chief Conservator of Forests, Mizoram.
- All Chief Conservator of Forests, Environment & Forests Department, Government of Mizoram.
- 12. All Conservator of Forests, Environment & Forests Department, Government of Mizoram.
- 13. Chief Wildlife Warden, Mizoram.

14. All Divisional Forests Officer, Mizoram.

45. All Members concerned.

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16. Guard File.

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Under Secretary to the Govt. of Mizoram, Environment & Forests Department

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Minutes of the meeting (State Mission Directorate - GIM)

As per advisories/guidelines issued by the Ministry of Environment & Forests (MoEF), the State Government has constituted "State Mission Directorate" to suggest suitable strategies and provide necessary directions for implementing Green India Mission (GIM) effectively in Mizoram. The first meeting of the State Mission Directorate was held on 11.07.2014 in the Secretariat's Conference Hall. The meeting was chaired by Pu Lalrinmawia Ralte, Hon'ble Minister, Environment & Forest, Government of Mizoram and Chairman of the State Mission Directorate. The list of officers, who attended the meeting, is at the annexture.

Hon'ble Minister, Environment & Forests welcomed all members of the Mission Directorate and distinguished invitees for the meeting. He expressed that need-based planning under GIM and proper execution of well-planned projects will provide adequate livelihood support to the people while maintaining ecological stability in the State. He further stated that efforts to achieve environmental security will also contribute significantly to the process of arresting climate change and addressing its impact on the people.

Emphasizing upon the importance of GIM, Hon'ble Minister, Environment & Forests advised all concerned departments to work together and apply convergence principles so as to achieve mission outcomes/targets efficiently. He expressed that direct/up-front consultation with all stakeholders including village-based organizations, conservation-oriented NGOs and academic/technical experts would be required for designing scientifically-sound site-specific interventions aimed at getting sustainable delivery of maximum eco-system services from the forests. He further advised concerned officers of line departments to go through GIM guidelines and related documents carefully and suggest suitable results-oriented measures in larger public interests as per the mission guidelines for implementing GIM effectively in the State,

PCCF and Principal Secretary (E&F) emphasized upon the following issues of relevance concerned with planned implementation of GIM in his opening remarks:-

• The State of Mizoram is also witnessing impacts of global climate change i.e. changing trends in temperature and precipitation over the years. The "Green India Mission", which is one of the eight missions under India's National Action Plan on Climate Change, is aimed at addressing regional concerns of climate change thereby providing sustainable livelihood support and creating healthy environment for the people.

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PCCF Office Issue No. 289 Date .1.7.7.7.2014

- Execution of projects under GIM will contribute substantially to achieve the goal of having two-third of the State's geographical area under forest or tree cover as enshrined in the National Forest Policy 1988. This is required to prevent erosion and land degradation in the hills and mountainous regions.
- There is a need to design a model to work through convergence of various ongoing schemes and achieve the twin objectives i.e. provide sustainable livelihood support to the people and ensure ecological security in the State. Suitably-designed such model may be implemented initially in landscapes (51 villages) identified presently for treatment under GIM.
- Maximum possible co-operation of the concerned line departments would be required for achieving the GIM objectives efficiently.
- The field forest officers engaged in GIM implementation should endeavour to work closely with the local communities as building up mutually-beneficial trust-worthy relationship between the forests, the people, and the State would be extremely useful in achieving the mission targets with desired level of quality.

CCF (P&D) gave a power-point presentation explaining background of the mission, its objectives, mission strategies, structure of various organizations involved in implementing the mission strategies, implementation schedule (time-frame), sub-missions and cross-cutting interventions envisaged for the mission, landscape details etc. In the presentation, he highlighted the following:-

- The entire State has been identified as "Landscape of Interest/Importance" i.e. L1 for
 possible coverage under the mission. In the initial phase, 8 operational units (L2) in five
 forest divisions and 51 working units (L3) have been identified / prioritized for immediate
 treatments as per the criteria given by the Ministry of Environment and Forests (MoEF) for
 landscape identifications.
- Bridge Plan for Rs. 223.65 lakhs has been sanctioned by the MoEF for taking up out-reach activities, micro-planning, landscape survey, entry-point activities etc.
- Situation/problem analysis for all L2/L3 is required to be carried out in consultation with all stakeholders so as to identify drivers of degradation. Stakeholder's participation (participatory planning) is a necessity as GIM is a multi-stakeholder, multi-sectoral, and multi-departmental mission.

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- Micro-plan/perspective plan would be a tool to facilitate transition from vicious cycle
 (consisting of environmental degradation, decreased crops productivity, and poverty) to virtuous cycle leading to sustainable socio-economic prosperity in eco-friendly surroundings.
 Focus may be on restoration of degraded eco-system, water security, enhancement of crops
- Focus may be on restoration of degraded eco-system, water security, value addition, (agricultural, horticultural and forests) productivity, energy security, value addition, marketing linkages for value-added produce etc.
- Training of educated youth for making them self-employable with sustainable use of available natural resources may be a viable option for livelihood support.

Thereafter, various matters concerned with planned implementation of the GIM in the State were discussed in detail and the following decisions were taken:-

Strategies for implementation of 'Bridge Plan' and preparation of 'Perspective Plan'

- All stakeholders including village communities, concerned/line departments in the district, conservation-oriented NGOs and academic/technical experts may be consulted for implementing "Bridge Plan" and preparing "Perspective Plan" for landscapes prioritized for treatment under GIM.
- As approved by the State Government, "Bridge Plan" may be implemented by following the fund transfer mechanism involving SFDA (State Forest Development Agency), FDAs (Forest Development Agencies) and VFDCs (Village Forest Development Committees). However, all concerned DFOs may obtain suitable inputs from various line departments in the district and other stakeholders for deciding specific work activities as per GIM guidelines/advisories.
- "Brigde Plan" may be executed strictly as per the approved items of works and as per the guidelines/advisories circulated by the MoEF for GIM implementation.
- While preparing perspective plan, needs of the local communities as well as existing site conditions such as agro-climatic zone, altitude, soil type etc. may be considered.
- "State Action Plan on Climate Change" prepared by the Science and Technology Department of the State may also be referred to for preparing "Perspective Plans".
- The concerned line departments may share their data/records with GIM cell for facilitating timely preparation of required perspective plans.
- Digitized maps i.e. geographical map, watershed map, contour map, land-use map, vegetation map etc. are required to be prepared for all L2 and L3. These maps would provide vital technical inputs for preparing micro-plans/perspective plans. For the purpose, MIRSAC

may submit proposal to GIM cell in PCCF's for sharing existing data and preparing addition vailability of relevant data, cost -frame for providing required

GIM cell in PCCF's office, in consultation with lin _____partments and other stakeholders, may prepare a model to work through convergence of all on-going schemes in identified landscapes as GIM cannot be a 'stand alone' project.

Modifications in constitution of various GIM committees

- Planning Department, Finance Department, AH & Vety. Department and Fisheries . Department may also be included in the State Mission Directorate for GIM.
- All concerned DFOs i.e. DFO (Aizawl, Champhai, Kolasib, Darlawn and Thenzawl) may be included in GIM cell.
- In the Division Level GIM Committee, DC may be the Chairman and DFO Member-Secretary. Further, all line departments involved in GIM implementation at the district level and concerned ROs may be included as members of the division level committee.
- GIM cell in PCCF's office may prepare proposal for modifications in the GIM committees including ToR as per applicable guidelines and submit it to the State Government for approval.

State level workshop

The proposed 'State Level Workshop' on GIM may be held during 2nd week of August, 2014. Other items

- Guideline on GIM in brief may be prepared in Mizo language for facilitating easy understanding by the local people.
- GIM cell in PCCF's office may provide copies of guidelines, advisories, Bridge Plans and • other relevant documents to concerned line departments and other stakeholders for their knowledge and submission of suggestions on ways to implement GIM effectively in the state.
- Success/performance indicators as well as methods to measure these indicators may be developed in advance and incorporated in the "Perspective Plans".

In his concluding remarks, Pu Rosiama Vanchhawng, APCCF, emphasized upon the importance of GIM for the people of Mizoram. He expressed that the implementation of GIM in convergence with other on-going schemes would bring substantial benefits to the people in

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healthy environment. He requested all stake holders to work together so as to get maximum sustainable benefits from the mission.

Sd/-(LALRINMA WIA RALTE) MINISTER. E & F & CHAIRMAN STATE MISSION DIRECTORATE GREEN INDIA MISSION MIZORAM

Memo No. B. 13011/1/2011 – PCCF/45 Copy to: Dated 15 July. 2014

- 1. P.S. to Hon'ble Minister, Environment & Forests, Mizoram.
- 2. P.S. to Principal Chief Conservator of Forests.
- 3. P.S. to Addl. Principal Chief Conservator of Forests.
- 4. Chief Conservator of Forests (Admn.)
- 5. Chief Conservator of Forests (P&D)
- 6. Chief Wildlife Warden.
- 7. All Conservators of Forests.
- 8. Director, Agriculture Department.
- 9. Director, Horticulture Department.
- 10. Director, Soil & Water Conservation.
- 11. Director, Sericulture Department.
- 12. Project Director. MIRSAC.
- 13. Representative, Sc. & Technology Wing (Planning Board).
- 14. Head, Envt./Forestry Department, Mizoram University.
- 15. Representative, Central Agriculture University, Selesih.
- 16. All DFOs / DCFs

(LALRAM THANGA) Principal Chief Conservator of Forests & Principal Secretary (E&F) Member Secretary

5

MINUTES OF THE MEETING OF DISTRICT LEVEL STEERING COMMITTEE ON GREEN INDIA MISSION, KOLASIB DISTRICT

Venue : Office chamber of Deputy Commissioner, Kolasib

Time : Dt. 06.02.2015 - 2:00 PM

Members present : List appended.

The meeting was presided over by Pu Jitender Yadav, DC, Kolasib & Chairman of Kolasib District Level Steering Committee on Green India Mission. After welcoming the members, the chairman invited the Member Secretary to give the background information about Green India Mission and the purpose of the meeting.

Pu Lalthlamuana Pachuau, the Member Secretary then gave a brief background information about Green India Mission which is one of the eight missions for achieving the National Action Plan on Climate Change and how the mission has been launched and initiated in Mizoram. He informed that the District/Division Level GIM Committee meeting under the chairmanship of the DFO was held at Kolasib New Diakkawn Hall on 22.8.2014 and that Village level meeting on GIM has also been held at Serkhan, Bairabi, Thingdawl, Tumpui and Bualpui on 7.8.2015, 12.8.2015, 5.9.2014, 6.9.2014 and again on 5.9.2015 respectively. The District/Division Level GIM Committee initially constituted with DFO as chairman and ACF, ROs and local NGOs as members by the Government on 22.3.2012 has been modified and reconstituted as District Level Steering Committee on GIM with the DC as chairman and Heads of Offices of appropriate line Departments as members by the Government on 11.11.2014, and the terms of reference of the Committee is to provide for proper coordination among various departments and facilitate convergence of various programmes so as to achieve the outcome of Green India Mission efficiently.

The Committee was also informed that in Mizoram, Green India Mission is being implemented initially in four Districts, namely, Aizawl, Champhai, Serchhip and Kolasib districts and that two landscapes (L2) at Dumkhel ram and Serlui hnar under Kolasib District have been selected for treatment under GIM and villages (L3) involved are Thingdawl, Bualpui, New Diakkawn, Tumpui, Pangbalkawn, Meidum and Dilzau in Dumkhel ram landscape, and Kawnpui I, Zanlawn, Nisapui, N.Chaltlang and Bukpui in Serlui hnar landscape. Micro-plans for all these 12 villages have been prepared in consultation with the villagers/Village Forest Development Committees (VFDC) concerned. The Perspective Plans for the two landscapes have also been prepared by incorporating the micro-plans of all the 12 villages/VFDCs. This was followed by discussion on the following agenda item:-

1. Approval of convergence proposal of the Perspective Plan for L2 Landscapes under Kolasib District:

The Member Secretary informed that the purpose of the meeting is to discuss and approve the convergence proposal incorporated in the Perspective Plan for the selected landscapes (Project sites) in Kolasib District. The activities proposed under convergence by the Forest Department in consultation with the villagers and some of the line departments as given in chapter 5 of the Perspective Plan was circulated among the members and after thorough deliberation and inclusion of fresh proposals from other line Departments, the Committee approved the activities proposed under convergence as modified and entered in chapter 5 of the Perspective Plan for the two landscapes at Dumkhel ram and Serlui hnar under Kolasib District.

The meeting ended with vote of thanks from the chair.

(JITENDER YADAV) 12/15

Deputy Commissioner & Chairman, District Level Fire Prevention Committee Kolasib District : Kolasib

Memo No. B.13024/1/2012-DFO(K)/ Copy to :

Dated Kolasib, the _____ Feb, 2015.

1. The Principal Chief Conservator of Forests, Mizoram, Aizawl.

:

- 2. Conservator of Forests, Northern Circle, Aizawi.
- 3. All members of Kolasib District Steering Committee on GIM.

(LALTHLAMUANA PACHUAU) Divisional Forest Officer & Member Secretary District Level Firc Prevention Committee Kolasib District : Kolasib

MINUTES OF THE MEETING OF VILLAGE LEVEL COMMITTEE OF GREEN INDIA MISSION(GIM)

Venue : Forest Rest House Bairabi Rang Complex Time : 12th August, 2014 Members present : Enclosed

Meeting Chairman, Range Officer Bairabi in tawi fel takin Green India Mission(GIM) awm zia leh a thil tum te a sawi fiah a Hemi hnu hian Kolasib ACF Pu Lalbiakchama Chawngthu chu GIM chungchang Power Point Presentation nei turin a sawm leh a. Meeting a tel member ten zawh na hrang hrangte an zawt bawk a. Heng zawh na te hi Forest Department lam hotuten an chhang zel bawk a. Green India Mission(GIM) hi Mission tha leh awmze nei tak tur ni in member ten ka hria a ni. Power point presentation te zawh a nih hnu hian a hnuai a mi ang hian hmalak zel dan tur te rel ani.

- Power Point Presentation ACF Kolasib in apek hi a bengvar thlak hle a.Chuvangin member tam zawk leh midang vawiin a tel ve thei lo te lo hriat ve atan Mizo tawng ngei in hard copy sem theih ni se kan ti.
- 2) Sub-Mission leh Cross cutting intervention a hmalak na tul te hi khawtinten mahni khua theih ah lo rel fel a. Bial tu Rang Officer te emaw,forest field staffs remchang hnenah pek mai ni se kan ti bawk.
- 3) Vawiin a Village level meeting a tel zawng zawng khuate hian GIM hi kan khua a implement turin kan rem ti.
- Awareness hi tun aiia tam hi neih ni se kan ti

Dilzau VC

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President Pangbalkawn VC

(H. VANLALT_UANCA) ZZCALLA Presidentaent

Range Officer

VMgghu Govilcil/CourBairabi Forest Range

President "Court 1

(P.C. LIANZUALA) Range Forest Officer Bairabi Forest Range Bairabi : Mizoratu

MINUTES OF THE MEETING OF VILLAGE LEVEL COMMITTEE OF GREEN INDIA MISSION(GIM)

Venue : Community Hall New Diakkawn Kolasib Time : 22th August, 2014 Members present : Enclosed

Meeting Chairman, Range Officer Kolasib Forest Range in tawi fel takin Green India Mission(GIM) awm zia leh a thil tum te a sawi fiah a Hemi hnu hian Kolasib ACF Pu Lalbiakchama Chawngthu chu GIM chungchang Power Point Presentation nei turin a sawm leh a. Meeting a tel member ten zawh na hrang hrangte an zawt bawk a. Heng zawh na te hi Forest Department lam hotuten an chhang zel a. Green India Mission(GIM) hi Mission tha leh awmze nei tak tur ni in member ten an hria a ni. Power point presentation te zawh a nih hnu hian a hnuai a mi ang hian hmalak zel dan tur te rel ani.

1)Sub-Mission leh Cross cutting interventions hnuai a hmalak na tul te hi khawtinten mahni khua theih ah lo rel fel a. Bial tu Rang Officer te emaw, forest field staffs remchang hnenah pek mai ni se kan ti .

2)Vawiin a Village level meeting a tel zawng zawng khuate hian GIM hi kan khua a implement turin kan rem ti.

3)Power Point Presentation ACF Kolasib in a pek hi a bengvar thlak hle a.Chuvangin member tam zawk leh midang vawiin a tel ve thei lo te lo hriat ve atan Mizo tawng ngei in hard copy sem theih ni se kan ti. Awareness hi tun aiia tam hi neih ni se kan ti

President Bualpui VC President New DiakkaWhWC Village Council/Court TumpuiVC KRUATKIN Kolasib New Diakkawn Secretary President age Council e Council /Co Kolasit, Tumul ne: 1k LALHMINGHLY Range Officer Villighingdaw WCCourt Kolasib Forest Range Thingdawl Range Forest Officer Central Forest dange Kolasib, Mi diath

MINUTES OF THE MEETING OF VILLAGE LEVEL COMMITTEE OF GREEN INDIA MISSION(GIM)

Venue : MGNREGS Hall,Zanlawn Time : 7th August, 2014 Members present : Enclosed

Meeting Chairman,Pu Vanlalruata, Range Officer Kawnpui Forest Range chuan memeber lokal te a welcome a.Hemi hnu hian tawi fel takin Green India Mission(GIM) awm zia leh a thil tum te a sawi fiah a Hemi hnu hian Kolasib ACF Pu Lalbiakchama Chawngthu chu GIM chungchang Power Point Presentation nei turin a sawm leh a. Meeting a tel member ten zawh na hrang hrangte an zawt bawk a. Heng zawh na te hi Forest Department lam hotuten an chhang zel a. Green India Mission(GIM) hi Mission tha leh awmze nei tak tur ni in member ten an hria a ni. Power point presentation te zawh a nih hnu hian a hnuai a mi ang hian hmalak zel dan tur te rel ani.

1)Sub-Mission leh Cross cutting interventions hnuai a hmalak na tul te hi khawtinten mahni khua theih ah lo rel fel a. Bial tu Rang Officer te emaw,forest field staffs remchang hnenah pek mai ni se kan ti.

2)Vawiin a Village level meeting a tel zawng zawng khuate hian GIM hi kan khua a implement turin kan rem ti.

3)Power Point Presentation ACF Kolasib in a pek hi a tha hle a.Chuvangin member tam zawk leh midang vawiin a tel ve thei lo te lo hriat ve atan Mizo tawng ngei in hard copy sem theih ni se kan ti. Awareness hi tun aiia tam hi neih ni se kan ti

BIAKHLUA President

Byksiekic Kutona council/Court

Kawnpui President Village Councl/(Court Pawnpui - 1 KAML AWMA IPEesident Milde CoaltangriCourt N. Challang

Zanlawn Yeni Mage CompciliCom Zanto

Kawnpui Forest Bange

President Lungmuat VC Fresident, Village Council/Court, Lungmuat

Annexure - VIII13

APPROVAL OF DISTRICT LEVEL STEERING COMMITTEE ON 'GREEN INDIA MISSION' FOR THE CONVERGENCE PROPOSAL OF THE PERSPECTIVE PLAN FOR KOLASIB DISTRICT

This is to certify that the District Level Steering Committee for Green India Mission, Kolasib District in its meeting held in the office chamber of the Deputy Commissioner, Kolasib District on 6.2.2015 approved the activities proposed under convergence incorporated at chapter 5 of the Perspective Plan for the selected two landscapes at Dumkhel ram and Serlui hnar in Kolasib District under Green India Mission.

Jitendee (JITENDER YAD

19.2.15

(JITENDER YADAV) (LALTHLAMUANA PACHUAU) Deputy Commissioner & Chairman DFO & Member Secretary District Level Steering Committee for Green India Mission Kolasib District : Mizoram

DISTRICT LEVEL STEERING COMMITTEE ON GREEN INDIA MISSION

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ATTENDANCE SHEET

SI. No.	NAME	DESIGNATION	Phone No.	Signature
1	KH THANGCOTLEAS ALLASA.	SER. Soil.	9436152463	Az_
2	Dr. Lalbigkenug la Sinto	Vetu. Officer	9436148207	- Chi
3	Lolebandama	EJE(MID)	9436154530	Virin
4	H. Lalchhen dama	J.t. V/c	9862325430	, Sec
5	Latharing hlun	R.D. (Forand)	9436763916	le
6	Latminhlia	P.D. DRDA.	9426143053	dans
7	K. Vanlal suati-	Soors	9436147688	P.
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Forest Development Agency(FDA),Kolasib in Green India Mission(GIM) hnuaia kan khua <u>DILZAU</u> a kum 2014-15 atanga 2022-23 chhunga a hmalakna tur a tan a a siam Microplan hi kan hriatpui in, tha kan ti a, kan pawmpui e

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(Secretary Village Council Dilzau	(President Village Council Dilzau

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Forest Development Agency(FDA),Kolasib in Green India Mission(GIM) hnuaia kan khua <u>MEIDUM</u> a kum 2014-15 atanga 2022-23 chhunga a hmalakna tur a tan a a siam Microplan hi kan hriatpui in, tha kan ti a, kan pawmpui e

Signature President

Meidula

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Signature

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Secretary Village Council Meidum (H. VANLALTZUANGA)) President Village Council

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Meidum

President Village Council/Court Meidum

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Forest Development Agency(FDA),Kolasib in Green India Mission(GIM) hnuaia kan khua <u>PANGBALKAWN</u> a kum 2014-15 atanga 2022-23 chhunga a hmalakna tur a tan a a siam Microplan hi kan hriatpui in, tha kan ti a, kan pawmpui e

Signature

Signature

(HEHRY M.S. TWANGA HAUKEL

Secretary Village[®]Council ^{ge} Council/Count Pangbalkawn Rangbalkawn

em

VA-NO AL.AWIA

)

President Village Council Pangbalkawn Vill Coun WCourt

Annexuer TX

Kan khua atan a GIM (Green India Mission) Scheme atan a activities hrang hrangte hi tha kan ti a, kan pawm e.

TLBPAKZINUV

V/C Secretary Secretary Village Council N. Chaltlang

&Am LACOMIS

V/C President

President Village Council / Court N. Chaltlang

Annearer- K

Ka khua atana GIM (Greening of India Mission) Scheme atana Activities hrang hrangte hi tha kan ti a, kan pawm e.

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CBIAKHE -UA)

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Signature Village Council President With Seal

President Village Council/Cou Bukpui

P 1 \$ 2005 CLALNGHAKLIANIA)

Signature Village Council Secretary With Seal

Secretary Village Council/Court Bukpui

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Forest Development Agency(FDA),Kolasib in Green India Mission(GIM) hnuaia kan khua <u>TUMPUI</u> a kum 2014-15 atanga 2022-23 chhunga a hmalakna tur a tan a a siam Microplan hi kan hriatpui in, tha kan ti a, kan pawmpui e

C. lu Signature

Signature

F. LAUSTLANITLUA -)

Secretary Village@Council Village Council / Court Kolasib, Tumpui

(C. ROTHUAM LUAM

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President President Communcil

Forest Development Agency(FDA),Kolasib in Green India Mission(GIM) hnuaia kan khua <u>NEW DIAKKAWN</u> a kum 2014-15 atanga 2022-23 chhunga a hmalakna tur a tan a a siam Microplan hi kan hriatpui in, tha kan ti a, kan pawmpui e

Signature Signature 2/15 CLALREMTWANGA

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Secretary Village Council New Diakkawn

Secretary, Village Council/Couft Kolasib New Diakkawtł

) HINUNA) Presidentant Court kawn

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Forest Development Agency(FDA),Kolasib in Green India Mission(GIM) hnuaia kan khua <u>THINGDAWL</u> a kum 2014-15 atanga 2022-23 chhunga a hmalakna tur a tan a a siam Microplan hi kan hriatpui in, tha kan ti a, kan pawmpui e

Signature muncil/Court Willage C Thingdasel Signature President Village Council / Court Thingdawl (T. LALNGATIFAWMA Secretary Village Council 1111

VR. KATOMAWTA.) (President, VIIIa e'Councilount Thingdawl

				Cost		--												
S.	Submission/	Category	Туре	Norm	1st (2017-18)		2nd (2018-19)	3th (2	2019-20)	4th (2	2020-21)	5th (2021-22)		6th (2022-23)			Total
N.	Intervention			(Rs./ha)	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A. C	ost norms for Sub	Missions and	Intervention															
			ANR (Without Plantation) 180 Plants/Ha															
		a)	a) Advance work	9,450	30	2.84											30	2.835
		Moderatel y dense	b) Bal. of adv.work (2016-17)	4,050	25	1.01											25	1.013
		forest	c) Creation	15,660	25	3.92	30	4.70		0.00		0.00					55	8.613
		cover, but	d) Mnt.1st year	9,720		0.00	25	2.43	30	2.92		0.00					55	5.346
		showing	e) Mnt.2 year	3,510		0.00		0.00	25	0.88	30	1.05					55	1.931
		degradatio n	f) Mnt.3st year	2,160		0.00		0.00		0.00	25	0.54	30	0.65			55	1.188
			Total	40,500	55	7.76	55	7.13	55	3.79	55	1.59	30	0.65	-	0.00	275	20.277
			200 plants/Ha (Type A)															
			a) Advance work	8,100	40	3.24		0.00	-	0.00	-	0.00					40	3.240
			b) Bal. of adv.work (2016-17)	1,350	30	0.41											30	0.405
			c) Creation	15,390	30	4.62	40	6.16		0.00		0.00					70	10.773
			d) Mnt.1st year	8,100		0.00	30	2.43	40	3.24		0.00					70	5.670
	Sub Mission 1:		e) Mnt.2 year	6,480		0.00		0.00	30	1.94	40	2.59		0.00			70	4.536
	Enhancing		f) Mnt.3st year	5,130		0.00		0.00		0.00	30	1.54	40	2.05		0.00	70	3.591
	quality of forest		Total	43,200	70	8.26	70	8.59	70	5.18	70	4.13	40	2.05	-	0.00	350	28.215
1	cover and improving		1100 plants/Ha (Type B)															1
	ecosystem		a) Advance work	18,360														0.000
	services	b) Eco- restoration	b) Bal. of adv.work (2016-17)	7,290														0.000
		of	c) Creation	36,450														0.000
		degraded	d) Mnt.1st year	11,340														0.000
		open	e) Mnt.2 year	8,100														0.000
		forests	f) Mnt.3st year Total	6,750 88,290	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00	-	0.000
			2500 plants/Ha (Type C)	88,290	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00		0.000
			a) Advance work	25,650	45	11.54		0.00		0.00		0.00					45	11.543
			b) Bal. of adv.work	8,640	25	2.16		0.00	_	0.00		0.00					25	2.160
			c) Creation	53,460	25	13.37	45	24.06		0.00		0.00					70	37.422
			,		25		45 25		45								70	
			d) Mnt.1st year	20,250		0.00	25	5.06	-	9.11	45	0.00		0.00			-	14.175
			e) Mnt.2 year	18,090		0.00		0.00	25	4.52	45	8.14		0.00		0.00	70	12.663
			f) Mnt.3st year	17,550		0.00		0.00		0.00	25	4.39	45	7.90		0.00	70	12.285
			Total	135,000	70	27.07	70	29.12	70	13.64	70	12.53	45	7.90	-	0.00	350	90.248

WORK DETAILS UNDER DIFFERENT SUBMISSIONS OF GIM FOR L3 LANDSCAPE "NEW DIAKKAWN" Name of L2 Landscape: Kolasib & Bairabi

			1100 plants/Ha															
			a) Advance work	18,360	35	6.43	60	11.02	-	0.00	-	0.00					95	17.442
	Sub Mission 2:	a)	b) Bal. of adv.work	7,290	27	1.97											27	1.968
	Ecosystem	Rehabilitation of	c) Creation	36,450	27	9.84	35	12.76	60	21.87		0.00					122	44.469
2	restoration	Shifting	d) Mnt.1st year	11,340		0.00	27	3.06	35	3.97	60	6.80					122	13.835
	and increase in	Cultivation	e) Mnt.2 year	8,100		0.00		0.00	27	2.19	35	2.84	60	4.86			122	9.882
	forest cover	Areas	f) Mnt.3st year	6,750		0.00		0.00		0.00	27	1.82	35	2.36	60	4.05	122	8.235
			Total	81,000	62	18.24	122	26.84	122	28.03	122	11.46	95	7.22	60	4.05	610	95.831
	Sub Mission 3:		2500 plants/Ha															
	Enhancing tree cover in Urban		a) Advance work	59,400	10	5.94	-	0.00	-	0.00	-	0.00					10	5.940
	& Peri-urban	a) Plantation	b) Bal. of adv.work	13,500	5	0.68											5	0.675
~	areas (including	in Urban &	c) Creation	81,000	5	4.05	10	8.10		0.00		0.00					15	12.150
3	institutional lands)	Peri-urban	d) Mnt.1st year	59,400		0.00	5	2.97	10	5.94		0.00					15	8.910
	landsy	areas	e) Mnt.2 year	35,100		0.00		0.00	5	1.76	10	3.51					15	5.265
			f) Mnt.3st year	35,100		0.00		0.00		0.00	5	1.76	10	3.51		0.00	15	5.265
			Total	270,000	15	10.67	15	11.07	15	7.70	15	5.27	10	3.51	-	0.00	75	38.205
		a) Farmer's	Farmer's land		-	0.00	-	0.00	-	0.00	-	0.00						
		land including	a) Advance work	13,500	24	3.24	48	6.48	-	0.00	-	0.00					72	9.720
		current fallows	b) Bal. of adv.work	5,130	19	0.97											19	0.975
			c) Creation	20,250	19	3.85	24	4.86	48	9.72		0.00					91	18.428
	Cub Mission		d) Mnt.1st year	7,020		0.00	19	1.33	24	1.68	48	3.37					91	6.388
	Sub Mission 4: Agro-		e) Mnt.2 year	6,750		0.00		0.00	19	1.28	24	1.62	48	3.24			91	6.143
	Forestry and		f) Mnt.3st year	6,480		0.00		0.00		0.00	19	1.23	24	1.56	48	3.11	91	5.897
4	Social Forestry		Total	54,000	43	8.06	91	12.67	91	12.69	91	6.22	72	4.80	48	3.11	455	47.550
4	(increasing	c) Highways/Rural	Roads/Canal/Tak Bun		-	0.00	-	0.00	-	0.00	-	0.00						ļ
	biomass & creating	roads/Canals/	a) Advance work	29,700	7	2.08		0.00	-	0.00	-	0.00					7	2.079
	carbon sink)	Tank Bunds	b) Bal. of adv.work	4,590	5	0.23											5	0.230
			c) Creation	83,700	5	4.19	7	5.86		0.00		0.00					12	10.044
			d) Mnt.1st year	32,400		0.00	5	1.62	7	2.27		0.00					12	3.888
			e) Mnt.2 year	21,600		0.00		0.00	5	1.08	7	1.51					12	2.592
			f) Mnt.3st year	21,600		0.00		0.00		0.00	5	1.08	7	1.51		0.00	12	2.592
			Total	189,000	12	6.49	12	7.48	12	3.35	12	2.59	7	1.51	-	0.00	60	21.425
	[TOTAL OI				86.55		102.89		74.37		43.79		27.64		7.16		341.750
B.	Promoting alternative fuel	Biogas, solar	Per Household	3,300	42	1.39	42	1.39	42	1.39	42	1.39					168	5.544
0.	energy	devices, LPG, etc	Total	3,300	42	1.39	42	1.39	42	1.39	42	1.39	-	0.00	-	0.00	168	5.544
		TOTAL O	FB	3,300	42	1.39	42	1.39	42	1.39	42	1.39	-	0.00	-	0.00	168	5.544

C. Fe	or support activities													
	Activities Cost													'
1	Research (2% of A)	LS	2.39	LS	1.71	LS	1.37	LS	0.68	0.00	0.6	۶ L	.S	6.835
2	Publicity/Media/outreach activities (1% of A)	LS	1.20	LS	0.85	LS	0.68	LS	0.34	0.68	0.3	,4 L'	.S	3.417
3	Monitoring and Evaluation (1% of A)	LS	1.20	LS	0.85	LS	0.68	LS	0.34	0.68	0.3	,4 L'	.S	3.417
4	Livelihood improvement activities, (17% of A)	LS	20.33	LS	14.52	LS	11.62	LS	5.81	0.34	5.8	۰ <u>۱</u> L'	.S	58.097
5	Strengthening local-level institutions (5 % A)	LS	5.98	LS	4.27	LS	3.42	LS	1.71	5.81	1.7	1 L'	.S	17.087
6	Strengthening FDs (5% A)	LS	5.98	LS	4.27	LS	3.42	LS	1.71	5.81	1.7	1 L'	.S	17.087
7	Mission Organisation, operation and maintenance, contingencies and overheads (4% A)	LS	4.78	LS	3.42	LS	2.73	LS	1.37	0.00	1.3	,7 L!	S	13.670
	Total (C)		41.86	LS	29.90	LS	23.92	LS	11.96	13.33	11.9	ر <mark>6 ار</mark>	.5	119.612
	Grand Total (A+B+C)		129.80		134.18		99.68		57.14	40.97	19.1	.2		466.906

SHANNON DIVERSITY INDEX

		-			
	VFDC : New Diakkawn				
					-Pi * In
SI.No	Species	Ni	Pi	In Pi	Pi
1	Dryptes lancifolia	1	0.053	-2.937	0.155
2	Bridelia tomentosa	1	0.053	-2.937	0.155
3	Saraca asoca	1	0.053	-2.937	0.155
4	Euphoria longan	2	0.105	-2.253	0.237
5	Acer laevigatum	2	0.105	-2.253	0.237
6	Maniltoa polyandra	3	0.158	-1.845	0.291
7	Castonopsis tribuloides	1	0.053	-2.937	0.155
8	Terminalia bellirica	1	0.053	-2.937	0.155
9	Drimycarpus racemosus	1	0.053	-2.937	0.155
	Pterospermum				
10	semusagittatum	1	0.053	-2.937	0.155
11	Diospyrus stricta	1	0.053	-2.937	0.155
12	Cordia fragrantissima	2	0.105	-2.253	0.237
13	Rhus sp.	2	0.105	-2.253	0.237
	Total	19		Н	2.477

Plot No 6

Kolasib Range:

Plot No 7 VFDC :Diakkawn

Kolasib Range:

					-Pi * In
SI.No	Species	Ni	Pi	In Pi	Pi
1	Anogeissus acuminata	1	0.043	-3.146	0.137
2	Callicarpa arborea	4	0.174	-1.748	0.304
3	Chukrasia tabularis	1	0.043	-3.146	0.137
4	Ficus fistulosa	4	0.174	-1.748	0.304
5	Ficus prostrata	3	0.130	-2.04	0.266
6	Haldina cordifolia	2	0.087	-2.442	0.212
7	Litsea monopetala	2	0.087	-2.442	0.212
8	Sterculia villosa	2	0.087	-2.442	0.212
9	Toona ciliata	2	0.087	-2.442	0.212
10	Viter peduncularis	2	0.087	-2.442	0.212
	Total	23		Н	2.209

Plot No 8	Range:	Kolasib
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	VFDC : New Diakkawn				
					-Pi * In
SI.No	Species	Ni	Pi	In Pi	Pi
1	Albizzia procera	3	0.061	-2.797	0.171
2	Ficus fistulosa	2	0.041	-3.194	0.130
3	Garuga pinnata	1	0.020	-3.912	0.080
4	Gmelina arborea	23	0.469	-0.757	0.355
5	Oroxylum indicum	1	0.020	-3.912	0.080
6	Sterculia villosa	2	0.041	-3.194	0.130
7	Tectona grandis	17	0.347	-1.058	0.367
	Total	49		Н	1.314

SHANNON DIVERSITY INDEX

	Plot No 31	Range:	Kolasib		
	VDFC : New Diakkawn				
					-Pi * In
SI.No	Species	Ni	Pi	In Pi	Pi
1	Acacia pennata	1	0.02	-3.912	0.064
2	Albizia chinensis	2	0.03	-3.507	0.115
3	Anthocephalus chinensia	1	0.02	-3.912	0.064
4	Artocarpus chaplasha	1	0.02	-3.912	0.064
5	Artocarpus lakoocha	2	0.03	-3.507	0.115
6	Callicarpa arborea	4	0.07	-2.659	0.174
7	Combretum wallichii	1	0.02	-3.912	0.064
8	Ficus fistulosa	24	0.39	-0.942	0.371
9	Garuga pinnata	3	0.05	-2.996	0.147
10	Gmelina arborea	10	0.16	-1.833	0.300
11	Macaranga indica	6	0.10	-2.303	0.227
12	Oreocnide integrifolia	1	0.02	-3.912	0.064
13	Sterculia villosa	5	0.08	-2.526	0.207
	Total	61		Н	1.977

Total of H=7.977 Mean H=1.994

CABON STOCK ESTIMATION

Name of Division		:	Kolasib		
Name of Range		:	Kolasib		
Name of Landscape		:	Kolasib & Bairabi		
Name of VFDC		:	New Diakkawn		
Total Area under VFDC	:			1719	На
Total Forest Area	:			1459	На

		Lattitude	D.M.S	Longitude D.M.S		Volume of	
SI.						Trees in each	
No	Sample Plot No					plot (0.1Ha)	
1	6	24 11 36.50030N		092 40 07.58832E		4.939371	m3 per unit
2	7	24 13 12.55472N		092 39 33.32313E		2.709392	m3 per unit
3	8	24 13 50.98412N		092 39 33.29590E		16.660939	m3 per unit
4	31	24 12 14.91053N		092 39 33.36395E		12.544115	m3 per unit
					Total	36.853817	m3

Multiply Volume of						
trees with						
2.41(Constant)					88.81769897	tonnes per Ha
2 Multiply above with 10				888.1769897	tonnes per Ha	
 Growing stock per Ha(Divide above by No of SP)				222.0442474	tonnes per Ha	

CARBON STOCK CALCULATION

-				
1	Above Ground Biomass (AGB) = G.Sx0.95x0.47	99.14275648	tonnes per Ha	
2	Below Ground Biomass (BGB) =	AGBx 0.37x0.47	17.24092535	tonnes per Ha
(1)	Dead wood Biomass (DWB) = (AGB+ BGB) x0.11		101.0392583	tonnes per Ha
4	Leaf litter Biomass (LBM)		3.271	tonnes per Ha
5	Soil Organic Carbon (SOC)		57.14	tonnes per Ha
6	AGB+BGB+DWB+LBM+SOC= Carbon Stock (CS)		277.8339401	tonnes per Ha

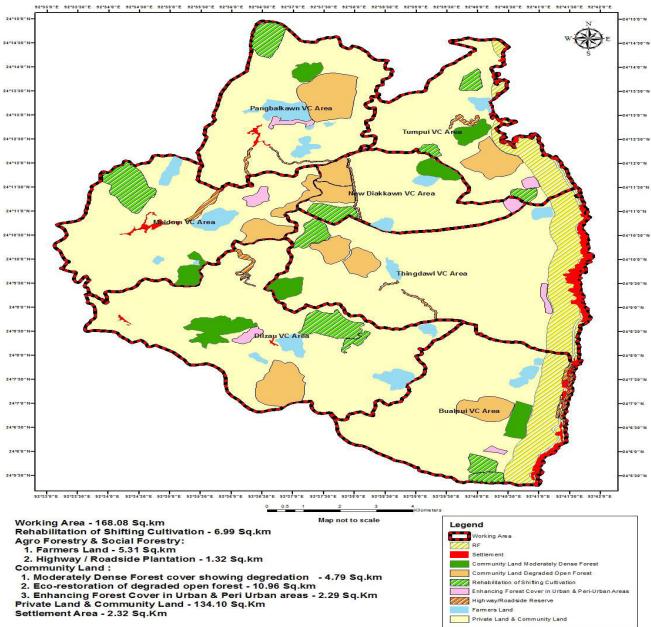
Total Carbon Stock = Carbon stock per Ha x Total Forest area

277.8339401 x1459

405359.7186 Tonnes

=

PROPOSED LANDUSE MAP OF L2 KOLASIB & BAIRABI

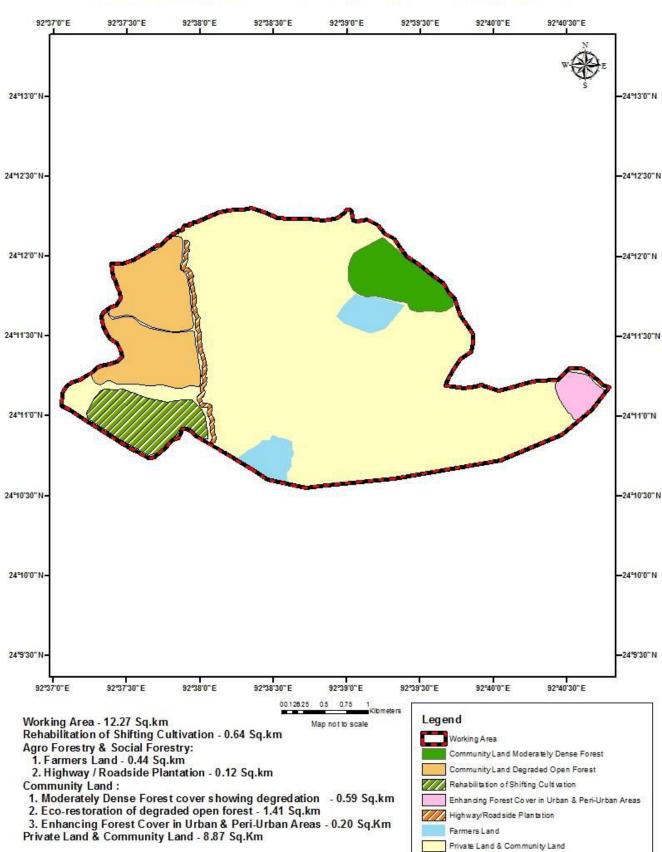


Farmers Land Private Land & Community Land

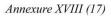
High way/Roadside Reserve

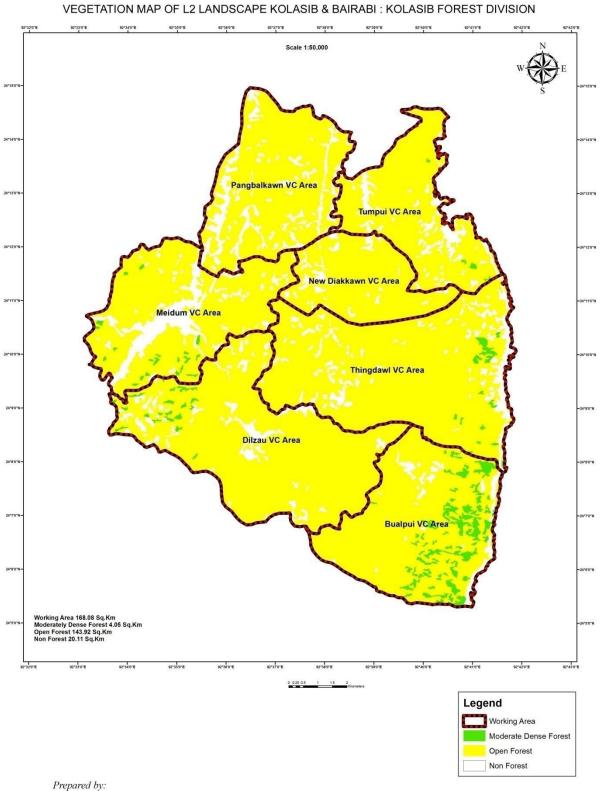
Community Land Moderately Dense Forest Rehabilitation of Shifting Cultivation

Enhancing Forest Cover in Urban & Peri-Urban Areas

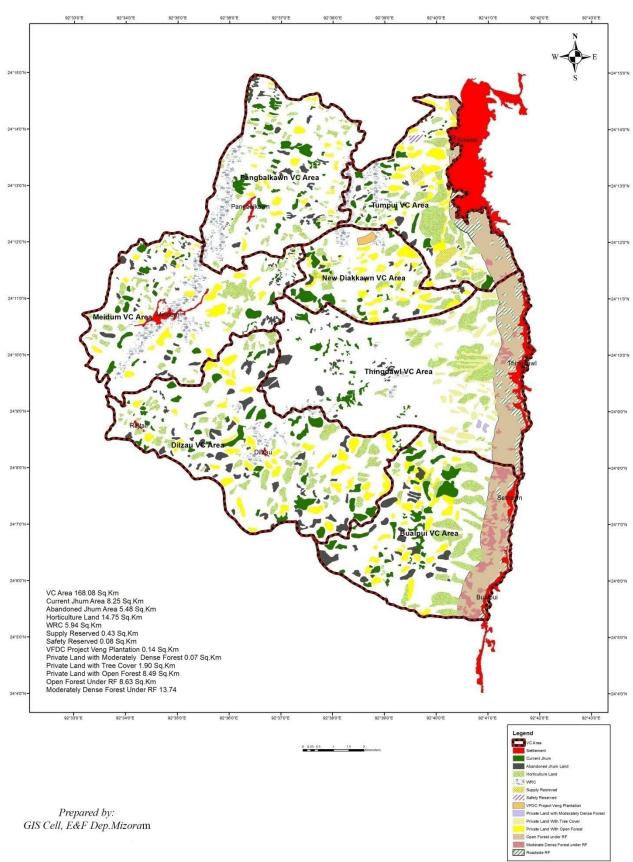


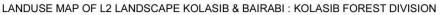
PROPOSED LANDUSED MAP OF L3 LANDSCAPE NEW DIAKKAWN

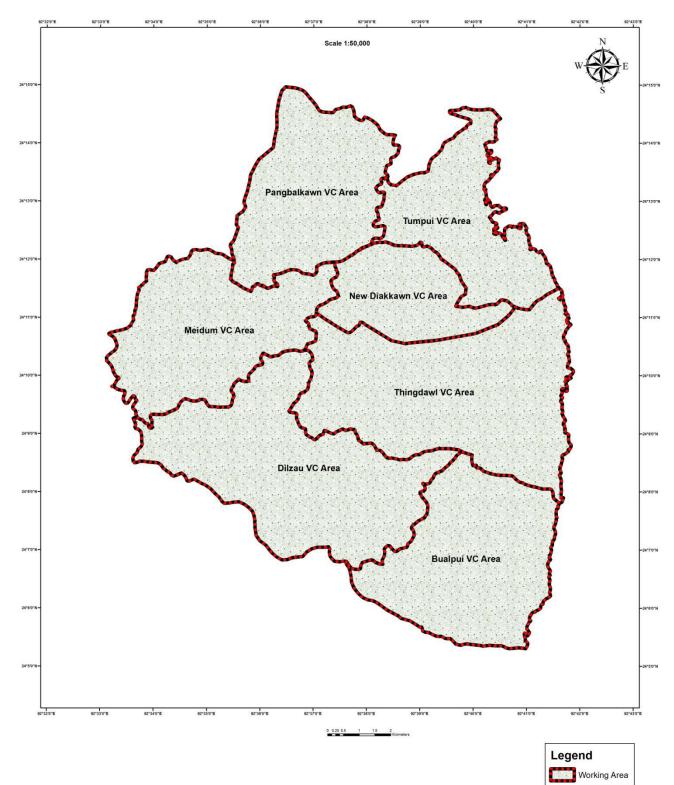




GIS Cell, E&F Dep.Mizoram







Prepared by : GIS Cell E&F Dept. Mizoram