

**GOVERNMENT OF MIZORAM  
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS  
DEPARTMENT OF ENVIRONMENT, FORESTS & CLIMATE CHANGE  
MIZORAM::AIZAWL**

No.B.20018/1/2022-CAMPA/PCCF/208

Dated Aizawl, the 6 June, 2023

To,

Chief Executive Officer,  
National Authority, CAMPA  
Government of India,  
Ministry of Environment, Forests & Climate Change,  
Indira Paryavaran Bhavan,  
Jorbagh road, Alliganj, New Delhi- 110003  
E-mail: *adhoc-campa-mef@nic.in*

**Subj:** *Annual Plan of Operation – 2023-24 of Mizoram State CAMPA.*

Sir,

Kindly find enclosed herewith Annual Plan of Operation, Mizoram State CAMPA for the year 2023-24 with a budget outlay of Rs. 17.03crore for kind consideration and approval. The APO has been approved by the Steering Committee of the State CAMPA in its meeting held on 11.05.2023. A copy of the minutes of the meeting of the Steering Committee is already sent to you vide letter No.B.20018/29/2016-CAMPA/PCCF/88-93 dt.31.5.2023 (copy enclosed for ready reference).

It is therefore, requested to kindly approve the APO (2023-24) with sanction of the required funds for timely implementation of the work in accordance with APO (2023-24) under CAMPA. Further, the relevant information in Annexure-II, III & IV is also enclosed herewith as prescribed vide letter No.NA-15/1/2022-NA dated 16.5.2023 please.

*Encl: As above*

Yours faithfully,

  
(RS SINHA)

2 Addl. Principal Chief Conservator of Forests

Dated Aizawl, the \_\_\_ June, 2023

Memo No.B.20018/2/2022-CAMPA/PCCF

Copy to :

Under Secretary to the Govt. of Mizoram, EF&CC Department for information.

  
(LALRAMMAWII SAILO)  
2 Conservator of Forests (FC)

**MINUTES OF THE MEETING OF STEERING COMMITTEE OF STATE AUTHORITY  
(CAMPA) HELD ON 11.05.2023 AT THE CHIEF SECRETARY CONFERENCE HALL**

A meeting of Steering Committee of State Authority (CAMPA) was held on 11.05.2023 at the Conference Hall of Chief Secretary, Mizoram to scrutinize and approve the draft Annual Plan of Operation (APO) of CAMPA for the year 2023-24. The draft APO was earlier discussed in the meeting of Executive Committee held on 28.3.2023. The Steering Committee was chaired by the Chief Secretary, Govt. of Mizoram. The attendance sheet of participants who attended in person is appended at Annexure-I. Deputy Inspector General of Forests (C), Regional Office, Shillong attended the meeting through VC.

Chief Secretary welcomed the participating members of the Steering Committee. The activities proposed in the draft APO of 2023-24 approved by the Executive Committee were placed before the Steering Committee and the corrected APO as per decisions taken in the Steering Committee meeting is as given below :-

1. Division wise Physical & Financial targets of CA proposed for APO 2023-24 :

Sl. No	Name of FC Proposal	Division	Phy. Target (in ha)	Work Items	Fin. Target (in Rs.)
1	Construction of 132 Kv Transmission Line (Sakawrtuichhun - Sihhmui)	Aizawl	18.78	1st Year Maintenance	2,06,171
2	Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-380 within Lawngtlai District	LADC	4.81	1st Year Maintenance	52,805
3	Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-350 within Siaha District	MADC	6.37	1st Year Maintenance	69,931
4	widening & Upgradation of NH-54 to 2-lane (Package- 1&2) km 8.00-250 within Aizawl & Lunglei District	Darlawn	12.09	2nd Year Maintenance	88,484
5	Construction of NH-150	Darlawn	23.69	2 <sup>nd</sup> year maintenance	1,62,040
6	IBB Fencing inside Dampa Tiger Reserve	Darlawn	717	2nd Year Maintenance	52,47,580
7	Construction of bridge over Kawrawnglui	Lunglei	0.2424	5th Year Maintenance	1,380
8	MSRP-II, Gr-I (Tlabung - Kawrpuichhuah road)	Darlawn	4.98	5th Year Maintenance	28,348
9	Construction of railway BG line from Bairabi - Sairang	Darlawn	46.555	7th Year Maintenance	2,27,151
10	MSRP-II, Gr-I ( Chhumkhum - Chawngte road)	Darlawn	3.85	7th Year Maintenance	18,785
11	Construction of BG railway line from Bairabi - Sairang	Darlawn	27.933	8th Year Maintenance	1,36,291
<b>Sub-Total (a) :</b>			<b>866.3004</b>		<b>62,38,966</b>
<b>Amount to offset from Interest (b) :</b>					<b>1,62,040</b>
<b>Total for CA (a - b) :</b>					<b>60,76,926</b>

2. The proposed activities under NPV and interest components were then presented as follows :

**ABSTRACT OF COST OF NET PRESENT VALUE (NPV)**

*Core activities (not less than 80%)*

S. No.	Item of Works	Physical target	Fin. target (Rs. in lakh)	Relevant CAF Rule(s)	Remarks/Justification
1	Promoting conservation of Community/ Village Forests maintained by local people and NGOs (Protection & enrichment planting)	100 hectare	80.00	5(2)(a)	There are about 700 villages in Mizoram and most of them have safety, supply and community reserve forests with YMA Parks. To ensure their protection and conservation some technical and financial support is required. It will promote conservation of these community/village forests.
2	Maintenance of tall seedlings for Avenue Plantations in some forest divisions	200000 nos. @ Rs. 15/-	30.00	5(2)(b)	Since soil erosion and land slide in Mizoram is very common due to hilly terrain thus, Avenue Plantation on road sides will not only stabilize the soil but will also ameliorate aesthetic aspect.
3	Forest Fire Management: Forest fire prevention and control operations :- i) Maintenance of fireline ii) Engagement of fire watcher for 3 months @Rs 11,400 per month iii) Awareness & Control Operation	i) Maintenance of fireline - 468.02 km ii) Engagement of fire watcher -93 nos. iii) Awareness & Control - LS	150.00	5(2)(f)	Forest fire in remote hilly areas is quite common due to prevalent jhum burning thus, prevention measures viz. maintenance of fire-lines, engagement of fire watchers in peak session, construction of watch towers, etc. are required annually.
4	Protection of plantations and forests	16 divisions	100.00	5(2)(d)	Due to acute shortage of field staff, the protection of forests & plantations is required with engagement of local people with transportation of seized forest products from interiors, etc.
5	Soil & Moisture Conservation works viz. gully plugging, check dams, etc. in the forests	i) Checkdam - 139 nos @1 lakh /no ii) Gully plugging - 3 nos @2 lakh/no iii) Log Wood checkdam - 6 nos @0.50 lakh/no iv) Gabio checkdam - 2 nos @1 lakh/no	150.00	5(2)(g)	Mizoram being a hilly State with steep slopes thus, soil erosion and land slide is very common in hilly terrain with drought in some areas during dry season thus, S&M Conservation activities are felt necessary.

6	Improvement of wildlife habitats	<p>i) Creation of Art. Grassland – 20 ha @0.5 lakh /ha</p> <p>ii) Water hole – 20 nos @0.5/ha</p> <p>iii) Gap filling planting – 50000 nos @50 per seedlings</p> <p>iv) Habitat improvement with S&amp;M measures</p>	85.00	5(2)(i)	To conserve the rich biodiversity in the State in line with prescriptions of approved WL Management Plan/Working Plan the WL habitats need to be improved.
7	Advance Work of Aided Natural Regeneration (ANR) in Aizawl, Champhai, Kolasib, Lunglei, N. Vanlaiphai, Thenzawl, Tlabung, Aizawl WL, Khawzawl WL, Chhimituipui WL, MADC, DTR	1800 ha @Rs 11,400 /ha	205.20	5(2)(a)	Enrichment of degraded forests. (As per PSI's ISFR 2021, the Mizoram has 56.68% of open forests out of 84.53% forest cover thus, enrichment of open forests is indispensable.
8	Creation of Seed Production Areas (SPAs) under different Forest Divisions	3 Potential territorial divisions	25.00	5(2)(m)	For raising quality planting material, creation of Seed Production Areas (SPA) is indispensable thus, it may be initiated in 5 forest divisions.
9	Lidar Based Project (SMC works. ANR etc)	Kawrthah & Mamit Division	100.00	5(2)(m)	Forest enrichment, watershed management activities to recharge ground water and other water resources
10	Forest fire prevention and control operations: procurement of forest firefighting equipment.	All territorial and wildlife divisions	50.00	5(2)(f)	Forest fire incidences are common in hilly areas thus, prevention and control with procurement of fire fighting equipment is necessary.
11	Procurement of energy saving devices viz. solar lights for field offices, etc.	Field offices, check-posts, nurseries, etc.	50.00	5(2)(l)	For energy saving in field offices, nurseries, etc.
12	Protection measures viz. engine boats, patrolling path, water supply to nurseries, etc.	8 divisions viz. Aizawl, Darlawn, Kawrthah, Kolasib, Champhai, Aizawl WL, DTR, Protection.	80.00	5(2)(d)	Many illegally transported exotic wildlife animals are seized in recent past thus, some animal rescue centers are urgently required. Further, strengthening of protection activities is also needed.
13	Construction, upgradation and maintenance of inspection paths, forest roads in forest areas for protection duties.	In vulnerable forest divisions	80.00	5(2)(d)	Construction, upgradation and maintenance of inspection paths, forest roads in forest areas for protection duties are essential.
		<b>Total :</b>	<b>1185.20</b>		

*Allied activities (not more than 20%)*

Sn	Item of Works	Physical target	Fin. target (Rs. in lakh)	Relevant CAF Rule (s)	Remarks/Justification
1	Construction/repair of check posts, frontline staff quarters, etc. under various forest divisions	i) Checkpost - 10 nos at Rs 2.5 lakh ii) Const. of Staff Qtrs - 2 nos at Rs 25 lakh iii) Maintenance of qtrs, checkpost etc.	80.00	5(3)(d) & (e)	Most of the forest quarters, check posts, etc. are quite old and in deplorable condition thus, construction/renovation is required.
2	Purchase of vehicles	8 nos. purchase	96.00	5(3)(c)	The existing departmental vehicles are quite old and not fit for field visits in hilly terrain. Moreover, the hiring of vehicle in remote hilly areas is not economical therefore, purchase of 10 vehicles may kindly be considered for smooth performance of field works.
3	Engagement of local casual staff/labours to assist regular staff of State Forest Department in various works for protection of forests and wildlife including anti-poaching squad  <i>(including liabilities of APO 2022-23).</i>	44 nos.	120.40	5(3)(f)	Due to acute shortage of regular forest staff, the functioning of nodal office as well as field offices has become quite challenging. Thus, casual engagement of local people in the nodal office as well as division offices to assist regular staff of forest department for smooth functioning and effective execution of works in protection of forest, wildlife and CAMPA activities is indispensable.
4	Independent and third-party monitoring & evaluation of various forestry works.	LS	15.00	5(3)(h)	Independent third party monitoring and evaluation is required to ensure implementation of approved works up to satisfactory level.
5	Capacity building, Publicity cum awareness and extension activities related to forest and wildlife conservation.	LS	40.00	5(3)(i)	For extension activities such as organizing awareness campaign, workshop and seminars, quiz, essay writing, painting competition for students, displaying banners, hoarding on bio-diversity conservation, environment protection, publication of books, pamphlets, reports on forest wildlife conservation

					and other related issues. Documentation of biological diversity. (Faunal & floral)
6	Improvement/upgradation of existing forest nurseries with signboards, inspection paths, repair of fencing, weeding, etc.	All forest divisions	20.00	5(3)(a)	Nurseries are the backbone of plantation. Good nursery is an essential pre-requisite for successful plantation. So, experiment of existing nurseries is excited for carrying out successful CA plantations as well as other plantation. Works will include improvement of water supply, nursery beds, inspection paths, procurement of tools, weeding, repair of fencing, etc.
7	Purchase/maintenance of communication devises viz. cell phones, computers, etc. used for monitoring and protection of forests.	LS	10.00	5(3)(c)	Due to remote and difficult hilly terrain of Mizoram, the communication with forest field staff in various forest divisions and ranges is a challenging job. Thus, procurement of communication devises viz. cell phones, computers, etc. is proposed.
		<b>Total :</b>	<b>381.40</b>		
		<b>Total of NPV :</b>	<b>1566.60</b>		

3. The activities under interest component were proposed as follows :

#### ABSTRACT OF COST OF INTEREST

##### *Permissible activities for not less than 60% of INTEREST*

S.No.	Item of Works	Physical target	Financial target (in Rs)	Relevant CAF Rule (s)
1.	To offset the incremental cost of CA at the increased wage rate	23.69	1,62,040.00	6(a)(i)
2	Disbursement of wages/allowances to contractual staff engaged to assist State CAMPA	24	48,00,000.00	6(a)(iv)
		<b>Total</b>	<b>49,62,040.00</b>	

##### *Permissible activities for not more than 40% of INTEREST*

S.No.	Item of Works	Physical target	Financial target (in Rs)	Relevant CAF Rule (s)
1	Management of office establishment	1	5,00,000.00	6(b)(i)
2	Office equipment viz. conveyance for monitoring teams, computers, etc.	LS	20,00,000.00	6(b)(ii) & (iii)
		<b>Total</b>	<b>25,00,000.00</b>	
		<b>Total of Interest</b>	<b>74,62,040.00</b>	

ABSTRACT OF CAMPA APO 2023-24

S.N o.	Head	Physical target	Financial target (in Rs crore)
1	CA	866.3004 ha	0.61
2	Net Present Value	LS	15.67
3	Interest	LS	0.75
	<b>TOTAL</b>		<b>17.03</b>

Representative from IRO, Shillong observed that the proposed amount for activities under 20% of NPV is on higher side. Thus, it was decided that some of the activities of 20% categories may be shifted to 80% of NPV for keeping the ratio of the activities under NPV as per the CAF Rules, 2018. Accordingly, necessary adjustments have been made wherever possible.

Further, it was observed that as per the latest 3<sup>rd</sup> Party monitoring report, the average survival rate of plantations is 7 out of 10; the committee urged the concerned department to take necessary action for improvement of the survival rate of the plantations.

The Committee after examination of activities, approved the draft APO for 2023-24 for Rs 16.43 crore and recommended for submission of the same to the National Authority, Ministry of Environment, Forests & Climate Change, Government of India.

The meeting ended with thanks to the chair and the participants.

Sd/-

**(RENU SHARMA)**

Chief Secretary & Chairman  
Steering Committee, State Authority

Memo No.B.20018/29/2016-CAMPA/PCCF/88-93

Dated Aizawl, the 31<sup>st</sup> May, 2023


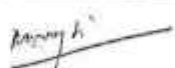

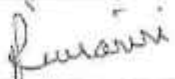
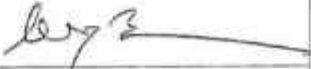


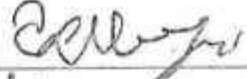


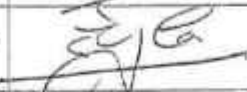
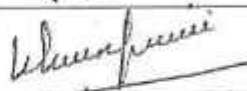
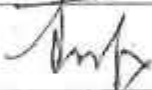
Copy to :

1. PS to Chief Secretary & Chairman, Steering Committee, State Authority, CAMPA
2. Chief Executive Officer, National Authority, CAMPA, Ministry of EF&CC
3. All members of Steering Committee, State CAMPA Authority, Mizoram
4. Dy. Director General of Forests (C), IRO, Shillong

  
(RS SINHA) 31/5

Addl. Principal Chief Conservator of Forests (FC)  
& Member Secretary, State Authority

ATTENDANCE SHEET FOR MEETING OF STEERING COMMITTEE of  
STATE AUTHORITY CAMPA, MIZORAM HELD ON 11.05.2023  
AT CHIEF SECRETARY CONFERENCE HALL

Sn	Name & Designation	Signature
1	Dr. Renu Sharma, Chief Secretary	
2	RK Singh, Principal Secretary & PCCF (HoFF), EF&CC Department	
3	Karnal Preet, APCCF (Admn), EF&CC Deptt	
4	Lakshmanaraj Hmar, U/S, SW&TA	
5	V. Ruat Saung A/S Agriculture	
6	P. Lalbiaktluanga R.O P&PI	
7	Yorunthana Ralte, DS ADD	
8	Lalchhuan Thuanza U/S, LRA Deptt	
9	Lalpelkhuama S/S Finance.	
10	Lalthanhliua Zathang, CWLW EF&CC	
11	M. Z. Singson, WPO(N), EF&CC	
12	W. I. Yabon, DIGF(c), IRO, Shillong	Attend through vc
13	VANLALNUNPUH HMAR, ACF (FC), EF&CC	
14	F. Lalhrunizela, ID (Accts), EF&CC.	
15		
16		



## Annual Plan of Operation for the financial year 2023-24 of Mizoram State CAMPA

1. Date of Receipt :
2. Date of approval of EC of State/UT : 20.4.2023
3. Date of approval of Steering Committee : 31.5.2023
4. Total Amount/Outlay : Rs 17.03 crore
5. Funds status with the State/UT along with outlay proposed

(Amount in Rs crores)

S. No	CAMPA Activity	Funds available with the State/UT	Outlay proposed
<b>1</b>	<b>Mandatory Activity</b>	-	-
	CA/PCA/Additional CA	6.01	0.61
	Catchment Area Treatment Plan	4.20	-
	Integrated Wildlife Management Plan	-	-
	Others	1.50	-
<b>2</b>	<b>Net Present Value</b>	146.65	15.67
<b>3</b>	<b>Interest</b>	25.23	0.75
<b>4</b>	<b>Other Components</b>	-	-

6. Funds released by the State Government during the year

(Amount in Rs crores)

Year	APO approved by National Authority during current financial year	Fund released by State Government	Fund Utilised by State Authority	Total Outlay for the current year
2018-19	8.30	Directly received from Gol	8.30	9.01
2019-20	-	-	-	21.29
2020-21	32.66	25.99	25.99	40.46
2021-22	18.08	17.64	17.19	20.42
2022-23	16.75	11.64	11.64	20.40

7. Financial outlays/Budgetary support under various Schemes (amount spent)

(Rs in crore)

Year	CSS		CAMPA (Amount spent)	State Plan/ Scheme Fund	Any other scheme
	Name of the scheme	Expenditure			
2020-21	GIM	2.994	25.99		
	IDWH	37.701			
	Project Tiger	1.795			
	FFP & MS	1.269			
2021-22	GIM	29.858	17.19		
	IDWH	8.84			
	Project Tiger	4.053			
	FFP & MS	0.968			
2022-23	GIM	34.12	11.64		
	IDWH	8.45			
	Project Tiger	0.78			
	FFP&MS	0.343			
2023-24	GIM	6.18			
	IDWH	17.94			
	Project Tiger	4.82			

\* Provision made in 2023-24. Details to be filled up in Annexure-IV

## 8. Status of Compensatory Afforestation

(Area in Ha)

Afforestation required as per site specific scheme submitted along with approved proposal for diversion of forest land under FC Act, 1980 till 31.3.2023			Afforestation carried out in the State as per site specific scheme till 2022-23			Afforestation to be carried out 2023-24	Afforestation carried out percentage	Total balance upto 2024-25
(CA)	(PCA)	(CA+PCA)	(CA)	(PCA)	(CA+PCA)	(CA+PCA)	(CA+PCA)	(CA+PCA)
11673.1907	224	11897.1907	11314.2121	224	11538.2121	-	96.98 %	358.9786

## 9. Balance Afforestation Status

(Area in Ha)

Balance Afforestation required as per FC Act (in ha)	Balance Afforestation to be completed in Financial Year (in Ha)		
	2023-24	2024-25	2025-26
358.9786	-	~200 approx	~160 approx

Note : Funds are not yet released from National Authority to State Authority. Hence, it is not yet proposed for creation plantation.

## 10. Details of APO are as under

(Amount in Rs crore &amp; Area in ha)

S.No	CAF Act/Rules	Activity	Proposed outlay		Green employment to be generated (in Mandays)	Page No.	Remarks
			Phy. Target	Fin, Target			
<b>1.</b>	<b>Site Specific Activities as per Section 6(a) of the CAF Act, 2016</b>						
	Mandatory Activity	Compensatory Afforestation	866.3004	0.61	~15374 approx		
		Catchment Area Treatment Plan					
		IWMP					
		Other					
		Total site specific activities under CA					
<b>2</b>	<b>Activity as per Rule 5(2) of CAF Rules, 2018</b>						
	5(2)a	ANR	Advance work of 1800 ha @11,400/ha; Protection & Conservation of 100 ha Community /Village Forest	2.852	~52630 approx		
	5(2)b	AR	20000 nos	0.30	~7890 approx		
	5(2) c	Silvicultural Operations					
	5(2) d	Protection of Plantations and forests	LS	2.60	~7000 approx		This includes engagement of local people, transportation of seized materials etc.

	5(2) e	Pest and disease control in forest					
	5(2) f	Forest fire prevention and control operations	Maintenance of 468.02 km fireline, engagement of 93 fire watcher, awareness & control operation, procurement of fire fighting equipment	2.00	~10000 approx		
	5(2) g	Soil & Moisture conservation works	139 nos checkdam, 3 nos gully plugging, 6 nos log wood checkdam, 2 nos gabion chekckdam	1.50	~11000 approx		30% of fund is estimated for mandays
	5(2) h	Voluntary relocation of villages from protected areas					
	5(2) i	Improvement of wildlife habitat	20 ha creation of artificial grassland, 20 nos water hole, 50000 nos gap filling planting etc	0.85	~6300 approx		30% of fund is estimated for mandays
	5(2) j	Planting & rejuvenation of forest cover on non-forest land falling in wildlife corridors					
	5(2) k	Establishment, maintenance of animal rescue centre and veterinary treatment facilities for wild animals					
	5(2) l	Supply of wood saving, cooking appliances and other forest produce saving devices	LS	0.50			
	5(2) m	Management of biological diversity and biological resources	LS	1.25	~9500 approx		30% of fund is estimated for mandays
3	<b>Activity as per Rule 5(3) of CAF Rules, 2018</b>						
	5(3) a	Establishment, maintenance of modern nurseries	LS	0.20	~1500 approx		30% of fund is estimated for mandays

5(3) b	Promoting conservation, sustainable use and documentation of biological diversity					
5(3) c	Purchase and maintenance of equipment of devices for communication, information and technology	i) 8 nos vehicles ii) communication devices	1.06			
5(3) d	Construction, upgradation and maintenance of inspection paths, forest roads in forest areas, fire lien, watch towers, check posts and timber posts					
5(3) e	Construction of residential and official buildings	10 nos checkpost, 2 nos quarters and maintenance of quarters/checkpost	0.80	~4200 approx		20% of fund is estimated for mandays
5(3) f	Casual engagement of local people or labours to assist regular staff of State Forest Department	44 nos	1.204	32120		It is proposed for 2 years (including liabilities of 2022-23)
5(3) g	Survey and mapping					
5(3) h	Independent concurring monitoring and evaluation and third party monitoring	LS	0.15			
5(3) i	Publicity cum awareness programme	LS	0.40			
5(3) j	Production and distribution of quality planting material					
5(3) k	Forest certification and development of certification standards					

4	<b>Activity as per Rule 6(a) of CAF Rules, 2018</b>						
	6 (a) i	To offset incremental cost of CA/PCA at increased wage rate	23.69	0.02	Included in Sl. No. 1		
	6 (a) ii	To offset incremental cost of CAT at increased wage rate					
	6 (a) iii	To offset incremental cost of IWMP at increased wage rate					
	6 (a) iv	For disbursement of sitting fees and allowances of members and staff	24	0.48	8760		
	6 (a) v	For disbursement of sitting fees and allowances to nominated members					
	6 (a) vi	Activities referred to in sub rule (2) and (3) of Rule 5					
5	<b>Activity as per Rule 6(b) of CAF Rules, 2018</b>						
	6 (b) i	Management of office establishment	LS	0.05			
	6 (b) ii	Office equipment including computers and peripherals and its maintenance	LS	0.20			
	6 (b) iii	Hiring of staff cars for the use of officers and officials					
	6 (b) iv	Hiring of buildings on lease for office establishment and residences of the officers					
	6 (b) v	Other contingencies for management of State Authority					
	6 (b) vi	Any other activity for management of forests and wildlife with the approval of Steering Committee and					

		included in the APO					
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Specify the wage rate : Rs 380 per day

Specify the provision of wage employment in mandays during the proposed activities

## ANNEXURE-III

1. Table 1 : Mandatory Activities - Compensatory Afforestation (CA)/Penal Compensatory Afforestation (PCA)

S.N	FC Proposal Details	CA Area as per FC proposal			CA Executed		CA Proposed for current Financial Year		Remaining CA		Interest Amount to offset incremental cost of CA/PCA (in lakhs)
		Area (in ha)	Location (in km file)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	
1	Construction of 132 Kv Transmission Line (Sakawrtulchhun - Sihhmul)	9.39	Lungsezang, Setlak ram, Aizawl FD	18.78	18.78	12.597	18.78	2.061		4.122	
2	Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-380 within Lawngtlai District	11.18	Mampul Ram, LADC	13.98	4.81	7.498	4.81	0.528		5.250	
3	Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-350 within Siaha District		Siahatia-Tiapl Road, MADC		6.37		6.37	0.699			
4	Widening & Upgradation of NH-54 to 2-lane (Package- 1&2) km 8.00-250 within Aizawl & Lunglei District	12.09	Khawten tiang, Suangpuiawn, Darlawn FD	29.09	12.09	9.537	12.09	0.885		18.668	
5	Construction of NH-150 (Zemabawk E. Phalleng Road)	23.69	Mualkawi Ha, Damdai, Darlawn FD	9.41	23.69	18.69	23.69	1.620		-10.900	1.62
6	IBB Fencing inside Dampa Tiger Reserve	1519.57	Buhban, Lailak, Khawruhlan, Zawngn, Phullen,	1389.69	717	1333.8	717	52.476		3.414	
7	IBB Fencing inside Dampa Tiger Reserve				804		804	-			
8	Construction of bridge over Kawrawnglui	0.2424	Minzau Ram, Lunglei FD	0.22	0.2424	0.18	0.2424	0.014		0.026	
9	MSRP-II, Gr-I (Tabung - Kawripuchhuah road)	4.98	Sasaw tiang, Darlawn FD	5.33	4.98	3.78	4.98	0.283		1.267	
10	MSRP-II, Gr-I ( Chhumkhum - Chawngte road)	3.85	Sasaw tiang, Darlawn FD	4.12	3.85	3.392	3.85	0.188		0.540	
11	Construction of railway BG line from Bairabi - Sairang	74.488	Lenhmui zawl, N. Serzawl, Darlawn FD	79.8	46.555	66.46	46.555	2.272		9.705	
12	Construction of BG railway line from Bairabi - Sairang				27.933		27.933	1.363			
	Total	1659.4804		1550.415	1670.3	1455.934	1670.3	62.389		32.092	1.62

2. Table 2 : Mandatory Activities - Catchment Area Treatment Plan

S.N	PC Proposal Details	CAT Area as per FC proposal			CAT Executed		CAT Proposed for current Financial Year		Remaining CAT		Interest Amount to offset incremental cost of CAT (in lakhs)
		CAT Activities (in Ha./No)	Location (in km file)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	
		NIL									

3. Table 3 : Mandatory Activities - Integrated Wildlife Management Plan (IWMP)

S.N	PC Proposal Details	IWMP Area as per FC proposal			IWMP Executed		IWMP Proposed for current Financial Year		Remaining IWMP		Interest Amount to offset incremental cost of IWMP (in lakhs)
		CAT Activities (in Ha./No)	Location (in km file)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	
		NIL									

4. Table 4 : Mandatory Activities - Other Component

S.N	PC Proposal Details	Others Areas as per FC proposal			Others Executed		Others Proposed for current Financial Year		Remaining Others		Interest Amount to offset incremental cost of Others (in lakhs)
		Others Activities (in Ha./No)	Location (in km file)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	
		NIL									

5. Table 5: Net Present Value(NPV) & Interest

S.No	Plantation Target as per Working Plan for Current Year		Plantation under NPV		Others Schemes		Interest Amount to offset incremental cost of NPV	Remarks
	Project name/Details	Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)	Financial (In lakhs)		

NIL

6. Table 6: Net Present Value and Interest : ANR

S.No	ANR Target as per working plan for current year		Plantation under NPV		Others Schemes		Interest Amount to offset incremental cost of ANR	Remarks
	Project name/Details	Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)	Financial (In lakhs)		

NIL

7. Table 7: Net Present Value and Interest : Soil and Moisture Conservation works

S.No	Soil Conservation Target as per ICFRE DPR for current year		Soil Conservation Structure under NPV		Others Schemes		Interest Amount to offset incremental cost of NPV	Remarks
	Project name/Details	Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)	Financial (In lakhs)		

NIL

8. Table 8: Net Present Value and Interest : Wildlife Habitat Improvement

S.No	Target Activities as per integrated wildlife management plan for current year		Wildlife activities under NPV		Others Schemes		Interest Amount to offset incremental cost of NPV	Remarks
	Project name/Details	Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)	Financial (In lakhs)		
1	Creation of Artificial Grassland	20 ha		10.00				
2	Creation of Water hole	20 nos		10.00				
3	Gap filling planting with fruit bearing trees	50000 seedlings		25.00				
4	Habitat improvement with SMC Measure	LS		40.00				
				85.00				



9. Table 9: Net Present Value and Interest : Fire management

S.No	Target Activities as per integrated Fire management plan for current year		Fire Management activities under NPV			Others Schemes		Interest Amount to offset incremental cost of Fire management	Remarks
	Project name/Details	Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)	Financial (in lakhs)			

NIL

10. Table 10: Net Present Value and Interest : Capacity Building/ Awareness Activities

S.No	Target Activities as per State plan for current year		Activities		Others Schemes		Interest Amount to offset incremental cost of capacity building/ Awareness activities	Remarks
	Project name/Details	Physical (in Ha)	Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)		

NIL

11. Table 11: Net Present Value and Interest : Frontline Staff Quarters

S.No	Target Activities as per State plan for current year		Activities		Others Schemes		Interest Amount to offset incremental cost of Frontline Staff Quarters	Remarks
	Project name/Details	Physical (in Ha)	Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)		

NIL

12. Table 12: Net Present Value and Interest : Casual Labours

S.No	Target Activities as per State plan for current year		Activities			Others Schemes		Interest Amount to offset incremental cost of Casual Labours	Remarks
	Project name/Details	Physical (in Ha)	Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)			

NIL

13. Table 13: Net Present Value and Interest : Hiring of Vehicles

S.No	Target Activities as per State plan for current year	Activities		Others Schemes		Interest Amount to offset incremental cost of Hiring of Vehicles	Remarks
		Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)		
	Project name/Details						
NIL							

14. Table 14: Net Present Value and Interest : Other activities

S.No	Target Activities as per State plan for current year	Activities		Others Schemes		Interest Amount to offset incremental cost of other activities	Remarks
		Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)		
	Project name/Details						
NIL							

15. Table 15: Net Present Value and Interest : Overhead Expenditure

S.No	Target Activities as per State plan for current year	Activities		Others Schemes		Interest Amount to offset incremental cost of Overhead expenditure	Remarks
		Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)		
	Project name/Details						
NIL							





## Annual Plan of Operation for the financial year 2023-24 of Mizoram State CAMPA

1. Date of Receipt :
2. Date of approval of EC of State/UT : 20.4.2023
3. Date of approval of Steering Committee : 31.5.2023
4. Total Amount/Outlay : Rs 17.03 crore
5. Funds status with the State/UT along with outlay proposed

*(Amount in Rs crores)*

S. No	CAMPA Activity	Funds available with the State/UT	Outlay proposed
<b>1</b>	<b>Mandatory Activity</b>	-	-
	CA/PCA/Additional CA	6.01	0.61
	Catchment Area Treatment Plan	4.20	-
	Integrated Wildlife Management Plan	-	-
	Others	1.50	-
<b>2</b>	<b>Net Present Value</b>	146.65	15.67
<b>3</b>	<b>Interest</b>	25.23	0.75
<b>4</b>	<b>Other Components</b>	-	-

6. Funds released by the State Government during the year

*(Amount in Rs crores)*

Year	APO approved by National Authority during current financial year	Fund released by State Government	Fund Utilised by State Authority	Total Outlay for the current year
2018-19	8.30	Directly received from Gol	8.30	9.01
2019-20	-	-	-	21.29
2020-21	32.66	25.99	25.99	40.46
2021-22	18.08	17.64	17.19	20.42
2022-23	16.75	11.64	11.64	20.40

7. Financial outlays/Budgetary support under various Schemes (amount spent)

*(Rs in crore)*

Year	CSS		CAMPA (Amount spent)	State Plan/ Scheme Fund	Any other scheme
	Name of the scheme	Expenditure			
2020-21	GIM	2.994	25.99		
	IDWH	37.701			
	Project Tiger	1.795			
	FFP & MS	1.269			
2021-22	GIM	29.858	17.19		
	IDWH	8.84			
	Project Tiger	4.053			
	FFP & MS	0.968			
2022-23	GIM	34.12	11.64		
	IDWH	8.45			
	Project Tiger	0.78			
	FFP&MS	0.343			
2023-24	GIM	6.18			
	IDWH	17.94			
	Project Tiger	4.82			

\* Provision made in 2023-24. Details to be filled up in Annexure-IV

## 8. Status of Compensatory Afforestation

(Area in Ha)

Afforestation required as per site specific scheme submitted along with approved proposal for diversion of forest land under FC Act, 1980 till 31.3.2023			Afforestation carried out in the State as per site specific scheme till 2022-23			Afforestation to be carried out 2023-24	Afforestation carried out percentage	Total balance upto 2024-25
(CA)	(PCA)	(CA+PCA)	(CA)	(PCA)	(CA+PCA)	(CA+PCA)	(CA+PCA)	(CA+PCA)
11673.1907	224	11897.1907	11314.2121	224	11538.2121	-	96.98 %	358.9786

## 9. Balance Afforestation Status

(Area in Ha)

Balance Afforestation required as per FC Act (in ha)	Balance Afforestation to be completed in Financial Year (in Ha)		
	2023-24	2024-25	2025-26
358.9786	-	~200 approx	~160 approx

Note : Funds are not yet released from National Authority to State Authority. Hence, it is not yet proposed for creation plantation.

## 10. Details of APO are as under

(Amount in Rs crore &amp; Area in ha)

S.No	CAF Act/Rules	Activity	Proposed outlay		Green employment to be generated (in Mandays)	Page No.	Remarks
			Phy. Target	Fin, Target			
<b>1.</b>	<b>Site Specific Activities as per Section 6(a) of the CAF Act, 2016</b>						
	Mandatory Activity	Compensatory Afforestation	866.3004	0.61	~15374 approx		
		Catchment Area Treatment Plan					
		IWMP					
		Other					
		Total site specific activities under CA					
<b>2</b>	<b>Activity as per Rule 5(2) of CAF Rules, 2018</b>						
	5(2)a	ANR	Advance work of 1800 ha @11,400/ha; Protection & Conservation of 100 ha Community /Village Forest	2.852	~52630 approx		
	5(2)b	AR	20000 nos	0.30	~7890 approx		
	5(2) c	Silvicultural Operations					
	5(2) d	Protection of Plantations and forests	LS	2.60	~7000 approx		This includes engagement of local people, transportation of seized materials etc.

	5(2) e	Pest and disease control in forest					
	5(2) f	Forest fire prevention and control operations	Maintenance of 468.02 km fireline, engagement of 93 fire watcher, awareness & control operation, procurement of fire fighting equipment	2.00	~10000 approx		
	5(2) g	Soil & Moisture conservation works	139 nos checkdam, 3 nos gully plugging, 6 nos log wood checkdam, 2 nos gabion chekckdam	1.50	~11000 approx		30% of fund is estimated for mandays
	5(2) h	Voluntary relocation of villages from protected areas					
	5(2) i	Improvement of wildlife habitat	20 ha creation of artificial grassland, 20 nos water hole, 50000 nos gap filling planting etc	0.85	~6300 approx		30% of fund is estimated for mandays
	5(2) j	Planting & rejuvenation of forest cover on non-forest land falling in wildlife corridors					
	5(2) k	Establishment, maintenance of animal rescue centre and veterinary treatment facilities for wild animals					
	5(2) l	Supply of wood saving, cooking appliances and other forest produce saving devices	LS	0.50			
	5(2) m	Management of biological diversity and biological resources	LS	1.25	~9500 approx		30% of fund is estimated for mandays
<b>3</b>	<b>Activity as per Rule 5(3) of CAF Rules, 2018</b>						
	5(3) a	Establishment, maintenance of modern nurseries	LS	0.20	~1500 approx		30% of fund is estimated for mandays

5(3) b	Promoting conservation, sustainable use and documentation of biological diversity					
5(3) c	Purchase and maintenance of equipment of devices for communication, information and technology	i) 8 nos vehicles ii) communication devices	1.06			
5(3) d	Construction, upgradation and maintenance of inspection paths, forest roads in forest areas, fire lien, watch towers, check posts and timber posts					
5(3) e	Construction of residential and official buildings	10 nos checkpost, 2 nos quarters and maintenance of quarters/checkpost	0.80	~4200 approx		20% of fund is estimated for mandays
5(3) f	Casual engagement of local people or labours to assist regular staff of State Forest Department	44 nos	1.204	32120		It is proposed for 2 years (including liabilities of 2022-23)
5(3) g	Survey and mapping					
5(3) h	Independent concurring monitoring and evaluation and third party monitoring	LS	0.15			
5(3) i	Publicity cum awareness programme	LS	0.40			
5(3) j	Production and distribution of quality planting material					
5(3) k	Forest certification and development of certification standards					



<b>4</b>	<b>Activity as per Rule 6(a) of CAF Rules, 2018</b>						
	6 (a) i	To offset incremental cost of CA/PCA at increased wage rate	23.69	0.02	Included in Sl. No. 1		
	6 (a) ii	To offset incremental cost of CAT at increased wage rate					
	6 (a) iii	To offset incremental cost of IWMP at increased wage rate					
	6 (a) iv	For disbursement of sitting fees and allowances of members and staff	24	0.48	8760		
	6 (a) v	For disbursement of sitting fees and allowances to nominated members					
	6 (a) vi	Activities referred to in sub rule (2) and (3) of Rule 5					
<b>5</b>	<b>Activity as per Rule 6(b) of CAF Rules, 2018</b>						
	6 (b) i	Management of office establishment	LS	0.05			
	6 (b) ii	Office equipment including computers and peripherals and its maintenance	LS	0.20			
	6 (b) iii	Hiring of staff cars for the use of officers and officials					
	6 (b) iv	Hiring of buildings on lease for office establishment and residences of the officers					
	6 (b) v	Other contingencies for management of State Authority					
	6 (b) vi	Any other activity for management of forests and wildlife with the approval of Steering Committee and					

		included in the APO					
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Specify the wage rate : Rs 380 per day

Specify the provision of wage employment in mandays during the proposed activities

1. Table 1 : Mandatory Activities - Compensatory Afforestation (CA)/Penal Compensatory Afforestation (PCA)

S. No	FC Proposal Details	CA Area as per FC proposal			CA Executed		CA Proposed for current Financial Year		Remaining CA		Interest Amount to offset incremental cost of CA/PCA (in lakhs)
	Project name/Details	Area (in ha)	Location (in km file)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	
1	Construction of 132 Kv Transmission Line (Sakawrtulchhun - Sihmu)	9.39	Lungsezang, Setlak ram, Aizawl FD	18.78	18.78	12.597	18.78	2.061		4.122	
2	Widening & Upgradation of NH 54 to 2-lane (Package-3) km 250-380 within Lawngtlai District	11.18	Mampui Ram, LADC	13.98	4.81	7.498	4.81	0.528		5.250	
3	Widening & Upgradation of NH 54 to 2-lane (Package-3) km 250-350 within Siaba District		Siahatia-Tlapi Road, MADC		6.37		6.37	0.699			
4	Widening & Upgradation of NH 54 to 2-lane (Package- 1&2) km 8.00-250 within Aizawl & Lunglei District	12.09	Khawten tlang, Suangpuilawn, Darlawn FD	29.09	12.09	9.537	12.09	0.885		18.668	
5	Construction of NH-150 (Zemabawk - E. Phaileng Road)	23.69	Mualkawl hla, Damdai, Darlawn FD	9.41	23.69	18.69	23.69	1.620		-10.900	1.62
6	IBB Fencing inside Dampa Tiger Reserve	1519.57	Buhban, Lalak, Khawruhlian, Zawngn, Phullen, Sawleng etc, Darlawn FD	1389.69	717	1333.8	717	78.714		-22.824	22.824
7	IBB Fencing inside Dampa Tiger Reserve				804		804				
8	Construction of bridge over Kawrawngtui	0.2424	Minzau Ram, Lunglei FD	0.22	0.2424	0.18	0.2424	0.014		0.026	
9	MSRP-II, Gr-I (Tlabung - Kawrpuchhuah road)	4.98	Sasaw tlang, Darlawn FD	5.33	4.98	3.78	4.98	0.283		1.267	
10	MSRP-II, Gr-I ( Chhumkhum - Chavngte road)	3.85	Sasaw tlang, Darlawn FD	4.12	3.85	3.392	3.85	0.188		0.540	
11	Construction of railway BG line from Balrabi - Sairang	74.488	Lenhmui zawl, N. Serzawl, Darlawn FD	79.8	46.555	66.46	46.555	2.272		9.705	
12	Construction of BG railway line from Balrabi - Sairang				27.933		27.933	1.363			
Total		1659.4804		1550.415	1670.3	1455.934	1670.3	88.627		5.854	24.444

2. Table 2 : Mandatory Activities - Catchment Area Treatment Plan

S.No	PC Proposal Details	CAT Area as per FC proposal			CAT Executed		CAT Proposed for current Financial Year		Remaining CAT		Interest Amount to offset incremental cost of CAT (in lakhs)
	Project name/Details	CAT Activities (in Ha./No)	Location (in km file)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	
NIL											

3. Table 3 : Mandatory Activities - Integrated Wildlife Management Plan (IWMP)

S.No	PC Proposal Details	IWMP Area as per FC proposal			IWMP Executed		IWMP Proposed for current Financial Year		Remaining IWMP		Interest Amount to offset incremental cost of IWMP (in lakhs)
	Project name/Details	CAT Activities (in Ha./No)	Location (in km file)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	
NIL											

4. Table 4 : Mandatory Activities - Other Component

S.No	PC Proposal Details	Others Areas as per FC proposal			Others Executed		Others Proposed for current Financial Year		Remaining Others		Interest Amount to offset incremental cost of Others (in lakhs)
	Project name/Details	Others Activities (in Ha./No)	Location (in km file)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)	
NIL											

5. Table 5: Net Present Value(NPV) &amp; Interest

S.No	Plantation Target as per Working Plan for Current Year	Plantation under NPV		Others Schemes		Interest Amount to offset incremental cost of NPV	Remarks
		Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)		
	Project name/Details						

NIL

6. Table 6: Net Present Value and Interest : ANR

S.No	ANR Target as per working plan for current year	Plantation under NPV		Others Schemes		Interest Amount to offset incremental cost of ANR	Remarks
		Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)		
	Project name/Details						

NIL

7. Table 7: Net Present Value and Interest : Soil and Moisture Conservation works

S.No	Soil Conservation Target as per ICFRE DPR for current year	Soil Conservation Structure under NPV		Others Schemes		Interest Amount to offset incremental cost of NPV	Remarks
		Physical (in Ha)	Location (Kml file)	Physical (in Ha)	Financial (In lakhs)		
	Project name/Details						

NIL

8. Table 8: Net Present Value and Interest : Wildlife Habitat Improvement

S.No	Target Activities as per integrated wildlife management plan for current year	Wildlife activities under NPV			Others Schemes		Interest Amount to offset incremental cost of NPV	Remarks
		Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)	Financial (In lakhs)		
1	Creation of Artificial Grassland	20 ha		10.00				
2	Creation of Water hole	20 nos		10.00				
3	Gap filling planting with fruit bearing trees	50000 seedlings		25.00				
4	Habitat improvement with SMC Measure	LS		40.00				
				<b>85.00</b>				

9. Table 9: Net Present Value and Interest : Fire management

S.No	Target Activities as per integrated Fire management plan for current year	Fire Management activities under NPV			Others Schemes		Interest Amount to offset incremental cost of Fire management	Remarks
		Physical (in Ha)	Location (Kml file)	Financial (in lakhs)	Physical (in Ha)	Financial (in lakhs)		
	Project name/Details							
NIL								

10. Table 10: Net Present Value and Interest : Capacity Building/ Awareness Activities

S.No	Target Activities as per State plan for current year	Activities		Others Schemes		Interest Amount to offset incremental cost of capacity building/ Awareness activities	Remarks	
		Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)			
	Project name/Details							
NIL								

11. Table 11: Net Present Value and Interest : Frontline Staff Quarters

S.No	Target Activities as per State plan for current year	Activities		Others Schemes		Interest Amount to offset incremental cost of Frontline Staff Quarters	Remarks	
		Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)			
	Project name/Details							
NIL								

12. Table 12: Net Present Value and Interest : Casual Labours

S.No	Target Activities as per State plan for current year	Activities		Others Schemes		Interest Amount to offset incremental cost of Casual Labours	Remarks	
		Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)			
	Project name/Details							
NIL								

13. Table 13: Net Present Value and Interest : Hiring of Vehicles

S.No	Target Activities as per State plan for current year		Activities		Others Schemes		Interest Amount to offset incremental cost of Hiring of Vehicles	Remarks
	Project name/Details	Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)			
	NIL							

14. Table 14: Net Present Value and Interest : Other activities

S.No	Target Activities as per State plan for current year		Activities		Others Schemes		Interest Amount to offset incremental cost of other activities	Remarks
	Project name/Details	Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)			
	NIL							

15. Table 15: Net Present Value and Interest : Overhead Expenditure

S.No	Target Activities as per State plan for current year		Activities		Others Schemes		Interest Amount to offset incremental cost of Overhead expenditure	Remarks
	Project name/Details	Physical (in Ha)	Financial (in lakhs)	Physical (in Ha.)	Financial (in lakhs)			
	NIL							







# ANNUAL PLAN OF OPERATION 2023 - 2024



MIZORAM STATE CAMPA  
Amount : Rs 17.03 crore

**MIZORAM STATE CAMPA**  
**ANNUAL PLAN OF OPERATION (APO) 2023 - 2024**

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	<b>(ii) Interest (Abstract of Cost)</b>	
	a) Core activities (not less than 60%)	37-38
	b) Allied activities (not more than 40%)	37-38
5	<b>Part IV : Measureable output of all physical activities and targets of each permissible activity along with the period required</b>	
	(i) Details of concurrent monitoring & evaluation report.	Annexure-V
6	<b>Part V : Annexures</b>	
	(i) Minimum wage rate by Govt of Mizoram.	Annexure-I

**SUMMARY OF ANNUAL PLAN OF OPERATION (APO) 2023-2024**

<b>Sl. No.</b>	<b>Activities</b>	<b>Amount (Rs. in Crore)</b>	<b>Head of Accounts</b>
1	<b><u>Compensatory Afforestation (CA)</u></b> i. CA Scheme (Maintenance for 11 projects)	<b>0.61</b>	Major Head : 8336 - Civil Deposits Minor Head : 102 - National CA Deposits Sub - Head : 18 Detailed Head : 01
2	<b><u>Net Present Value (NPV)</u></b> i. Core activities (not less than 80%) ii. Allied Activities (not more than 20 %)	<b>15.67</b> 11.852 3.814	Major Head : 8336 - Civil Deposits Minor Head : 102 - National CA Deposits Sub - Head : 18 Detailed Head : 04
4	<b><u>Interest</u></b> i. Permissible activities for not less than 60 % ii. Permissible activities for not more than 40 %	<b>0.75</b> 0.50 0.25	Major Head : 8336 - Civil Deposits Minor Head : 102 - National CA Deposits Sub - Head : 18 Detailed Head : 05
<b>GRAND TOTAL</b>		<b>17.03</b>	

*Rupees seventeen crore three lakh only*

**ANNUAL PLAN OF OPERATION (APO) 2023-2024**

**FOR THE STATE OF MIZORAM**

**PART 1**

**Brief history & Past Performance**

**a) Brief description of Forest and Forestry Sector in the State.**

**Location:** Mizoram is located in the North Eastern corner of India and shares its boundaries with Assam, Manipur and Tripura and has very long international borders with Bangladesh and Myanmar. The total geographic area of the State is 21,081 sq.km, and lies between 21°56' N to 24°31' N latitude and 92°16' E to 93°26' E longitude.

**Forest Resources:** Forests have been the most important natural resources to the people as 84.53 per cent of the geographical area of the State is under forest and tree cover (ISFR, 2021).

The Area of Forests under different class are given in the table below.

<b>Class</b>	<b>Area in Sq.km</b>	<b>% of geographical area</b>
Very Dense Forest (VDF)	156.79	0.74
Moderately Dense Forest (MDF)	5715.24	27.11
Open Forest (OF)	11947.97	56.68
Scrub	0.90	0.00
<b>Total</b>	<b>17820.90</b>	<b>84.53</b>

The forest types of Mizoram based on Champion and Seth Classification (1968) according to the Atlas Forest Types of India 2020 are given below.

<b>Forest types</b>	<b>Area in sq.km</b>	<b>Percent</b>
2B/C1/2S1 Pioneer Euphorbiaceous Scrub	74.10	0.41
2B/C2 Cachar Semi-Evergreen Forest	5580.26	30.99
2/2S1 Secondary Moist Bamboo Brakes	6600.03	36.65
3C/C3b East Himalayan Moist Mixed Deciduous Forest	5648.50	31.37
8B/C1 East Himalayan Subtropical Wet Hill Forest	7.94	0.04
9/C2 Assam Subtropical Pine Forest	92.75	0.52
<b>Sub-total</b>	<b>18003.58</b>	<b>99.98</b>
TOF/Plantation	2.83	0.02
<b>Total (Forest Cover/Scrub)</b>	<b>18006.41</b>	<b>100.00</b>

**Forestry Sector:** When Mizoram became Union Territory in 1972, the State Forest Department was also established headed by Director of Forests as head of Department. Initially, the whole of Mizoram was divided into only two territorial Forest Divisions namely Aizawl Forest Division and Lunglei Forest Division. The head of the Department (Director of Forests) was then re-named as Chief Conservator of Forests with the creation of new post of Chief Conservator of Forests in 1983.

In 1987, the Forest Department of Mizoram was re-named as *Environment & Forest Department* vide No. 13015/183-FST dt 8.4.1987 and the head of the Department was upgraded from Chief Conservator of Forest (CCF) to Principal Chief Conservator of Forests (PCCF) in 1988. With inclusion of the subject *Climate Change*, the name of the Department *Environment & Forests Department* was then re-named as *Environment, Forests & Climate Change Department* vide Notification No.A.46013/2006-GAD/Loose dt 19.4.2016.

**b) Compensatory afforestation, other forestry & related schemes (Physical & Financial) including CATP during last 5 years from State Fund.**

S.No	Scheme	Activities	Year	Achievement	
				Phy. (in ha.)	Fin. (in ha.)
1.	New Economic Development Project (NEDP)	Mixed Plantation	2018-19	500	76.95
<b>TOTAL</b>				<b>500</b>	<b>76.95</b>

**(c) Forestry and other related schemes (Physical & Financial) and activities carried out in Mizoram in previous years from fund received under other scheme of Govt. of India.**

Scheme (CSS)	Physical	Financial Central Only (Rs. in lakhs)				
		2017-18	2018-19	2019-20	2020-21	2021-22
NAP	Afforestation with local people (Through VFDC)	579.72	590.42	Nil	739.59	Nil
GIM	Afforestation with local people (Through Revamped VFDC)	2000.00	2236.42	1967.67	299.48	1670.00
IFMS	Forest fire prevention & other related activities	66.00	86.37	120.21	126.97	87.19
NPCA (Wetland Conservation)	Wetland conservation through afforestation, SMC Measures awareness campaign etc.	98.46	117.2	106.043	309.225	416.882
NBM	Raising of Bamboo plantation with community involvement (Through VFDC)	492.75	514.04	Nil	Nil	Nil
IDWH		477.75	251.2788	437.798	377.0086	198.968

**d) Year-wise total Forest Area diverted in various District/ Forests Divisions in Mizoram since 1980.**

<b>Sl.No</b>	<b>Year</b>	<b>Area of forest diverted (Ha.)</b>
1	1990-1991	3020
2	1994-1995	5477.24
3	1995-1996	0.92
4	1996-1997	0
5	1997-1998	159.6
6	1998-1999	0.62
7	1999-2000	89.123
8	2000-2001	0.63
9	2001-2002	59.42
10	2002-2003	1.114
11	2003-2004	0
12	2004-2005	0.18
13	2005-2006	0
14	2006-2007	0
15	2007-2008	0.4535
16	2008-2009	269.23585
17	2009-2010	0
18	2010-2011	0
19	2011-2012	270.883
20	2012-2013	407.721
21	2013-2014	75.4845
22	2014-2015	36.2824
23	2015-2016	0
24	2016-2017	1519.57
25	2017-2018	4.98
26	2018-2019	22.79
27	2019-2020	0.48
28	2020-2021	122.23
29	2021-2022	4.3629
30	2022-2023	84.5443

**Total forest land diverted in Mizoram since 1980 : 11627.8645 Ha**

**e) Year-wise total compensatory afforestation carried out in Mizoram since 1980.**

S.No	Year	Name of Project	Work Description	Area (in ha.)
1	1980-08	KDZKT Road, 132 Kv Line (Badharpur-Aizawl), Construction of IBB Fencing and Patrol Road (Demagiri-Bharapansuri)	Achieved	5638.24
2	2009-10	Serlui Hydro Electric Power	Advanced work	632
		Tuivai Hydro Electric Power	Advanced work	32.57
3	2010-11	Tuivawl Bridge	Advanced work	0.2817
		Champhai-Hnahlan-Khuangphah Road	Advanced work	110.195
		Regeneration & Protection	Advanced work	57
		20 MW Thermal Power Plant at Bairabi	Advanced work	3.57
		Petrol Pump at Sairang	Advanced work	0.36
4	2011-12	-NIL-		
5	2012-13	-NIL-		
6	2013-14	20 MW Thermal Power Plant at Bairabi	Creation	3.57
		Champhai-Hnahlan-Khuangphah Road	Creation	110.198
		Petrol Pump at Sairang	Creation	0.36
		Serlui Hydro Electric Power	Creation	632
		Tuivai Hydro Electric Power	Creation	32.57
		Tuivawl Bridge	Creation	0.2817
		Regeneration & Protection	Creation	57
7	2014-15	Serlui Hydro Electric Power	1st Year maintenance	632
		Tuivai Hydro Electric Power	1st Year maintenance	32.57
		Construction of Bridge over River Tuivawl	1st Year maintenance	0.2817
		Champhai-Hnahlan-Khuangphah Road	1st Year maintenance	110.195
		20 MW Thermal Power Plant at Bairabi	1st Year maintenance	3.57
		Establishment of petrol pump at Sairang	1st Year maintenance	0.36
		New BG Railway Line between Bairabi - Sairang	Advanced work	27.93
		Construction of 400 KV DC Transmission line between Sakawrtuichhun (Sihhmui) to Srikona (Silchar)	Advanced work	768.062
		Improvement and Widening of SerchhipBuarpui road	Advanced work	2
		Tuirial Hydro Electric Project	Advanced work	591
8	2015-16	Serlui Hydro Electric Power	2nd Year maintenance	632
		Tuivai Hydro Electric Power	2nd Year maintenance	32.57

		Construction of Bridge over River Tuivawl	2nd Year maintenance	0.2817
		Champhai-Hnahlan-Khuangphah Road	2nd Year maintenance	110.195
		20 MW Thermal Power Plant at Bairabi	2nd Year maintenance	3.57
		Establishment of petrol pump at Sairang	2nd Year maintenance	0.36
		New BG Railway Line between Bairabi - Sairang	Creation	27.93
		Improvement and Widening of SerchhipBuarpui road	Creation	2
		Tuirial Hydro Electric Project	Creation	591
		Widening of NH-44-A (Lengpui-Langkaih)	Advanced work	56.633
		New BG Railway Line between Bairabi - Sairang	Advanced work	46.555
		Improvement of Chhumkhum - Chawngte Road	Advanced work	3.85
9	2016-17	Serlui Hydro Electric Power	3rd Year maintenance	632
		Tuivai Hydro Electric Power	3rd Year maintenance	32.57
		Construction of Bridge over River Tuivawl	3rd Year maintenance	0.2817
		Champhai-Hnahlan-Khuangphah Road	3rd Year maintenance	110.195
		20 MW Thermal Power Plant at Bairabi	3rd Year maintenance	3.57
		Establishment of petrol pump at Sairang	3rd Year maintenance	0.36
		New BG Railway Line between Bairabi - Sairang	1st Year maintenance	27.933
		Improvement and Widening of SerchhipBuarpui road	1st Year maintenance	2
		Tuirial Hydro Electric Project	1st Year maintenance	591
		Const. of 400 KV DC Transmission line between Sakawrtuichhun (Sihhmui) to Srikona (Silchar)	Creation	768.062
		New BG Railway Line between Bairabi - Sairang	Creation	46.555
		Widening of NH-44-A (Lengpui-Langkaih)	Creation	56.633
		Improvement of Chhumkhum - Chawngte Road	Creation	3.85
		Tuirial Hydro Electric Project	Advanced work	147.5
10	2017-18	Serlui Hydro Electric Power	4th Year maintenance	632
		Tuivai Hydro Electric Power	4th Year maintenance	32.57
		Construction of Bridge over River Tuivawl	4th Year maintenance	0.2817
		Champhai-Hnahlan-Khuangphah Road	4th Year maintenance	110.195
		20 MW Thermal Power Plant at Bairabi	4th Year maintenance	3.57
		Establishment of petrol pump at Sairang	4th Year maintenance	0.36
		New BG Railway Line between Bairabi - Sairang	2nd Year maintenance	27.933
		Improvement and Widening of SerchhipBuarpui road	2nd Year maintenance	2
		Tuirial Hydro Electric Project	2nd Year maintenance	591



		Construction of 400 KV DC Transmission line between Sakawrtuichhun (Sihhmui) to Srikona (Silchar)	1st Year maintenance	768.062
		New BG Railway Line between Bairabi - Sairang	1st Year maintenance	46.555
		Widening of NH-44-A (Lengpui-Langkaih)	1st Year maintenance	56.633
		Improvement of Chhumkhum - Chawngte Road	1st Year maintenance	3.85
		Tuirial Hydro Electric Project	Advanced work	346.5
		Bridge over Kawrawnglui	Advanced work	0.2424
		MSRP-II (Gr-I) Tlabung-Kawrupuichhuah	Advanced work	4.98
11	2018-19	Serlui Hydro Electric Power	5th Year maintenance	632
		Tuivai Hydro Electric Power	5th Year maintenance	32.57
		Construction of Bridge over River Tuivawl	5th Year maintenance	0.2817
		Champhai-Hnahlan-Khuangphah Road	5th Year maintenance	110.195
		20 MW Thermal Power Plant at Bairabi	5th Year maintenance	3.57
		Establishment of petrol pump at Sairang	5th Year maintenance	0.36
		New BG Railway Line between Bairabi - Sairang	3rd Year maintenance	27.933
		Improvement and Widening of Serchhip-Buarpu road	3rd Year maintenance	2
		Tuirial Hydro Electric Project	3rd Year maintenance	591
		Construction of 400 KV DC Transmission line between Sakawrtuichhun (Sihhmui) to Srikona (Silchar)	2nd Year maintenance	768.062
		New BG Railway Line between Bairabi - Sairang	2nd Year maintenance	46.555
		Widening of NH-44-A (Lengpui-Langkaih)	2nd Year maintenance	56.633
		Improvement of Chhumkhum - Chawngte Road	2nd Year maintenance	3.85
		Tuirial Hydro Electric Project	Creation	346.5
		Bridge over Kawrawnglui	Creation	0.2424
		MSRP-II (Gr-I) Tlabung-Kawrupuichhuah	Creation	4.98
		Tuirial Hydro Electric Project	Advanced work	1462.5
12	2019-20	NIL		
13	2020-21 (including liability of 2019-20)	Widening & Upgradation of NH-54 to 2-lane (Package-1&2) km 8.00-250 within Lawngtlai District	Advanced work	12.09
		Construction of NH-150 (Zemabawk - E.Phaileng road)	Advanced work	23.69
		IBB Fencing & Patrol roads inside DTR	Advanced work	1521
		Construction of Tuirial Hydro Electric Project	Creation	432.5
		IBB Fencing & Patrol roads inside DTR	Creation	804
		Construction of Tuirial Hydro Electric Project	1 <sup>st</sup> &2 <sup>nd</sup> Year maint.	346.5

		Construction of Bridge over Kawrawnghui	1 <sup>st</sup> &2 <sup>nd</sup> Year Maint.	0.2424
		MSRP-II, Gr-I (Tlabung – Kawrpuchhuah road)	1 <sup>st</sup> &2 <sup>nd</sup> Year Maint.	4.98
		Construction of 400 KV Transmission line from Srikona – Melriat (Sakawrtuichhun)	3 <sup>rd</sup> &4 <sup>th</sup> Year Maint.	768.062
		Construction of railway BG line from Bairabi – Sairang	3 <sup>rd</sup> &4 <sup>th</sup> Year Maint.	46.555
		MSRP-II, Gr – I (Chhumkhum – Chawngte road)	3 <sup>rd</sup> &4 <sup>th</sup> Year Maint.	3.85
		Construction of Lengpui – Langkaih, NH-44A	3 <sup>rd</sup> & 4 <sup>th</sup> year Maint.	56.633
		Construction of Tuirial Hydro Electric Project	4 <sup>th</sup> & 5 <sup>th</sup> Year Maint.	591
		Improvement of Serchhip – Buarpui road	4 <sup>th</sup> &5 <sup>th</sup> Year Maint.	2.00
		Construction of BG railway line from Bairabi – Sairang	4 <sup>th</sup> &5 <sup>th</sup> Year Maint.	27.933
14	2021-22	Construction of 132 KV Transmission line from (Sakawrtuichhun - Sihhmui)	Advanced work	18.78
		Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-380 within Lawngtlai District	Advanced work	4.81
		Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-380 within Siaha District	Advanced work	6.37
		Widening & Upgradation of NH-54 to 2-lane (Package-1&2) km 8.00-250 within Lawngtlai District	Creation	12.09
		Construction of NH-150 (Zemabawk – E.Phaileng road)	Creation	23.69
		IBB Fencing & Patrol roads inside DTR	Creation	717
		Construction of Tuirial Hydro Electric Project	Creation	551
		Construction of Tuirial Hydro Electric Project	1 <sup>st</sup> Year maint.	432.5
		Construction of Tuirial Hydro Electric Project	3 <sup>rd</sup> Year maint.	346.5
		Construction of Bridge over Kawrawnghui	3 <sup>rd</sup> Year Maint.	0.2424
		MSRP-II, Gr-I (Tlabung – Kawrpuchhuah road)	3 <sup>rd</sup> Year Maint.	4.98
		Construction of 400 KV Transmission line from Srikona – Melriat (Sakawrtuichhun)	5 <sup>th</sup> Year Maint.	768.062
		Construction of railway BG line from Bairabi – Sairang	5 <sup>th</sup> Year Maint.	46.555
		MSRP-II, Gr – I (Chhumkhum – Chawngte road)	5 <sup>th</sup> Year Maint.	3.85
		Construction of Lengpui – Langkaih, NH-44A	5 <sup>th</sup> year Maint.	56.633
		Construction of BG railway line from Bairabi – Sairang	6 <sup>th</sup> Year Maint.	27.933
15	2022-23	Construction of 132 KV Transmission line from (Sakawrtuichhun - Sihhmui)	Creation	18.78
		Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-380 within Lawngtlai District	Creation	4.81
		Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-380 within Siaha District	Creation	6.37
		Widening & Upgradation of NH-54 to 2-lane (Package-1&2) km 8.00-250 within Lawngtlai District	1 <sup>st</sup> Year maint.	12.09
		Construction of NH-150 (Zemabawk – E.Phaileng road)	1 <sup>st</sup> Year maint.	23.69
		IBB Fencing & Patrol roads inside DTR	1 <sup>st</sup> Year maint.	717
		Construction of Tuirial Hydro Electric Project	1 <sup>st</sup> Year maint.	551

		IBB Fencing & Patrol roads inside DTR	1 <sup>st</sup> & 2 <sup>nd</sup> Year maint.	804
		Construction of Bridge over Kawrawnglui	4 <sup>th</sup> Year Maint.	0.2424
		MSRP-II, Gr-I (Tlabung – Kawrpuichhuah road)	4 <sup>th</sup> Year Maint.	4.98
		Construction of railway BG line from Bairabi – Sairang	6 <sup>th</sup> Year Maint.	46.555
		MSRP-II, Gr – I (Chhumkhum – Chawngte road)	6 <sup>th</sup> Year Maint.	3.85
		Construction of BG railway line from Bairabi – Sairang	7 <sup>th</sup> Year Maint.	27.933

The total area of CA which have been taken up under Mizoram State CAMPA Authority at DFL & NFL are **11295.4321 Ha**

**f) Brief description and abstract of the monitoring work done by the Monitoring and Evaluation Wing of the State Forest Department.**

Since there is no separate Monitoring and Evaluation wing under Mizoram Forest Department, Senior Forest Officers such as CF and above conducted monitoring activities as and when required and necessary action/directions were given to the implementing Divisions based on performance.

**g) Brief description and abstract of the monitoring work done by the independent monitor (Third Party Monitoring) in the State.**

The State Forests Department has been undertaking various works viz. Compensatory Afforestation (CA) and Non-Compensatory Afforestation (Plantation works other than CA) works with funds provided under APOs of 2009-20 till 2019-20 of State CAMPA *in lieu* of forest land diverted in respect of various FCA Projects.

In compliance of the guidelines on State CAMPA and Ministry of Environment, Forests & Climate Change D.O letter No. 15-2(0)/2014-CAMPA dt. 18.9.2014, the State Environment & Forests Department engaged Third party / Independent Monitoring Agencies viz Association for Environmental Preservation (ASEP) and Save Environment Association (SENA) vide B.20018/23/2015-CAMPA/PCCF/6 dt. 30.03.2017. The Independent Monitoring Agency had conducted monitoring of works undertaken for the APO year 2016-17 in various territorial Forest Divisions in the State under CAMPA during the month of April and May, 2017.

Further, the State Forest Department had also engaged Independent Monitoring Agency viz CEP (Centre for Environment Protection) to carry out Monitoring and Evaluation of works under CAMPA APO (2016-17 & 2017-18) vide Memo No.

B.11021/9/2015-FST dt. 19.03.2019 for which the monitoring works has been completed and submitted to the Ministry. Association for Environmental Preservation (ASEP) carry out Monitoring and Evaluation of works under CAMPA APO (2018-19 to 2020-21) and the report had been submitted vide No.B.20018/23(A)/2021-CAMPA/PCCF/120 dt.26.7.2022.

In addition, the State Forests Department conducts Internal monitoring and evaluation of various CA and non-CA works undertaken in various territorial Forest Divisions from time to time.

**(h) Any other important information for consideration relevant for preparing APO**

The Principal Amount (Total amount accumulated in the State CAMPA account) is Rs.171.63 crore (Rs. One hundred seventy one crore sixty three lakh only) and the stipulated limit which can be released per year is 10% of the Principal amount.

Since the Principal amount for 2023-24 is Rs. 171.63 crore (approx) thus, the (10%) becomes Rs. 17.16 crore (approx). In APO there are mainly three components under which various activities are proposed i.e. CA, NPV and Interest component.

For APO 2023-24 under CA component, Rs. 0.61 crore is proposed for mandatory afforestation works viz CA. Under NPV component, Rs. 15.67 crore is proposed and under Interest component, Rs. 0.75 crore is proposed.

**Thus, the total amount proposed for APO 2023-24 is Rs. 17.03 Crore.**

**PART II**

**Activities to be undertaken for CA**

**ABSTRACT OF COST OF CA UNDER APO (2022-23)**

<b>S.No</b>	<b>Plantation works</b>		<b>Amount (in Crore)</b>
1	Compensatory Afforestation	CA proposed for APO 2023-24	<b>0.61</b>
<b>Grand total :</b>			<b>0.61</b>

## 1. COMPENSATORY AFFORESTATION :

### Physical & Financial targets proposed for APO 2023-24

Sl.No	Name of FC Proposal	Division	Phy. Target (in ha)	Work Items	Fin. Target (in Rs.)
1	Construction of 132 Kv Transmission Line (Sakawrtuichhun - Sihhmui)	Aizawl	18.78	1st Year Maintenance	2,06,171
2	Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-380 within Lawngtlai District	LADC	4.81	1st Year Maintenance	52,805
3	Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-350 within Siaha District	MADC	6.37	1st Year Maintenance	69,931
4	Widening & Upgradation of NH-54 to 2-lane (Package- 1&2) km 8.00-250 within Aizawl & Lunglei District	Darlawn	12.09	2nd Year Maintenance	88,484
5	Construction of NH-150 (Zemabawk - E.Phaileng road)	Darlawn	23.69	2nd Year Maintenance	1,62,040
6	IBB Fencing inside Dampa Tiger Reserve	Darlawn	717	2nd Year Maintenance	52,47,580
7	Construction of bridge over Kawrawnglui	Lunglei	0.2424	5th Year Maintenance	1,380
8	MSRP-II, Gr-I (Tlabung - Kawrpuichhuah road)	Darlawn	4.98	5th Year Maintenance	28,348
9	Construction of railway BG line from Bairabi - Sairang	Darlawn	46.555	7th Year Maintenance	2,27,151
10	MSRP-II, Gr-I ( Chhumkhum - Chawngte road)	Darlawn	3.85	7th Year Maintenance	18,785
11	Construction of BG railway line from Bairabi - Sairang	Darlawn	27.933	8th Year Maintenance	1,36,291
<b>Sub-Total (a)</b>			<b>866.3</b>		<b>62,38,966</b>
	Amount ot offset from Interest (b)				1,62,040
	<b>Total for CA (a-b)</b>				<b>60,76,926</b>

**1. (A) ABSTRACT OF COST OF CA SCHEME UNDER APO 2023-24**

Sl. No	Name of FC Proposal	Forest Land Diverted (in Ha)	Stipulation of CA (with integrated activity) (in Ha)	Proposed Target / Allocation during 2023-24			Total Estimated cost
				Status of Activity	Division	Phy. Target (in ha)	
1	Construction of 132 Kv Transmission Line (Sakawrtuichhun - Sihhmui)	9.39	18.78	Plantation created, 1st year maint. is proposed in the APO 2023-24	Aizawl	18.78	2,06,171
2	Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-380 within Lawngtlai District	11.18	11.18	Plantation created, 1st year maint. is proposed in the APO 2023-24	LADC	4.81	52,805
3	Widening & Upgradation of NH-54 to 2-lane (Package-3) km 250-350 within Siaha District			Plantation created, 1st year maint. is proposed in the APO 2023-24	MADC	6.37	69,931
4	Widening & Upgradation of NH-54 to 2-lane (Package- 1&2) km 8.00-250 within Aizawl & Lunglei District	12.09	12.09	Plantation created, yearly maint. with allied activities are on progress up to 1st yr. maintenace. 2nd yr maintenance is proposed in APO 2023-24	Darlawn	12.09	88,484
5	Construction of NH-150 (Zemabawk - E.Phaileng road)	23.69	23.69	Plantation created, yearly maint. with allied activities are on progress up to 1st yr. maintenace. 2nd yr maintenance is proposed in APO 2023-24	Darlawn	23.69	1,62,040
6	IBB Fencing inside Dampa Tiger Reserve	1521	1521	Plantation created, yearly maint. with allied activities are on progress up to 1st yr. maintenace. 2nd yr maintenance is proposed in APO 2023-24	Darlawn	717	52,47,580
7	Construction of bridge over Kawrawnglui	0.2424	0.2424	Plantation created, yearly maint. with allied activities are on progress up to 4th yr. maintenace. 5th yr maintenance is proposed in APO 2023-24	Lunglei	0.2424	1,380

8	MSRP-II, Gr-I (Tlabung - Kawrpuichhuah road)	4.98	4.98	4.98	Plantation created, yearly maint. with allied activities are on progress up to 5th yr. maintenance. 6th yr maintenance is proposed in APO 2023-24	Darlawn	4.98	28,348	
9	Construction of railway BG line from Bairabi - Sairang	74.4882	74.4882	74.4882	Plantation created, yearly maint. with allied activities are on progress up to 5th yr. In the APO 2023-24, 6th yr maintenance is proposed	Darlawn	46.555	2,27,151	
10	MSRP-II, Gr-I ( Chhumkhum - Chawngte road)	3.85	3.85	3.85	Plantation created, yearly maint. with allied activities are on progress up to 5th yr. In the APO 2023-24, 6th yr maintenance is proposed	Darlawn	3.85	18,785	
11	Construction of BG railway line from Bairabi - Sairang	74.4882	74.4882	74.4882	Plantation created, yearly maint. with allied activities are on progress up to 7th yr. In the APO 2023-24, 8th yr maintenance is proposed	Darlawn	27.933	1,36,291	
<b>TOTAL</b>								<b>866.30</b>	<b>62,38,966</b>



**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**

(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980

Vide letter No. 3-MZ C 005/2014-SHI/241-42 dt. 17.07.2017

Major Head : 2406		Forestry & Wildlife			FUND POSITION						
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency	36,85,965					
Minor Head : 103		State Compensatory Afforestation (S.C.A)			Fund utilized till 31.03.2023	12,59,715					
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24	2,06,171					
Status of the CA scheme											
1st year maintenance											
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount		
1	2	3	4	5	6	7	8	9	10		
	Construction of 132 KV Transmission Line (Sakawrtunchhun to Sihhmui)	Aizawl	Sairang	Lungsezang, Setlak ram (Tlawng RRF)	(a) Weeding 3 times + vacancy filling (10+9+5)	Ha	18.78	9120	1,71,274		
					(b) Fire protection measures			1140	21,409		
					<b>Sub- Total :</b>					<b>10,260</b>	<b>1,92,683</b>
					Monitoring & Evaluation (2% of plantation cost)						
	Over head (5% of plantation cost)								9,634		
	<b>Total :</b>								<b>2,06,171</b>		

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**Vide letter No. 3-MZ C 079/2017-SHI/828-29 dt. 20.08.2019**

Major Head : 2406		Forestry & Wildlife			FUND POSITION				
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency :	28,48,750			
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023	7,49,850			
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24	52,805			
Status of the CA scheme									
1st year maintenance									
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount
1	2	3	4	5	6	7	8	9	10
2	Widening & Upgradation of NH-54 to 2-lane (Package-3) Km 250-380 within Lawngtlai District	LADC	Lawngtlai	Mampui ram	(a) Weeding 3 times + vacancy filling (10+9+5)	Ha	4.81	9120	43,867
					(b) Fire protection measures			1140	5,483
					<b>Sub- Total :</b>			<b>10,260</b>	<b>49,351</b>
	Monitoring & Evaluation (2% of plantation cost)								987
	Over head (5% of plantation cost)								2,468
<b>Total :</b>								<b>52,805</b>	

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**Vide letter No. 3-MZ C 079/2017-SHI/828-29 dt. 20.08.2019**

Major Head : 2406		Forestry & Wildlife			FUND POSITION				
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency	28,48,750			
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023	7,49,850			
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24	69,931			
<b>1st year maintenance</b>									
Status of the CA scheme	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
3	Widening & Upgradation of NH-54 to 2- lane (Package-3) Km 250-380 within Siaha District	MADC	Bualpui Ng	Siahtla - Tlapi road, Bualpui Ng, Lapi Parohpa, Laikaichha	(a) Weeding 3 times + vacancy filling (10+9+5)	Ha	6.37	9120	58,094
					(b) Fire protection measures			1140	7,262
					<b>Sub- Total :</b>			<b>10,260</b>	<b>65,356</b>
					Monitoring & Evaluation (2% of plantation cost)				1,307
					Over head (5% of plantation cost)				3,268
					<b>Total :</b>				<b>69,931</b>

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**Vide letter No. 3-MZ C 076/2017-SHI/830-31 dt. 20.08.2019**

Major Head : 2406		Forestry & Wildlife			FUND POSITION								
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency :	29,08,750							
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023 :	9,53,663							
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24	88,484							
Status of the CA scheme													
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount				
1	2	3	4	5	6	7	8	9	10				
4	Widening & Upgradation of NH-54 to 2-lane (Package 1&2) km 8.00 to 250 within Aizawl & Lunglei District	Darlawn	Suangpuilawn	Khawten tlang, Ramrikawr, Suangpuilawn	(a) Weeding 2 times (10+5)	Ha	12.09	5700	68,913				
					(b) Fire protection measures			1140	13,783				
					<b>Sub- Total :</b>							<b>6,840</b>	<b>82,696</b>
					Monitoring & Evaluation (2% of plantation cost)								1,654
					Over head (5% of plantation cost)				4,135				
<b>Total :</b>									<b>88,484</b>				

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2022-2023**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**Vide letter No. 3-MZ C 065/2010-SHI/2472-43 dt. 29.10.2019**

Major Head : 2406		Forestry & Wildlife			FUND POSITION		9,41,125		
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency :		18,68,603		
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023 :		1,62,040		
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24		Amount in Rupees		
<b>2nd year maintenance</b>									
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount
1	2	3	4	5	6	7	8	9	10
5	Construction of NH-150 (Zemabawk - E.Phaileng road)	Darlawu	Ratu	Mualkawi hia, Damdiai	(a) Weeding 3 times + vacancy filling (10+9+5) (b) Fire protection measures	Ha	23.69	5700 1140	135033 27007
<b>Total :</b>									<b>1,62,040</b>

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the State Govt. under Forest (Conservation) Act, 1980**  
**Vide letter No. G.20015/39/2015-FST/87 dt. 19.9.2016**

Major Head : 2406		Forestry & Wildlife			FUND POSITION							
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency : Rs.	13,89,68,779						
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023	13,33,80,191						
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24	52,47,580						
<b>2nd year maintenance</b>												
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>			
6	IBB Fencing and Patrol road inside DTR	Darlawm	1) Khawrruh -lian 2) Ratu 3) Darlawm	1) Buhban (126.70) 2) Lallak, Hmarcha hamun (127.53) 3) Khawrruhlian, Mualkar ram (158.05) 4) Sunhluchhip, Kantar ram (91.14) 5) Chhanchhuahna, Lawikal, mual (183.58) 6) Lungsum, Selemual (30)	(a) Weeding 2 times (10+5)	Ha	717	5700	40,86,900			
					(b) Fire protection measusres			1140	8,17,380			
					<b>Sub- Total :</b>						<b>6,840</b>	<b>49,04,280</b>
					Monitoring & Evaluation (2% of plantation cost)							98,086
					Over head (5% of plantation cost)				2,45,214			
<b>Total :</b>									<b>52,47,580</b>			

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**Vide letter No. 3-MZ C 006/2014-SHI/3977-78 dt. 7.12.2016**

Major Head : 2406		Forestry & Wildlife			FUND POSITION				
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency :		21,587		
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023 :		18,472		
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24		1,380		
<b>5th Year Maintenance</b>									
Status of the CA scheme							Amount in Rupees		
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount
1	2	3	4	5	6	7	8	9	10
					(a) Weeding/tending	Ha	0.2424	4560	1,105
					(b) Fire protection measures			760	184
					<b>Sub- Total :</b>			<b>5,320</b>	<b>1,290</b>
7	Construction of Bridge over Kawrawnglui	Lunglei	Tawipui	Near Ramhuai lui, Minzau ram	Monitoring & Evaluation (2% of plantation cost)				26
					Over head (5% of plantation cost)				64
					<b>Total :</b>				<b>1,380</b>

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**vide No. 3-MZ C 067/2016-SHI/998-99 dt. 12.06.2018**

Major Head : 2406		Forestry & Wildlife				FUND POSITION				
Sub Major Head : 4		Afforestation and Ecological Development				Approved CA cost recovered from User Agency :	5,32,560			
Minor Head : 103		State Compensatory Afforestation (SCA)				Fund utilized till 31.03.2023:	3,77,862			
Sub-Head : 18		State Authority Mizoram				Proposed Fund allocation during the year 2023-24	28,348			
<b>5th Year Maintenance</b>										
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount	
1	2	3	4	5	6	7	8	9	10	
8	MSRP-II, Gr-I (Tlabung - Kawrpuchhuah road)	Darlawn	Darlawn	Sasaw tiang	(a) Weeding / tending	Ha	4.98	4560	22,709	
					(b) Fire protection measures			760	3,785	
					<b>Sub- Total :</b>				<b>5,320</b>	<b>26,494</b>
					Monitoring & Evaluation (2% of plantation cost)					530
	Over head (5% of plantation cost)							1,325		
<b>Total :</b>								<b>28,348</b>		



**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**Vide letter F.No. 8-38/2012-FC dt. 23.07.2014**

Major Head : 2406		Forestry & Wildlife			FUND POSITION						
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency :	79,80,442					
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023 :	66,45,741					
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24	2,27,151					
<b>7th Year Maintenance</b>											
Status of the CA scheme											
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>		
9	Construction of railway BG line from Bairabi - Sairang	Darlawn	Darlawn	Lenhmui zawl, N.Serzawl	(a) Weeding / tending	Ha	46.555	3800	1,76,909		
					(b) Fire protection measures			760	35,382		
					<b>Sub- Total :</b>					<b>4,560</b>	<b>2,12,291</b>
					Monitoring & Evaluation (2% of plantation cost)					4,246	
	Over head (5% of plantation cost)							10,615			
<b>Total :</b>									<b>2,27,151</b>		

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**Vide letter No. 3-MZ B 017/2014-SHI/104-08 dt. 13.04.2016**

Major Head : 2406		Forestry & Wildlife			FUND POSITION				
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency:	4,11,719			
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023 :	,35,221			
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24	18,785			
<b>Status of the CA scheme</b>									
<b>7th Year Maintenance</b>									
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount
1	2	3	4	5	6	7	8	9	10
10	MSRP-II Gr-I (Chhumkhum - Chawngte road)	Darlawm	Darlawm	Sasaw dang, Sawleng	(a) Weeding / tending	Ha	3.85	3800	14,630
					(b) Fire protection measures			760	2,926
					<b>Sub- Total :</b>			<b>4,560</b>	<b>17,556</b>
					Monitoring & Evaluation (2% of plantation cost)				351
				Over head (5% of plantation cost)				878	
<b>Total :</b>									<b>18,785</b>

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME (CAS) - PROJECT WISE UNDER APO 2023-24**  
**(Based on Forest Clearance conveyed by the MoEFCC, GOI under Forest (Conservation) Act, 1980**  
**Vide letterF.No. 8-38/2012-FC dt. 23.07.2014**

Major Head : 2406		Forestry & Wildlife			FUND POSITION						
Sub Major Head : 4		Afforestation and Ecological Development			Approved CA cost recovered from User Agency :						
Minor Head : 103		State Compensatory Afforestation (SCA)			Fund utilized till 31.03.2023 :						
Sub-Head : 18		State Authority Mizoram			Proposed Fund allocation during the year 2023-24						
<b>8th Year Maintenance</b>											
Sl.No	Name of scheme stipulated for the approved FC case	Division	Range	Location	Item of works	Unit	Physical target to the achieved	CA cost per ha. @ Rs. 380/- manday	Amount		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>		
11	Construction of BG Railway line from Bairabi - Sairang	Darlawm	Darlawm	Leihmui zawl, N.Serzawl	(a) Weeding / tending	Ha	27.933	3800	1,06,145		
					(b) Fire protection measures			760	21,229		
					<b>Sub- Total :</b>					<b>4,560</b>	<b>1,27,374</b>
					Monitoring & Evaluation (2% of plantation cost)						2,547
					Over head (5% of plantation cost)				6,369		
<b>Total :</b>									<b>1,36,291</b>		

## COMPENSATORY AFFORESTATION SCHEME

Implementing Agency : Environment, Forests & Climate Change  
Department, Mizoram

Analysis per hectare rate for various work items under Compensatory Afforestation to be taken up under  
Forest (Conservation) Act, 1980

(Rs. 380 /- per manday)

(1100 plants per ha)

Sl.N	Item of work	Manday required (in No.)	Labour Component (in Rs)	Material Component (in Rs)	Cost/Ha (in Rs)
1	2	3	4	5	6
1	<b>Advance works including nursery</b>				
	(a) Survey and demarcation including mapping	3	1140		1140
	(b) Area preparation by cutting grasses & shrubs	20	7600		7600
	(c) Fire line cutting, burning and maintenance	6	2280		2280
	(d) Clearance of site for nursery, preparation of nursery bed, filling of poly-bags, manuring, shed erection	20	7600		7600
	(e) Cost of seeds, poly-bags, implements etc	0		1890	1890
	(f) Treatment and sowing of seeds	5	1900		1900
	(g) Weeding & watering	11	4180		4180
	<b>Sub Total</b>	<b>65</b>	<b>24700</b>	<b>1890</b>	<b>26590</b>
2	<b>Creation of plantation</b>				
	a) Site preparation, alignment, preparation of stakes, digging of pits, preparation of planting materials, carriage to planting site, planting/sowing, construction of camp shed, inspection path, signboard and other misc. works	25	9500		9500
	(b) Weeding 3 times including vacancy filling and watch & ward	67	25460		25460
	(c) Fire protection measures like fire line cutting, engagement of fire watchers	3	1140		1140
	<b>Sub Total</b>	<b>95</b>	<b>36100</b>		<b>36100</b>
3	<b>Maintenance of Plantation</b>				
	<b>(i) Maintenance after 1st year</b>				
	(a) Weeding 3 times + vacancy filling (10+9+5)	24	9120		9120
	(b) Fire protection measures	3	1140		1140
	<b>Sub Total</b>	<b>27</b>	<b>10260</b>		<b>10260</b>
	<b>(ii) Maintenance after 2 years</b>				
	(a) Weeding 2 times (10+5)	15	5700		5700
	(b) Fire protection measures	3	1140		1140
	Add 25% for anticipated revision of wage rate				1710
	<b>Sub Total</b>	<b>18</b>	<b>6840</b>		<b>8550</b>
	<b>(iii) Maintenance after 3 years</b>				
	(a) Weeding 2 times (8+5)	13	4940		4940
	(b) Fire protection measures	3	1140		1140
	Add 25% for anticipated revision of wage rate				1520
	<b>Sub Total</b>	<b>16</b>	<b>6080</b>		<b>7600</b>

	<b><i>(iv) Maintenance after 4 years</i></b>				
	(a) Weeding 2 times (8+5)	13	4940		4940
	(b) Fire protection measures	3	1140		1140
	Add 50% for anticipated revision of wage rate				3040
	<b><i>Sub Total</i></b>	<b>16</b>	<b>6080</b>		<b>9120</b>
	<b><i>(v) Maintenance after 5 years</i></b>				
	(a) Weeding/tending	12	4560		4560
	(b) Fire protection measures	2	760		760
	Add 50% for anticipated revision of wage rate				2660
	<b><i>Sub Total</i></b>	<b>14</b>	<b>5320</b>		<b>7980</b>
	<b><i>(vi) Maintenance after 6 years</i></b>				
	(a) Weeding/tending	12	4560		4560
	(b) Fire protection measures	2	760		760
	Add 75% for anticipated revision of wage rate				3990
	<b><i>Sub Total</i></b>	<b>14</b>	<b>5320</b>		<b>9310</b>
	<b><i>(vii) Maintenance after 7 years</i></b>				
	(a) Weeding/tending	10	3800		3800
	(b) Fire protection measures	2	760		760
	Add 75% for anticipated revision of wage rate				3420
	<b><i>Sub Total</i></b>	<b>12</b>	<b>4560</b>		<b>7980</b>
	<b><i>(viii) Maintenance after 8 years</i></b>				
	(a) Weeding/tending	10	3800		3800
	(b) Fire protection measures	2	760		760
	Add 100% for anticipated revision of wage rate				4560
	<b><i>Sub Total</i></b>	<b>12</b>	<b>4560</b>		<b>9120</b>
	<b><i>Total of Plantation Cost</i></b>	<b>289</b>	<b>109820</b>	<b>1890</b>	<b>132610</b>
4	Soil & Moisture Conservation measures including construction of check dams, gully plugging, contour trenching, water harvesting structures etc. whatever necessary within the project area (15% of plantation cost)				19,892
5	Fencing (5% of plantation cost)				6,631
6	Monitoring & Evaluation (2% of plantation cost)				2,652
7	Overheads (10% of plantation cost)				13261
	<b>Grand Total :</b>	<b>289</b>	<b>109820</b>	<b>1890</b>	<b>1,75,046</b>

### PART III

#### Activities to be undertaken from Net Present Value and Interest Component

##### ABSTRACT OF COST OF NPV AND INTEREST

<b>S.No</b>	<b>Items</b>	<b>Amount (Rs in crore)</b>
	<b>Net Present Value</b>	<b>15.666</b>
1.	(A) Core Activities (not less than 80%)	11.852
	(B) Allied Activities (not more than 20%)	3.814
	<b>Interest</b>	<b>0.75</b>
2.	(A) Permissible activities for not less than 60%	0.50
	(B) Permissible activities for not more than 40%	0.25
	<b>Total :</b>	<b>16.416</b>

**1 (A) (i) ABSTRACT OF COST OF NET PRESENT VALUE (NPV)**

*Core activities (not less than 80%)*

S. No.	Item of Works	Physical target	Fin. target (Rs. in lakh)	Relevant CAF Rule(s)	Remarks/Justification
1	Promoting conservation of Community/ Village Forests maintained by local people and NGOs (Protection & enrichment planting)	100 hectare	80.00	5(2)(a)	There are about 700 villages in Mizoram and most of them have safety, supply and community reserve forests with YMA Parks. To ensure their protection and conservation some technical and financial support is required. It will promote conservation of these community/village forests.
2	Advance Work of Aided Natural Regeneration (ANR) in Aizawl, Champhai, Kolasib, Lunglei, N. Vanlaiphai, Thenzawl, Tlabung, Aizawl WL, Khawzawl WL, Chhimituipui WL, MADC, DTR	1800 ha @Rs 11,400 /ha	205.20	5(2)(a)	Enrichment of degraded forests. (As per FSI's ISFR 2021, the Mizoram has 56.68% of open forests out of 84.53% forest cover thus, enrichment of open forests is indispensable.
3	Maintenance of tall seedlings for Avenue Plantations in some forest divisions	200000 nos, @ Rs. 15/-	30.00	5(2)(b)	Since soil erosion and land slide in Mizoram is very common due to hilly terrain thus, Avenue Plantation on road sides will not only stabilize the soil but will also ameliorate aesthetic aspect.
4	Protection of plantations and forests	16 divisions	100.00	5(2)(d)	Due to acute shortage of field staff, the protection of forests & plantations is required with engagement of local people with transportation of seized forest products from interiors, etc.
5	Protection measures viz. engine boats, patrolling path, water supply to nurseries, etc.	8 divisions viz. Aizawl, Darlawn, Kawrthah, Kolasib, Champhai, Aizawl WL, DTR, Protection.	80.00	5(2)(d)	Many illegally transported exotic wildlife animals are seized in recent past thus, some animal rescue centers are urgently required. Further, strengthening of protection activities is also needed.
6	Construction, upgradation and maintenance of inspection paths, forest roads in forest areas for protection duties.	In vulnerable forest divisions	80.00	5(2)(d)	Construction, upgradation and maintenance of inspection paths, forest roads in forest areas for protection duties are essential.

7	Forest Fire Management: Forest fire prevention and control operations :- i) Maintenance of fireline ii) Engagement of fire watcher for 3 months @Rs 11,400 per month iii) Awareness & Control Operation	i) Maintenance of fireline – 468.02 km ii) Engagement of fire watcher -93 nos. iii) Awareness & Control - LS	150.00	5(2)(f)	Forest fire in remote hilly areas is quite common due to prevalent jhum burning thus, prevention measures viz. maintenance of fire-lines, engagement of fire watchers in peak session, construction of watch towers, etc. are required annually.
8	Forest fire prevention and control operations: procurement of forest firefighting equipment.	All territorial and wildlife divisions	50.00	5(2)(f)	Forest fire incidences are common in hilly areas thus, prevention and control with procurement of fire fighting equipment is necessary.
9	Soil & Moisture Conservation works viz. gully plugging, check dams, etc. in the forests	i) Checkdam – 139 nos @1 lakh /no ii) Gully plugging – 3 nos @2 lakh/no iii) Log Wood checkdam – 6 nos @0.50 lakh/no iv) Gabio checkdam – 2 nos @1 lakh/no	150.00	5(2)(g)	Mizoram being a hilly State with steep slopes thus, soil erosion and land slide is very common in hilly terrain with drought in some areas during dry season thus, S&M Conservation activities are felt necessary.
10	Improvement of wildlife habitats	i) Creation of Art. Grassland – 20 ha @0.5 lakh /ha ii) Water hole – 20 nos @0.5/ha iii) Gap filling planting – 50000 nos @50 per seedlings iv) Habitat improvement with S&M measures	85.00	5(2)(i)	To conserve the rich biodiversity in the State in line with prescriptions of approved WL Management Plan/Working Plan the WL habitats need to be improved.
11	Procurement of energy saving devices viz. solar lights for field offices, etc.	Field offices, check-posts, nurseries, etc.	50.00	5(2)(l)	For energy saving in field offices, nurseries, etc.
12	Creation of Seed Production Areas (SPAs) under different Forest Divisions	3 Potential territorial divisions	25.00	5(2)(m)	For raising quality planting material, creation of Seed Production Areas (SPA) is indispensable thus, it may be initiated in 5 forest divisions.
13	Lidar Based Project (SMC works. ANR etc)	Kawrthah & Mamit Division	100.00	5(2)(m)	Forest enrichment, watershed management activities to recharge ground water and other water resources
		<b>Total :</b>	<b>1185.20</b>		



**NPV**

**1 (A) (ii) Proposal under NPV Fund : NPV (A) – Permissible activities under 80% of NPV**

S.No	Item of works	Physical target	Rate (in Rs.)	Fin. Target (Rs. in lakh)	Justification
1	Promoting conservation of Community/ Village Forests maintained by local people and NGOs (YMA etc.)	100 hectare	20,000 / ha	80.00	There are about 700 villages in Mizoram and most of them have safety, supply and community reserve forests with YMA Parks. To ensure their protection and conservation some technical and financial support is required. It will promote conservation of these community/village forests.
2	Aided Natural Regeneration (ANR) in Champbai, Darlawn, Kawrthah, Kolasib, Lunglei, Mamit, N. Vanlaiphai, Thenzawl, Tlabung, Aizawl, Chhimitupui WL, MADC	1800 ha	Rs 11,400 /ha	205.20	Enrichment of degraded forests. (As per FSI's ISFR 2021, the Mizoram has 56.68% of open forests out of 84.53% forest cover thus, enrichment of open forests is indispensable.
3	Maintenance of tall seedlings for Avenue Plantations in some forest divisions	200000 nos.	Rs. 15/ Seedling	30.00	Since soil erosion and land slide in Mizoram is very common due to hilly terrain thus, Avenue Plantation on road sides will not only stabilize the soil but will also ameliorate aesthetic aspect.
4	Protection of plantations and forests	16 divisions	LS	100.00	Due to acute shortage of field staff, the protection of forests & plantations is required with engagement of local people with transportation of seized forest products from interiors, etc.
5	Protection measures viz. engine boats, patrolling path, water supply to nurseries, etc.	8 divisions viz. Aizawl, Darlawn, Kawrthah, Kolasib, Champbai, Aizawl WL, DTR, Protection.	LS	80.00	Many illegally transported exotic wildlife animals are seized in recent past thus, some animal rescue centers are urgently required. Further, strengthening of protection activities is also needed.
6	Construction, up-gradation and maintenance of inspection paths, forest roads in forest areas for protection duties.	In vulnerable forest divisions	LS	80.00	Construction, upgradation and maintenance of inspection paths, forest roads in forest areas for protection duties are essential.
7	Forest Fire Management: Forest fire prevention and control operations	i) Maintenance of fireline – 468.02 km ii) Engagement of fire watcher -93 nos. ii) Awareness & Control	i) Rs 8600 per km ii) Rs 11,400 pm iii) LS	150.00	Forest fire in remote hilly areas is quite common due to prevalent jhum burning thus, prevention measures viz. maintenance of fire-lines, engagement of fire watchers in peak session, construction of watch towers, etc. are required annually.

8	Forest fire prevention and control operations: procurement of forest firefighting equipment.	All territorial and wildlife divisions	LS	50.00	Forest fire incidences are common in hilly areas thus, prevention and control with procurement of fire fighting equipment is necessary.
9	Soil & Moisture Conservation works viz. gully plugging, check dams, etc. in the forests	i) Checkdam – 139 nos ii) Gully plugging – 3 nos iii) Log Wood checkdam – 6 nos iv) Gabion checkdam – 2 nos	i) Rs 1 lakh /no ii) Rs 2 lakh/no iii) Rs 0.50 lakh/no iv) Rs 1 lakh/no	150.00	Mizoram being a hilly State with steep slopes thus, soil erosion and land slide is very common in hilly terrain with drought in some areas during dry season thus, S&M Conservation activities are felt necessary.
10	Improvement of wildlife habitats provided in the approved WL Management Plan or Working Plan	i) Creation of Artificial Grassland ii) Water hole – 20 no iii) Gap filling planting – 50000 nos iv) Habitat improvement with SMC measures	i) Rs 0.5 lakh /ha ii) Rs 0.5 lakh/ha iii) Rs 50 per seedlings	85.00	To conserve the rich biodiversity in the State in line with prescriptions of approved WL Management Plan/Working Plan the WL habitats need to be improved.
11	Procurement of energy saving devices viz. solar lights for field offices, etc.	Field offices, check-posts, nurseries, etc.	LS	50.00	For energy saving in field offices, nurseries, etc.
12	Creation of Seed Production Areas (SPAs) under different Forest Divisions	3 Potential territorial divisions	LS	25.00	For raising quality planting material, creation of Seed Production Areas (SPA) is indispensable thus, it may be initiated in 5 forest divisions.
13	Lidar Based Project	2 forest divisions	LS	100.00	Forest enrichment, watershed management activities to recharge ground water and other water resources
		<b>Total :</b>		<b>1185.20</b>	

**1.(B) (i) ABSTRACT OF COST OF NET PRESENT VALUE (NPV)**

*Allied activities (not more than 20%)*

<b>Sn</b>	<b>Item of Works</b>	<b>Physical target</b>	<b>Fin. target (Rs. in lakh)</b>	<b>Relevant CAF Rule (s)</b>
1	Improvement/upgradation of existing forest nurseries with signboards, inspection paths, repair of fencing, weeding, etc.	All forest divisions	20.00	5(3)(a)
2	Purchase/maintenance of communication devises viz. cell phones, computers, etc. used for monitoring and protection of forests.	LS	10.00	5(3)(c)
3	Purchase of vehicles	8 nos. purchase	96.00	5(3)(c)
4	Construction/repair of check posts, frontline staff quarters, etc. under various forest divisions	i) Checkpost – 10 nos at Rs 2.5 lakh ii) Const. of Staff Qtrs – 2 nos at Rs 25 lakh iii) Maintenance of qtrs, checkpost etc.	80.00	5(3)(d) & (e)
5	Engagement of local casual staff/labours to assist regular staff of State Forest Department in various works for protection of forests and wildlife including anti-poaching squad <i>(including liabilities of APO 2022-23).</i>	44 nos.	120.40	5(3)(f)
6	Independent and third-party monitoring & evaluation of various forestry works.	LS	15.00	5(3)(h)
7	Capacity building, Publicity cum awareness and extension activities related to forest and wildlife conservation.	LS	40.00	5(3)(i)
		<b>Total :</b>	<b>381.40</b>	
		<b>Total of NPV :</b>	<b>1566.60</b>	

**NPV**

**1 (B) (ii) Revised Proposal under NPV Fund : NPV (B) – Permissible activities under 20% of NPV**

<b>S. No</b>	<b>Item of works</b>	<b>Physical target</b>	<b>Rate (in Rs.)</b>	<b>Financial Target (Rs. in lakh)</b>	<b>Justification</b>
1	Improvement/upgradation of existing forest nurseries with signboards, inspection paths, repair of fencing, weeding, etc.	All forest divisions	LS	20.00	Nurseries are the backbone of plantation. Good nursery is an essential pre-requisite for successful plantation. So, experiment of existing nurseries is excited for carrying out successful CA plantations as well as other plantation. Works will include improvement of water supply, nursery beds, inspection paths, procurement of tools, weeding, repair of fencing, etc.
2	Purchase/maintenance of communication devices viz. cell phones, computers, etc. used for monitoring and protection of forests.	LS	LS	10.00	Due to remote and difficult hilly terrain of Mizoram, the communication with forest field staff in various forest divisions and ranges is a challenging job. Thus, procurement of communication devices viz. cell phones, computers, etc. is proposed.
3	Purchase of vehicles	8 nos. purchase	@ Rs. 12 lakh/no.	96.00	The existing departmental vehicles are quite old and not fit for field visits in hilly terrain. Moreover, the hiring of vehicle in remote hilly areas is not economical therefore, purchase of 10 vehicles may kindly be considered for smooth performance of field works.
4	Construction/repair of check posts, frontline staff quarters, etc. under various forest divisions	i) Checkpost – 10 nos ii) Const. of Staff Qtrs – 2nos iii) Maint. of qtrs., check post etc.	i) Rs 2.5 lakh/no ii) Rs 25 lakh/no iii) LS	80.00	Most of the forest quarters, check posts, etc. are quite old and in deplorable condition thus, construction/renovation is required.
5	Engagement of local casual staff/labours to assist regular staff of State Forest Department in various works for protection of forests and wildlife including anti-poaching squad (including liabilities of APO 2022-23)	44	11400/-	120.40	Due to acute shortage of regular forest staff, the functioning of nodal office as well as field offices has become quite challenging. Thus, casual engagement of local people in the nodal office as well as division offices to assist regular staff of forest department for smooth functioning and effective execution of works in protection of forest, wildlife and CAMPA activities is indispensable.

6	Independent and third-party monitoring & evaluation of various forestry works.	LS	As per bid amount	15.00	Independent third party monitoring and evaluation is required to ensure implementation of approved works up to satisfactory level.
7	Capacity building, Publicity cum awareness and extension activities related to forest and wildlife conservation.	LS	LS	40.00	For extension activities such as organizing awareness campaign, workshop and seminars, quiz, essay writing, painting competition for students, displaying banners, hoarding on bio-diversity conservation, environment protection, publication of books, pamphlets, reports on forest wildlife conservation and other related issues. Documentation of biological diversity. (Faunal & floral)
			<b>Total :</b>	<b>381.40</b>	

## **2. ABSTRACT OF COST OF INTEREST**

### ***(A) - Permissible activities for not less than 60% of INTEREST***

<b>S.No.</b>	<b>Item of Works</b>	<b>Physical target</b>	<b>Financial target (in Rs)</b>	<b>Relevant CAF Rule (s)</b>
1.	To offset the incremental cost of CA at the increased wage rate	23.69	1,62,040.00	6(a)(i)
2	Disbursement of wages/allowances to contractual staff engaged to assist State CAMPA	24	48,00,000.00	6(a)(iv)
		<b>TOTAL</b>	<b>49,62,040.00</b>	

### ***(B) - Permissible activities for not more than 40% of INTEREST***

<b>S.No.</b>	<b>Item of Works</b>	<b>Physical target</b>	<b>Financial target (in Rs)</b>	<b>Relevant CAF Rule (s)</b>
1	Management of office establishment	1	5,00,000.00	6(b)(i)
2	Office equipment viz. conveyance for monitoring teams, computers, etc.	LS	20,00,000.00	6(b)(ii) & (iii)
		<b>TOTAL</b>	<b>25,00,000.00</b>	

**Total (Interest component) : 74,62,040.00**

**INTEREST**

**2. A. Permissible activities for not less than 60%**

S.No	Item of works	Physical target	Rate (in Rs.)	Financial Target(in Rs.)	Justification
1.	To offset the incremental cost of CA at the increased wage rate	23.69	-	1,62,040.00	As permissible in the CAF Rules, 2018; the incremental cost for Compensatory Afforestation is proposed.
2	Disbursement of wages/allowances to contractual staff engaged to assist State CAMPA	24	Skilled I @ Rs.19600/pm Skilled II @ Rs.15,600/pm Unskilled @ Rs.11,400/pm <b>TOTAL</b>	48,00,000.00 <b>49,62,040.00</b>	Due to acute shortage of regular staff (Technical & Ministerial) in the EF&CC department, local contractual /casual staff have been engaged for smooth functioning of State CAMPA Authority in accordance with provision under Rule 6(a)(iv).

**INTEREST**

**2. B. Permissible activities for not more than 40%**

S.No	Item of works	Physical target	Rate (in Rs.)	Financial Target (in Rs.)	Justification
1	Management of office establishment	1	LS	5,00,000.00	For various office expenses viz. expenditure on telephone, electricity, POL, stationaries, POL, etc.
2	Office equipment viz. conveyance for monitoring teams, computers, etc.	LS	LS	20,00,000.00	For maintenance of computers, Xerox machine, printers, conveyance for monitoring teams, etc.
	<b>TOTAL</b>		<b>TOTAL</b>	<b>25,00,000.00</b>	

**Total (under interest) : 74,62,040.00**

**(Rupees seventy four lakh sixty two thousand and forty only)**

**GOVERNMENT OF MIZORAM  
LABOUR, EMPLOYMENT, SKILL DEV. & ENTREPRENEURSHIP DEPTT.  
MIZORAM SECRETARIAT, AIZAWL - 796001**

**NOTIFICATION**

Dated Aizawl, the 18<sup>th</sup> February, 2019.

**No.B.14015/4/2010-LESDE/268:** In exercise of the powers conferred under Section 3 read with Section 13 of the Minimum Wages Act, (1948 No. XI of 1948), the Governor of Mizoram is pleased to revise the minimum rates of wages for the workers employed in the Scheduled Employment of "Casual/Muster Roll Employees" under the Government Departments, Semi-Government Organisation, Public Undertakings and on Contract Basis with effect from 1<sup>st</sup> October, 2018.

SCHEDULED EMPLOYMENT	CATEGORY OF WORKERS	MINIMUM RATES OF WAGES PER DAY
CASUAL/ MUSTER ROLL EMPLOYEES	UNSKILLED	Rs. 380/-
	SEMI-SKILLED	Rs. 420/-
	SKILLED -II	Rs. 520/-
	SKILLED -I	Rs. 640/-

The Minimum rates of wages already notified under other Scheduled Employments shall remain the same until further order.

This issues with the approval of the Council of Ministers in its meeting held on 12.02.2019 (No.J.11011/1/2019, dt. 14.02.2019) and the concurrence of Finance Department vide I.D. No.FIN (PRU) 104/2018, dt 15.01.2019.

**EXPLANATION FOR THE PURPOSE OF THIS NOTIFICATION**

1. **UN-SKILLED WORK:** means work which involves simple operation, little or no skill or experience in the job.
2. **SEMI-SKILLED:** means work which involves some degree of skill of competence acquired through experience on the job which is capable of being performed under the supervision and guidance of skilled employees and includes unskilled supervisory work.
3. **SKILLED-II (JUNIOR GRADE):** means work which involves skills or competence acquired through experience on jobs or through training as apprentice in a technical or vocational institute and the performance of which calls for initiative and judgment.
4. **SKILLED - I (SENIOR GRADE):** Means experience in the work requiring great skills.



5. **WORKING PERIOD:** The number of working hours per day will normally be 8 hours approximately for technical works and the number of working hours like clerical, peons etc per day will be as prescribed by the employers. Workers who are engaged in offices will follow the office hours of the Office/Department where they are employed.

6. **PAID HOLIDAYS:** Workers other than clerical, peon etc working in the office will enjoy the following paid holidays in addition to the Sunday benefit as enjoyed by the workers provided they work continuously for 6(six) days a week:-

a) New Year	:	1 <sup>st</sup> January
b) Missionary Day	:	11 <sup>th</sup> January
c) Republic Day	:	26 <sup>th</sup> January
d) Chapchar kut	:	on the day it falls
e) Good Friday	:	on the day it falls
f) May day	:	1 <sup>st</sup> May
g) YMA Day	:	15 <sup>th</sup> June
h) Remna ni	:	30 <sup>th</sup> June
i) Independence Day	:	15 <sup>th</sup> August
j) Mahatma Gandhi Birthday	:	2 <sup>nd</sup> October
k) Christmas Day	:	25 <sup>th</sup> December.

7. Women and disabled workers will enjoy the same rates payable to the male and abled workers.

8. Where the existing rates of wages of any employee based on contract or agreement or otherwise are higher than the rate notified herein, the higher shall be treated as the minimum rate of wages applicable for the purpose of this notification to such employee.


9. This shall be applicable to all Governments Departments, Semi-Government Organisations and all Public Undertakings within the State of Mizoram.

Sd/-ZOTHAN KHUMA  
Commissioner & Secretary to the Govt. of Mizoram  
Labour, Employment, Skill Dev. & Entrepreneurship Deptt.

Memo No.B.14015/4/2010-LESDE/268  
Copy to:-

: Dated Aizawl, the 18<sup>th</sup> February, 2019.

1. Secretary to Governor, Mizoram.
2. P.S. to Chief Minister, Govt. of Mizoram.
3. P.S. to Speaker/Deputy Speaker, Govt. of Mizoram.
4. P.S. to Minister, Labour, Employment, Skill Development & Entrepreneurship Department.
5. P.S. to all Ministers/Ministers of State, Govt. of Mizoram.
6. Sr. PPS to Chief Secretary, Government of Mizoram.
7. The Secretary, Govt. of India, Ministry of Labour & Employment, New Delhi with 5 (five) spare copies.
8. All Administrative Departments, Government of Mizoram.
9. All Heads of Department, Government of Mizoram. They are requested to circulate to all their subordinate offices.
10. All Deputy Commissioners, Government of Mizoram. They are requested to circulate to all offices under them.
11. Controller, Printing & Stationery Department, Government of Mizoram with 6 (six) Spare copies for publication in the Mizoram Gazette.
12. Chief Engineer (P) Pushpak C/O 99 APO.
13. President, Joint Contractors Association, Mizoram.
14. Director General, Border Roads, Bombay Road, Kashmiri House, D.H.O, New Delhi.
15. Director, Information & Public Relation Department Mizoram.
16. President, National trade Union of Mizoram (NTUM).
17. President, Federation of Mizoram Trade Union (FOMTU).
18. President, Centre of India Trade Union, Mizoram (CITUM).
19. President, Mizoram labour Trade Union (MLU).
20. The District Labour & Employment Officer, LESD&ED, Aizawl, Lunglei, Siaha and Champhai.
21. Guard File.



( H.MALSAWMI )

Under Secretary to the Govt. of Mizoram,  
Labour, Employment, Skill Dev. & Entrepreneurship Deptt.  
\* Phone No : 0389 - 2336647



# **Report on Monitoring & Evaluation of CAMPA Works Implemented by the Department of EF&CC Government of Mizoram**

**Under CAMPA APO (2018-2019, 2019-2020 & 2020-2021)**



**Monitoring Agency:  
The Association for Environmental Preservation (ASEP)  
General Headquarters, Aizawl, Mizoram  
Registration number – SR/MZ – 54 of 2005-06**

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**REPORT ON MONITORING AND EVALUATION OF CAMPA WORKS  
IMPLEMENTED BY THE DEPARTMENT OF EF&CC,  
GOVERNMENT OF MIZORAM  
UNDER CAMPA APO (2018-2019, 2019-2020 & 2020-2021)**

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**I. INTRODUCTION:**

With a cover of 23% of Geographical area of the country, forest in India comprise of a number of diverse forest types and reserved areas designated as National Parks and Wildlife Sanctuaries. In India, forest meet the livelihood needs of people living in and adjoining the forests in about 1, 73,000 villages. Forests also act as carbon sinks and regulators of water regime.

Many development and industrial projects such as erection of dams, mining, and construction of industries or roads require diversion of forest land. Any project proponent, government or private must apply for forest clearance from Ministry of Environment, Forests & Climate Change (MoEFCC), before the conversion of land take place. This proposal is to be submitted through the concerned forest department of the state government. If clearance is given, then compensation for the lost forest land is also to be decided by the ministry and the regulators.

Due to certain discrepancies in the implementation of compensatory afforestation, some NGOs had approached The Hon'ble Supreme Court for relief. The Hon'ble Supreme Court on 10th July 2009 Issued orders that there will be a Compensatory Afforestation Fund Management and Planning Authority (CAMPA) as National Advisory Council under the chairmanship of the Union Minister of Environment, Forests & Climate Change for monitoring, technical assistance and evaluation of compensatory afforestation activities.

**II. OBJECTIVES OF CAMPA:**

Compensatory Afforestation Fund Management and Planning Authority (CAMPA) are meant to promote afforestation and regeneration activities as a way of compensating for forest land diverted to non-forest uses. National CAMPA Advisory Council has been established as per orders of The Hon'ble Supreme Court with the following mandate:

- (1) Lay down broad guidelines for State CAMPA.
- (2) Facilitate scientific, technological and other assistance that may be required by State CAMPA.
- (3) Make recommendations to State CAMPA based on a review of their plans and programmes.
- (4) Provide a mechanism to State CAMPA to resolve issues of an inter-state or Centre-State character.

### III. STATE CAMPA MONITORING:

The Environment, Forests & Climate Change Department, Government of Mizoram has appointed the Association for Environmental Preservation (ASEP) to undertake monitoring and evaluation of various works implemented by the Department under CAMPA APO for the year 2018-2019, 2019-2020 and 2020-2021. The Monitoring and Evaluation has to be executed as per MoU/ToR covering 10 Territorial Forest Divisions, 3 Wildlife Divisions and 3 Autonomous District Councils covering all plantations with 10% random sapling for evaluation. Thus, the M&E has encompassed some nurseries and plantations such as Compensatory Afforestation (CA), Catchment Area Treatment Plan (CATP), Net Present Value (NPV) ANR plantation and so on.

### IV. OBJECTIVES OF MONITORING AND EVALUATION:

- (i) To make the physical assessment of works done, to judge the quality and standard attained.
- (ii) To study the limitations and deficiencies in the implementation with a view to suggesting modifications in techniques and financial provisions.
- (iii) The ultimate objective is to ensure maximum efficiency in the implementation and safeguard against infructuous expenditure and take timely and remedial measures wherever necessary.



## V. LISTS OF PROJECTS/WORKS MONITORED:

### (1) Darlawn Forest Division

Sl.No	Name of Project	Work Description	Area	Year
1	Tulval Hydel Project	5 <sup>th</sup> Year maintenance	32.57 ha	2018-19
2	BG Railway line between Bairabi to Sairang	3 <sup>rd</sup> Year maintenance	27.933 ha	2018-19
3	Tuirial HEP	3 <sup>rd</sup> Year maintenance	591 ha	2018-19
4	Tuirial HEP	Creation	346.5 ha	2018-19
5	Tuirial HEP	Advance work	1462.5 ha	2018-19
6	BG Railway line between Bairabi to Sairang	2 <sup>nd</sup> Year maintenance	46.555 ha	2018-19
7	NH-44 A (Lengpui – Langkaih)	2 <sup>nd</sup> Year maintenance	56.633 ha	2018-19
8	Improvement of Chhumkhum to Chawngte Road	2 <sup>nd</sup> Year maintenance	3.85 ha	2018-19
9	MSRP –II (Gr-I) Tlabung – Kawrpuichhuah	Creation	4.98 ha	2018-19
10	Tuirial HEP (CATP)	1 <sup>st</sup> Year maintenance	300 ha	2018-19
11	Tuirial HEP (CATP)	3 <sup>rd</sup> Year maintenance	323 ha	2018-19
12	Tuirial HEP (CATP)	Advance work	300 ha	2018-19
13	Tuirial HEP	4 <sup>th</sup> Year maintenance	591 ha	2019-20
14	Tuirial HEP	1 <sup>st</sup> Year maintenance	346.5 ha	2019-20
15	BG Railway line between Bairabi to Sairang	4 <sup>th</sup> Year maintenance	27.933 ha	2019-20
16	BG Railway line between Bairabi to Sairang	3 <sup>rd</sup> Year maintenance	46.555 ha	2019-20
17	NH-44 A (Lengpui – Langkaih)	3 <sup>rd</sup> Year maintenance	56.633 ha	2019-20
18	Improvement of Chhumkhum to Chawngte Road	3 <sup>rd</sup> Year maintenance	3.85 ha	2019-20
19	MSRP –II (Gr-I) Tlabung – Kawrpuichhuah	1 <sup>st</sup> Year maintenance	4.98 ha	2019-20
20	Tuirial HEP (CATP)	2 <sup>nd</sup> Year maintenance	300 ha	2019-20
21	Tuirial HEP (CATP)	4 <sup>th</sup> Year maintenance	323 ha	2019-20
22	Tuirial HEP	Creation	432.5 ha	2020-21
23	Tuirial HEP	5 <sup>th</sup> Year maintenance	591 ha	2020-21
24	Tuirial HEP	2 <sup>nd</sup> Year maintenance	346.5 ha	2020-21
25	BG Railway line between Bairabi to Sairang	5 <sup>th</sup> Year maintenance	27.933 ha	2020-21
26	BG Railway line between Bairabi to Sairang	4 <sup>th</sup> Year maintenance	46.555 ha	2020-21
27	NH-44 A (Lengpui – Langkaih)	4 <sup>th</sup> Year maintenance	56.633 ha	2020-21
28	NH-150 Zemabawk to E. Phaileng	Advance Work	23.69	2020-21
29	Improvement of Chhumkhum to Chawngte Road	4 <sup>th</sup> Year maintenance	3.85 ha	2020-21
30	IBB Fencing inside DTR	Advance Work	717 ha	2020-21
31	MSRP –II (Gr-I) Tlabung – Kawrpuichhuah	2 <sup>nd</sup> Year maintenance	4.98 ha	2020-21
32	Widening of NH-54	Advance work	12.09 ha	2020-21
33	Tuirial HEP (CATP)	3 <sup>rd</sup> Year maintenance	300 ha	2020-21
34	Tuirial HEP (CATP)	5 <sup>th</sup> Year maintenance	323 ha	2020-21

**(2) Kolasib Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Serlui 'B' Hydel Project	5 <sup>th</sup> Year maintenance	632 ha	2018-19
2	400 KV Transmission Line (Silchar to Sakawrtuichhun )	2 <sup>nd</sup> Year maintenance	768.062 ha	2018-19
3	400 KV Transmission Line (Dwarf Plantation )	4 <sup>th</sup> Year maintenance	8.5ha	2018-19
4	400 KV Transmission Line (Dwarf Plantation )	3 <sup>rd</sup> Year maintenance	21.5 ha	2018-19
5	Tuirial HEP (CATP)	1 <sup>st</sup> Year maintenance	300 ha	2018-19
6	Tuirial HEP (CATP)	3 <sup>rd</sup> Year maintenance	350 ha	2018-19
7	Tuirial HEP (CATP)	Advance work	300 ha	2018-19
8	400 KV Transmission line	3 <sup>rd</sup> Year maintenance	768.062 ha	2019-20
9	Tuirial HEP (CATP)	2 <sup>nd</sup> yr maintenance	300 ha	2019-20
10	Tuirial HEP (CATP)	4 <sup>th</sup> year maintenance	350 ha	2019-20
11	400 KV Transmission Line (Dwarf Plantation )	5 <sup>th</sup> yr maintenance	8.5ha	2019-20
12	400 KV Transmission Line (Dwarf Plantation )	4 <sup>th</sup> Year maintenance	21.5 ha	2019-20
13	400 KV Transmission line	4 <sup>th</sup> Year maintenance	768.062 ha	2020-21
14	Tuirial HEP (CATP)	5 <sup>th</sup> yr maintenance	350 ha	2020-21
15	Tuirial HEP (CATP)	3 <sup>rd</sup> yr maintenance	300 ha	2020-21
16	Tuirial HEP (CATP)	Creation	300 ha	2020-21
17	400 KV Transmission Line (Dwarf Plantation )	6 <sup>th</sup> Year maintenance	8.5ha	2020-21
18	400 KV Transmission Line (Dwarf Plantation )	5 <sup>th</sup> yr maintenance	21.5 ha	2020-21

**(3) Aizawl Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Champhai – Hnahlan – Khuangphah road	5 <sup>th</sup> Year maintenance	110.195 ha	2018-19
2	20 MW HFO Thermal Power Plant	5 <sup>th</sup> Year maintenance	3.57 ha	2018-19
3	Petrol Pump at Sairang	5 <sup>th</sup> Year maintenance	0.36 ha	2018-19
4	Tuirial HEP (CATP)	1 <sup>st</sup> Year maintenance	150 ha	2018-19
5	Tuirial HEP (CATP)	3 <sup>rd</sup> Year maintenance	400 ha	2018-19
6	Tuirial HEP (CATP)	Advance work	200 ha	2018-19
7	Tuirial HEP (CATP)	2 <sup>nd</sup> Year maintenance	150 ha	2019-20
8	Tuirial HEP (CATP)	4 <sup>th</sup> Year maintenance	400 ha	2019-20
9	Aided Natural Re-Generation (NPV)	Advance Work	60	2020-21
10	Tuirial HEP (CATP)	3 <sup>rd</sup> Year maintenance	150 ha	2020-21
11	Tuirial HEP (CATP)	5 <sup>th</sup> Year maintenance	400 ha	2020-21
12	Tuirial HEP (CATP)	Creation	248.871 ha	2020-21
13	Forest fire Prevention & Control (NPV)	Creation of fireline	8 km	2020-21
14	Nurseries (NPV)	1st year seedlings	2778	2020-21

**(4) Champhai Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Bridge over river Tulvawl	5 <sup>th</sup> Year maintenance	0.2817 ha	2018-19
2	Aided Natural Re-Generation (NPV)	Advance Work	40	2020-21
3	Forest fire Prevention & Control (NPV)	Creation of fireline	8 km	2020-21
4	Nurseries (NPV)	1st year seedlings	2778	2020-21

**(5) Lunglei Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Bridge over Kawrawng lui	Creation	0.2424 ha	2018-19
2	Bridge over Kawrawng lui	1 <sup>st</sup> Year maintenance	0.2424 ha	2019-20
3	Aided Natural Re-Generation (NPV)	Advance Work	60 ha	2020-21
4	Bridge over Kawrawng lui	2 <sup>nd</sup> Year maintenance	0.2424 ha	2020-21
5	Forest fire Prevention & Control (NPV)	Creation of fireline	20 km	2020-21
6	Nurseries (NPV)	1st year seedlings	11667	2020-21

**(6) Thenzawl Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Improvement & Widening of Serchhip – Buarpui Road	3 <sup>rd</sup> Year maintenance	2 ha	2018-19
2	Improvement & Widening of Serchhip – Buarpui Road	4 <sup>th</sup> Year maintenance	2 ha	2019-20
3	Improvement & Widening of Serchhip – Buarpui Road	5 <sup>th</sup> Year maintenance	2 ha	2019-20
4	Aided Natural Re-Generation (NPV)	Advance Work	40 ha	2020-21
5	Forest fire Prevention & Control (NPV)	Creation of fireline	8 km	2020-21
6	Nurseries (NPV)	1st year seedlings	2778	2020-21

**(7) Kawrthah Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	50 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	15 km	2020-21
3	Nurseries (NPV)	1st year seedlings	9444	2020-21

**(8) Mamit Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	60 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	20 km	2020-21
3	Nurseries (NPV)	1st year seedlings	11667	2020-21

**(9) Tlabung Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	45 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	15 km	2020-21
3	Nurseries (NPV)	1st year seedlings	9444	2020-21

**(10) North Vanlaphai Forest Division**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	45 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	15 km	2020-21
3	Nurseries (NPV)	1st year seedlings	9444	2020-21

**(11) DCF (WL), Aizawl**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	15 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	22 km	2020-21

**(12) DCF (WL), Khawzawl**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	15 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	22 km	2020-21
3	Nurseries (NPV)	1st year seedlings	12222	2020-21

**(13) DCF (WL), Lawngtlai**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	10 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	18 km	2020-21

**(14) MADC**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	20 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	10 km	2020-21

**(15) LADC**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	20 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	10 km	2020-21

**(16) CADC**

Sl.No	Name of Project	Work Description	Area	Year
1	Aided Natural Re-Generation (NPV)	Advance Work	20 ha	2020-21
2	Forest fire Prevention & Control (NPV)	Creation of fireline	10 km	2020-21

**VI. FIELD OBSERVATIONS:**

All records such as Plantation journals, Treatment map, Plantation register, Cash book, etc. have been examined during the course of monitoring and evaluation. Discussions and interactions have been held with the Territorial DFOs and staffs, leaders of partner organizations and Village councils. The detail reports of field observation are the following (in division wise):

**AIZAWL FOREST DIVISION****1. COMPENSATORY AFFORESTATION (CA) PLANTATIONS:**

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
<b>Champhai – Hnahlan – Khuangphah road (110.195 ha)</b>							
1.	Maipawl ram  Maite  Saitual Range	110.195 ha.  2013-14	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Gomari</i> , etc.	-	-	23°29'30.31"N 92°58'45.37"E	It was saddening to make a negative comments when the plantation had a bad impression on encroachment issue. The plantation can not continue due to this reason after the year 2017.
<b>20 MW HFO Thermal Power Plant (3.57 ha.)</b>							
1.	Durtlang  Durtlang  Aizawl (Sadar) Range	3.57 ha.  2013-14	<i>Michelia champaca</i> , <i>Tectona grandis</i> , etc.	70%	5m	23°47'447"N 92°43'137"E	Last maintenance in 2018-19. Plantation In-charge continue to display new signboard during the time of visit.

Petrol Pump at Sairang (0.36 ha.)							
1.	Mel 11 luikam  Sairang  Sairang Range	0.36 ha.  2013-14	<i>Michelia champaca</i> , <i>Tectona grandis</i> , etc.	(-)  50%	3m	23°47'51.16"N  92°40'3.27"E	This plantation had a serious issue regarding encroachment of land with nearby one villager. It resulted in the low survival percentage and it could results the total failure of the plantation.
CATP - Tuirial HEP (400 ha.)							
1.	Beraw lui kam  Zemabawk  Aizawl (Sadar) Range	90 ha.  2014-15	<i>Michelia champaca</i> , <i>Toona ciliata</i> , <i>Bischofia javanica</i> , etc.	82%	3m	23°44'03.08"N  92°46'07.80"E	The overall activities of the staffs right from advance works to last maintenance is found satisfactory and appreciated their performances. Plantation signboard is erected and journal is maintained properly.
2.	Sakawrhmutual  Sihphir  Aizawl (Sadar) Range	60 ha.  2014-15	<i>Michelia champaca</i> , <i>Terminalia myriocarpa</i> , <i>Toona ciliata</i> , etc.	81%	3.5m	23°51'41.84"N  92°44'26.57"E	Plantation signboard is erected and maintained plantation journal properly. Plantation is well maintained.
3.	Phulraw pang  Maubuang  Aibawk Range	100 ha.  2014-15	<i>Michelia champaca</i> , <i>Toona ciliata</i> , <i>Bischofia javanica</i> , etc.	80%	2.5m	23°30'56"N  92°42'56"E	This plantation is far from the main road about 2 kms. The site is good natural vegetation, protection is most important. Signboard is damaged. Journal is properly maintained.
4.	Tungur ram  Sesawng  Seling Range	150 ha.  2014-15	<i>Michelia champaca</i> , <i>Toona ciliata</i> , <i>Bischofia javanica</i> , etc.	80%	3m	23°48'11"N  92°48'48"E	The plantation site is too far from the main road and so, this is the main problem to maintain the plantation area. Journal is maintained properly.

CATP - Tuirial HEP (150 ha.)							
1.	Phulraw pang  Maubuang  Aibawk Range	150 ha.  2017-18	<i>Michelia champaca</i> , <i>Duabanga</i> , <i>Bischofia javanica</i> , <i>Embllica officinalis</i> , etc.	80%	3m	23°30'01"N  92°42'57"E	This plantation is far from the main road about 2 kms. The site is good natural vegetation, protection is most important. Signboard is erected and Journal is properly maintained.
CATP - Tuirial HEP (200 ha.)							
1.	Bemual  Sateek  Aibawk Range	50 ha.  2019-20	<i>Michelia champaca</i> , <i>Toona cilkata</i> , <i>Bischofia javanica</i> , etc.	85%	1m	23°32'54.11"N  92°42'37.52"E	The area was covered with very old dense evergreen. Any available trees species was planted on the blank areas. The overall condition of the vegetations within this plot is quite satisfactory. Signboard is erected and maintained journal properly.
2.	Far tlang  Hlimen  Aizawl (Sadar) Range	100 ha.  2019-20	<i>Toona cilkata</i> , <i>Bischofia javanica</i> , <i>Embllica officinalis</i> , <i>Ligustrum robustum</i> , etc.	90%	1m	23°39'54"N  92°43'14"E	The area was mixed vegetation of trees, tall grass and bamboos. Planting was done after clearing tall grass. Signboard is erected and maintained journal properly. Prevention from fire is the most important for the success of the plantation.
3.	Blak in tlang hnuai  Hmawngkawn  Selling Range	50 ha.  2019-20	<i>Michelia champaca</i> , <i>Terminalia myriocarpa</i> , <i>Bischofia javanica</i> , <i>Ligustrum robustum</i> , etc.	82%	1m	23°29'59.95"N  92°49'17.15"E	The area was covered with dense forest. Any available trees species was planted on the blank areas. Signboard is erected and maintained journal properly.

2. NET PRESENT VALUE (NPV) ANR PLANTATIONS (60 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Chuhvel ram Tachhip Aibawk Range	15 ha. 2020-21	<i>Ligustrum robustum</i> , <i>Lagerstroemia speciosa</i> , <i>etc.</i>	80%	2 ft	23°33'58.46"N 93°41'58.68"E	The whole area is covered by bamboos and a few trees. Seedlings was planted in the gap. Prevention of fire is needed for the success of the plantation. Signboard is erected and maintained journal properly.
2.	Ruanzawl ramhnai Hmawngkawn Seing Range	15 ha. 2020-21	<i>Michelia champaca</i> , <i>Terminalia myriocarpa</i> , <i>Bischofia javanica</i> , <i>Ligustrum robustum</i> , <i>etc.</i>	81%	2 ft	23°29'32.68"N 93°49'25.60"E	Plantation site is good natural vegetation. Coordination with the Village community is excellent. Signboard is erected and maintained journal properly.
3.	Mualkhang ram Mualkhang Sairang Range	15 ha. 2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Mesua ferrea</i> , <i>Artocarpus chama</i> , <i>Syzygium cumini</i> , <i>etc.</i>	80%	1.5 ft	23°52'48"N 92°40'45"E	The large part of the area is covered by tall grass. Proper maintenance is needed for the success of the plantation. Signboard is erected and maintained journal properly.
4.	Tuilak hnar Dilkhan Saitual Range	15 ha. 2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Ligustrum robustum</i> , <i>etc.</i>	82%	1.5 ft	23°46'43.47"N 93°57'10.47"E	Plantation site is good natural vegetation. Conservation of the natural vegetation was the most important. Seedlings was planted in the gap. Signboard is erected and maintained journal properly.



3. NET PRESENT VALUE (NPV) NURSERY:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Tuirial Central Nursery  Aizawl Sadar Range	3000	<i>Bischofia javanica</i> , <i>Michella cham-paca</i> , <i>Duabanga grandiflora</i> , <i>Toona ciliata</i> , <i>Parkia timoriana</i> ,  <i>Artocarpus heterophyllus</i> , <i>Mangifera indica</i> , <i>etc.</i>	Nursery under Aizawl Division is well maintained. Nursery have good water tank, water distribution point and nursery hut. Nursery is covered with shade nets. Nursery beds are made with cemented beds with brick-wall side support and polypots are used so as to increase and improve the quality, germination and health of the seedlings. Ample care is taken to improve the quality and health of the seedlings.

## KOLASIB FOREST DIVISION

### 1. COMPENSATORY AFFORESTATION (CA) PLANTATIONS:

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
<b>CA - Serlui 'B' Hydel Project (632 ha)</b>							
1.	Thohuang ram Bukpui Bukpul Range	210 ha. 2013-14	<i>Michelia champaca</i> , <i>Tectona grandis</i> , etc.	70-80%	10 mts.	24°09'27" N 92°44'52.2"E	Last maintenance in 2018-19. Successful plantation.
2.	Mausin ram Saipum Saipum Range	212 ha. 2013-14	<i>Michelia champaca</i> , <i>Artocarpus chaplasa</i>	70-80%	10 mts.	24°11'4.72"N 92°44'39.7"E	Last maintenance in 2018-19. Successful plantation.
3.	Thohuang ram N. Hlimen N. Hlimen Range	210 ha. 2013-14	<i>Michelia champaca</i> , <i>Tectona grandis</i> , etc.	70-80%	10 mts.	24°09'27" N 92°44'52.02"E	Last maintenance in 2018-19. Successful plantation.
<b>CA - 400 KV Transmission Line - Silchar to Sakawrtuichhun (768.062 ha)</b>							
1.	Phulrawlian kawn Bukpui Bukpul Range	200 ha. 2014-15	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , etc.	75-80%	6 m	24°6'12.094"N 92°46'22.279"E	Signboard erected and maintained plantation journal properly. Overall condition is found satisfactory.
2.	Chemlui kam Kolasib Kolasib Range	190 ha. 2014-15	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , etc.	75-80%	4-5 m	24°13'37.4"N 92°43'26.5"E	Plantation is properly maintained. Prevention of fire is necessary for the betterment and success of the plantation.
3.	Arkhuangle ram Kawnpui Kawnpul Range	180.062 ha. 2014-15	<i>Michelia champaca</i> , <i>Parkia tamaritana</i> , etc.	75-80%	4-5 m	24°57'41.6"N 92°37'47.6"E	Signboard is erected and maintained journal properly. Prevention of fire is necessary for the success of the plantation.
4.	Tlangpuilian Phaisen Buhchang Range	198 ha 2014-15	<i>Tectona grandis</i> , <i>Michelia champaca</i> , <i>Gomar</i> , etc.	75-80%	5m	24°24'59.3"N 92°40'46.8"E	Signboard is erected and maintained journal properly. The area is previously covered by thatches, brooms, trees and bamboos. It will become a successful plantation.

CA - 400 KV Transmission Line - Dwarf Plantation (8.5 ha.)							
1.	Eldorado chhuah lam Vairengte Vairengte Range	2 ha. 2014-15	<i>Oroxylum indicum</i> , <i>Embilica officinalis</i>	(-) 50%	2m	24°23'43" N 92°43'30"E	Signboard damaged. Protection is much necessary due to encroachment.
2.	N. Chhimluang Kharzawl Bilkhawthlir Range	2 ha. 2014-15	<i>Michelia champaca</i>	(-) 50%	3m	24°23'26" N 92°43'16"E	Since the area is private land, the owner also planted areca palm in this area. Signboard is not erected, plantation journal is properly maintained.
3.	Chhungbawnga camp luikam Kolasib Kolasib Range	2 ha. 2014-15	<i>Bischofia javanica</i> , etc.	60- 70%	2m	24°17'15.9" N 92°42'03.5"E	Proper maintain is much necessary for this plantation.
4.	Thingdawl luikam Kawnpui Kawnpui Range	2.5 ha. 2014-15	<i>Costus speciosus</i> , <i>Oroxylum indicum</i>	75- 80%	1.5m	24°49'06.3" N 92°40'42.5"E	The survival of <i>Costus speciosus</i> is good but <i>Oroxylum indicum</i> is very low. Signboard is erected and maintained journal properly.
CA - 400 KV Transmission Line (Dwarf Plantation ) 21.5 ha.							
1.	Chhungbawnga camp luikam Kolasib Kolasib Range	6 ha. 2015-16	<i>Bischofia javanica</i> , <i>Oroxylum indicum</i> , etc.	75- 80%	1.5m	24°17'15.9" N 92°42'03.5"E	Proper maintain is much necessary for this plantation.
2.	Thingdawl luikam Kawnpui Kawnpui Range	7.5 ha. 2015-16	<i>Costus speciosus</i> , <i>Oroxylum indicum</i>	70 - 80%	1.5m	24°49'14.3" N 92°40'59.8"E	The survival of <i>Costus speciosus</i> is good but is <i>Oroxylum indicum</i> very low. Signboard is erected and maintained journal properly.
3.	N. Chhimluang Kharzawl Bilkhawthlir Range	4 ha. 2015-16	<i>Michelia champaca</i>	(-) 50%	3m	24°23'30" N 92°43'26"E	Since the area is private land, the owner also planted areca palm in this area. Signboard is not erected, plantation journal is properly maintained.
4.	N. Chhimluang dai Vairengte Vairengte Range	4 ha. 2015-16	<i>Oroxylum indicum</i> , <i>Embilica officinalis</i>	(-) 50%	2m	24°23'47" N 92°43'10"E	Signboard damaged. Protection is much necessary due to encroachment.

CATP - Tuirial HEP (350 ha.)							
1.	Rohai ram Bukpui Bukpui Range	116 ha. 2014-15	<i>Michelia champaca, Tectona grandis, etc.</i>	75 - 80%	3.5m	24°5'22.287"N 92°50'6.73"E	Plantation is properly maintained. Prevention of fire during the fire season is necessary for the betterment and success of the plantation. Signboard is not erected.
2.	Theichangbung tlang N. Hlimen N. Hlimen Range	116 ha. 2014-15	<i>Tectona grandis, Go- mari, etc.</i>	75 - 80%	4m	24°16'55.9"N 92°50'53.6"E	Plantation is properly maintained. Signboard is erected and maintained journal properly.
3.	Suarhllap ram Saipum Saipum Range	118 ha. 2014-15	<i>Michelia champaca, Toona ciliata, etc.</i>	70 - 80%	3.5m	24°18'45"N 92°49'50"E	Not erected signboard. Proper maintenance is needed.
CATP - Tuirial HEP (300 ha.)							
1.	Uikaih lui Bukpui Bukpui Range	130 ha. 2016-17	<i>Michelia champaca, Bischofia javanica</i>	75 - 80%	3.5m	24°05'19.0"N 92°50'09.0"E	Plantation is properly maintained. Prevention of fire during the fire season is necessary for the betterment and success of the plantation. Signboard is erected and maintained journal properly.
2.	Theichangbung tlang N. Hlimen N. Hlimen Range	85 ha. 2016-17	<i>Tectona grandis, Go- mari, etc.</i>	75 - 80%	4m	24°16'47.64"N 92°50'52.29"E	Plantation is properly maintained. Signboard is erected and maintained journal properly.
3.	Suarhllap ram Saipum Saipum Range	85 ha. 2016-17	<i>Michelia champaca, Toona ciliata, etc.</i>	70 - 80%	2.5m	24°18'3.00"N 92°49'45.01"E	Not erected signboard. Proper maintenance is needed.
CATP - Tuirial HEP (300 ha.)							
1.	Sakhisih ram Bukpui Bukpui Range	100 ha. 2019-20	<i>Toona ciliata, Bischofia javanica</i>	78 -85%	1m	24°5'45.00"N 92°50'30.00"E	Protection of the natural vegetation is important. Signboard is erected and maintained journal properly.

2.	Theichangbung tiang N. Hlimen N. Hlimen Range	100 ha. 2019-20	<i>Michelia champaca, Bischofia ja- vanica, etc.</i>	82%	1m	24°17'54.63"N 92°51'4.284"E	Good natural veg- etation. Signboard is erected and maintained journal properly.
3.	Uvai zau Saipum Saipum Range	100 ha. 2019-20	<i>Michelia champaca, Bischofia ja- vanica, etc.</i>	77 -84%	1m	24°24'43.68"N 92°51'32.60"E	Plantation is proper- ly maintained. The overall condition is found satisfactory. The plantation site is too far from the Range headquarters, it is difficult to visit.

## DARLAWN FOREST DIVISION

### 1. COMPENSATORY AFFORESTATION (CA) PLANTATIONS:

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/ Remarks
<b>Tuivai Hydel Project (32.57 ha.)</b>							
1.	Tuiriza/Chithar ram Suangpullawn Suangpullawn Range	32.57 ha. 2014-15	<i>Gomari, Bischofia javanica, etc.</i>	80%	5m	23°54'49.84"N 93°0'58.998"E	Plantation ended in 2019-20. ANR method of plantation is practised. This plantation had a bad issue regarding encroachment of land with nearby the village Zawngin.
<b>BG Railway line between Bairabi to Sairang (27.933 ha.)</b>							
1.	Lenhmui zawl N. Serzawl Darlawn Range	27.933 ha. 2014-15	<i>Tectona grandis</i>	81%	6m	23°58'17.4"N 92°51'28.5"E	The area was previously covered by grasses, thatching, bamboos, small shrubs, etc. Plantation journal is properly maintained.
<b>BG Railway line between Bairabi to Sairang (46.555 ha.)</b>							
1.	Lenhmui zawl N. Serzawl Darlawn Range	46.555 ha. 2015-16	<i>Tectona grandis</i>	80%	5m	23°58'17.4"N 92°51'28.5"E	The area was previously covered by grasses, thatching, bamboos, small shrubs, etc. Plantation journal is properly maintained.
<b>CA - Tuivai HEP (591 ha.)</b>							
1.	Phaitlang ram N. Serzawl Darlawn Range	200 ha. 2014-15	<i>Tectona grandis, Gomari, etc.</i>	80%	4.5m	23°59'21.08"N 92°50'26.76"E	Plantation ended in 2019-20. Plantation journal is properly maintained.
2.	Chhanchhuahna Darlawn Range	200 ha. 2014-15	<i>Tectona grandis, Gomari, etc.</i>	80%	6m	23°57'14.2"N 92°50'42.0"E	Plantation ended in 2019-20. Plantation is well maintained. No signboard erected. Journal is maintained.
3.	Talan mueal Hmunghak Khawruhlian Range	67 ha. 2014-15	<i>Tectona grandis,</i>	82%	4m	23°55'13"N 92°49'50"E	Plantation ended in 2019-20. ANR method of plantation is practised.
4.	Ngalzel Khanpul Khawruhlian Range	70 ha. 2014-15	<i>Tectona grandis</i>	80%	4m	23°53'33"N 92°51'41"E	Plantation ended in 2019-20. ANR method of plantation is practised.

5.	Phaitlang ram Ratu Ratu Range	28 ha. 2014-15	<i>Tectona grandis and Toona cilata</i>	81%	4.5m	24°7'43.766"N 92°52'55.238"E	Plantation ended in 2019-20. ANR method of plantation is practised.
6.	Chengkawl lui Suanglawn Zohmun Range	26 ha. 2014-15	<i>Tectona grandis</i>	80%	4m	24°17'59"N 92°56'53"E	Plantation ended in 2019-20. ANR method of plantation is practised.
<b>CA - Tuirial HEP (346.5 ha.)</b>							
1.	Chhanchhuahna ram tlak lam Darlawn Range	200 ha. 2017-18	<i>Tectona grandis, Gomari, etc.</i>	80%	3m	23°57'13.06"N 92°49'33.34"E	Plantation is well maintained. Journal is properly maintained.
2.	Phaitlang ram N. Serzawl Darlawn Range	100 ha. 2017-18	<i>Tectona grandis</i>	81%	3m	23°57'11.3"N 92°50'45.1"E	Plantation is well maintained. Journal is properly maintained.
3.	Ngaizel Khanpui Khawruhlian	46 ha. 2017-18	<i>Prunus cerasoides</i>	82%	3m	23°50'54.93"N 92°55'54.04"E	ANR method of plantation is practised. Journal is properly maintained.
<b>CA - Tuirial HEP (1462.5 ha)</b>							
1.	Chhanchhuahna Darlawn Range	432 ha. 2018-19	<i>Tectona grandis, Gomari, etc.</i>	80%	3m	23°58'16.56"N 92°51'9.52"E	ANR method of plantation is practised. Journal is properly maintained.
2.	N. Serzawl Darlawn Range	339.5 ha. 2018-19	<i>Tectona grandis, Gomari, etc.</i>	80%	3m	23°59'22.96"N 92°51'18.27"E	ANR method of plantation is practised. Journal is properly maintained.
3.	Talan muat Hmunghak Khawruhlian Range	80 ha. 2018-19	<i>Gomari, Bischofia javanica, etc.</i>	82%	3m	23°50'57.68"N 92°52'10.75"E	ANR method of plantation is practised. Journal is properly maintained.
4.	Buhban Khawruhlian Range	211.5 ha. 2018-19	<i>Gomari, Bischofia javanica, etc.</i>	80%	3m	23°48'39.32"N 92°58'9.04"E	ANR method of plantation is practised. Journal is properly maintained.
5.	Khanpui Khawruhlian Range	211.5 ha. 2018-19	<i>Gomari, Bischofia javanica, etc.</i>	81%	3m	23°51'35.42"N 92°58'0.97"E	ANR method of plantation is practised. Journal is properly maintained.
<b>NH-44 A (Lengpui – Langkai) 56.633 ha</b>							
1.	Kawipui chung New Vervek Ratu Range	56.633 ha. 2015-16	<i>Michella champaca</i>	80%	4m	24°12'15"N 92°59'30"E	Plantation is well maintained. Sign-board is erected and maintained journal properly.
<b>Improvement of Chhumkhum to Chawngte Road (3.85 ha.)</b>							
1.	Sasaw tlang Sawlung Darlawn Range	3.85 ha. 2015-16	<i>Tectona grandis</i>	81%	4m	23°16'29"N 92°53'35"E	ANR method of plantation is practised. Journal is properly maintained.

MSRP –II [Gr-I] Tlabung – Kawrpuichhuah [4.98 ha.]							
1.	Sasaw tiang Sawleng Darlawn	4.98 ha. 2018-19	<i>Michellia champaca, etc.</i>	80%	2m	23°58'58.5"N 92°57'34.69"E	ANR method of plantation is practised. Journal is properly maintained.
CATP - Tuirial HEP [323 ha.]							
1.	Kelzam tiang Darlawn Darlawn Range	73 ha. 2014-15	<i>Tectona grandis, etc.</i>	80%	4m	23°58'04.9"N 92°51'28.3"E	Plantation is well maintained. This plantation had a bad issue regarding encroachment of land with nearby the village.
2.	Mualkir Khawruhlian Khawruhlian Range	120 ha. 2014-15	<i>Tectona grandis, etc.</i>	81%	4m	23°51'28"N 92°51'41"E	Plantation is well maintained. Sign-board is erected and maintained journal properly.
3.	Buallawn Ratu Ratu Range	70 ha. 2014-15	<i>Tectona grandis, Gomari, etc.</i>	80%	4m	23°16'29"N 92°53'35"E	This plantation had a bad issue regarding encroachment of land with nearby the village.
CATP - Tuirial HEP [300 ha.]							
1.	Buallawn Ratu Range	150 ha. 2018-19	<i>Toona cilata, Bischofia javanica</i>	80%	2m	24°06'36"N 92°53'29"E	This plantation had a bad issue regarding encroachment of land with nearby the village.
2.	Suanglawn Zohmun Range	150 ha. 2018-19	<i>Toona cilata, Bischofia javanica</i>	81%	2m	24°18'17"N 92°56'40"E	Plantation is well maintained. Sign-board is erected and maintained journal properly.
CATP - Tuirial HEP [300 ha.]							
1.	Phaitlang ram Ratu Range	100 ha. 2016-17	<i>Tectona grandis, Gomari</i>	80%	3m	24°7'43.766"N 92°52'55.238"E	Plantation is well maintained and maintained journal properly.
2.	Chengkawl lui Paisang Zohmun Range	200 ha. 2016-17	<i>Tectona grandis, Gomari</i>	81%	3m	24°17'59"N 92°56'53"E	Plantation is well maintained and maintained journal properly.
NH-150 Zemabawk to E. Phaileng [23.69 ha.]							



1.	Mualkawi hla Damdial Ratu Range	23.69 ha. 2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , etc.	45 cm	85%	24°8'39.65"N 92°58'23.56"E	Plantation is well maintained. Sign-board is erected and maintained journal properly. Proper maintenance is needed.
<b>IBB Fencing inside DTR (717 ha.)</b>							
1.	Buhban Khawruhlian Range	126.7 ha. 2020-21	<i>Michelia champaca</i> , etc.	54 cm	86%	23°49'47.30"N 92°57'49.99"E	The overall condition of the plantation is found satisfactory. Signboard is erected and maintained journal properly.
2.	Khawhmun Hlang E. Phaileng Khawruhlian Range	31.02 ha. 2020-21	<i>Michelia champaca</i> , <i>Tectona grandis</i> , etc.	51 cm	90%	23°54'39.19"N 92°56'17.00"E	Plantation is well maintained. Needs prevention of fire during fire season. Journal is properly maintained.
3.	Thereng ngaw Hmunghak Khawruhlian Range	32.55 ha. 2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i>	54 cm	89%	23°51'33.35"N 92°53'9.45"E	Plantation is well maintained. Weeding and cleaning at the right time is needed. Journal is properly maintained.
4.	Hmawngkar ram Khanpui Khawruhlian Range	45.84 ha. 2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , etc.	50 cm	91%	23°50'10.60"N 92°54'1.12"E	Plantation is well maintained. Weeding and cleaning at the right time is needed. Journal is properly maintained.
5.	Mualkir ram Khawruhlian Range	158.05 ha. 2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , etc.	48 cm	92%	23°53'50.81"N 92°49'52.80"E	The overall condition of the plantation is found satisfactory. Signboard is erected and maintained journal properly.
6.	Hmarcha hmun Lailak Khawruhlian Range	127.53 ha. 2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , etc.	52 cm	92%	23°49'16.59"N 92°53'46.16"E	Plantation is well maintained. Weeding and cleaning at the right time is needed. Journal is properly maintained and signboard is erected.

7.	Khawhmun tlang Pehlawn Khawruhlian Range	31.64 ha. 2020-21	<i>Michelia champaca, Bischofia javanica.</i>	53 cm	93%	23°54'14.01"N 92°55'46.80"E	Plantation is well maintained. Weed- ing and cleaning at the right time is needed. Journal is properly maintained and signboard is erected.
8.	Selemual Lungsum Ratu Range	30 ha. 2020-21	<i>Michelia champaca, Bischofia ja- vanica, etc.</i>	47 cm	91%	24°8'59.17"N 92°57'50.89"E	The overall condition of the plantation is found satisfactory. Signboard is erect- ed and maintained journal properly.
<b>Widening of NH-54 (12.09 ha.)</b>							
1.	Khawten tlang Suangpuilawn Suangpuilawn Range	12.09 ha. 2020-21	<i>Prunus cerasoides, Bischofia javanica, Ligustrum robustum</i>	42 cm	91%	23°58'00"N 93°02'16"E	Plantation is well maintained. Weed- ing and cleaning at the right time is needed. Journal is properly maintained and signboard is erected.

## CHAMPHAI FOREST DIVISION

### 1. COMPENSATORY AFFORESTATION (CA) PLANTATIONS:

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
<b>CA - Bridge over river Tuivawl (0.2817 ha)</b>							
1.	Mualzen Champhai Champhai Range	0.2817 ha. 2014-15	<i>Michelia champaca</i> , <i>Toona ciliata</i> , etc.	60%	3.5m	23°28'8.82"N 93°16'3.42"E	Last maintenance in 2018-19. The area is small and planted 309 seedlings.

### 2. NET PRESENT VALUE (NPV) ANR PLANTATIONS (40 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Mualzen zau ram Kelkang Champhai Range	5 ha. 2020-21	<i>Parkia timoriana</i> , <i>Artocarpus heterophyllus</i> <i>Emblica officinalis</i> , <i>Terminalia myriocarpa</i> .	85%	1 ft	23°24'45.95"N 93°19'7.60"E	Good natural vegetation, prevention of fire is necessary. Signboard is erected and plantation journal is properly maintained.
2.	Hnarsarih ram Farkawn Farkawn Range	5 ha. 2020-21	<i>Parkia timoriana</i> , <i>Artocarpus heterophyllus</i> <i>Emblica officinalis</i> , <i>Prunus cerasoides</i> .	86%	1 ft	23°06'57"N 93°17'12"E	Good natural vegetation, prevention of fire is necessary. Signboard is erected and plantation journal is properly maintained.
3.	Mubu ram Khawbung Khawbung Range	5 ha. 2020-21	<i>Parkia timoriana</i> , <i>Artocarpus heterophyllus</i> <i>Mangifera indica</i> .	88%	1.5 ft	23°10'59"N 93°14'30"E	Good natural vegetation, prevention of fire is necessary. Signboard is erected and plantation journal is properly maintained.
4.	Darsam ram Khawhai Khawhai Range	5 ha. 2020-21	<i>Bischofia javanica</i> , <i>Toona ciliata</i> , <i>Michelia champaca</i>	86%	1ft	23°21'06"N 93°06'47"E	Good natural vegetation. Signboard is erected and plantation journal is properly maintained.

5.	Tingmun ram N. Diklang Hnahlan Range	5 ha. 2020-21	<i>Bischofia javanica</i> , <i>Toona cilata</i> , <i>Duabanga</i> , etc.	89%	1.5 ft	23°39'35"N 93°22'11"E	Good natural vegetation, prevention of fire is necessary. Signboard is erected and plantation journal is properly maintained.
6.	Hlingsi ngaw Neihdawn Khawzawl Range	5 ha. 2020-21	<i>Bischofia javanica</i> , <i>Toona cilata</i> , <i>Duabanga</i> , etc.	87%	2 ft	23°30'2.79"N 93°12'45.53"E	The area is semi-evergreen, thatching grass and broomstick are also found. Signboard is erected and plantation journal is properly maintained.
7.	Bevuak Kawlkulh Kawlkulh Range	5 ha. 2020-21	<i>Toona cilata</i> , <i>Michelia champaca</i> , etc.	85%	2 ft	23°38'54"N 93°04'23"E	Good natural vegetation. Signboard is erected and plantation journal is properly maintained. The overall condition is found satisfactory
8.	Teikhang ram Teikhang Ngopa Range	5 ha. 2020-21	<i>Toona cilata</i> , <i>Michelia champaca</i> , etc.	78%	2 ft	23°56'55"N 93°18'41"E	Good natural vegetation. Signboard is erected and plantation journal is properly maintained.

### 3. NET PRESENT VALUE (NPV) NURSERIES:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Range Complex Farkawn	1550	<i>Bischofia javanica</i> , <i>Michelia champaca</i> , <i>Duabanga grandiflora</i> , <i>Toona cilata</i> , <i>Parkia timoriana</i> , <i>Artocarpus heterophyllus</i> , etc.	All these Nurseries under Champhai Division are well maintained. All nurseries have good water tank, water distribution point and nursery hut. Nurseries are covered with shade nets. Nursery beds are made with cemented beds with brick-wall side support and polypots are used so as to increase and improve the quality, germination and health of the seedlings.
2.	Range Complex Khawbung	1210		
3.	Range Complex Hnahlan	1000		
4.	Range Complex Ngopa	1100		

## KAWRTHAH FOREST DIVISION

### 1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (50 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Tuidam – Darlak NH-44A roadside  Darlak  Kawrthah Range	10 ha.  2020-21	<i>Artocarpus hetero-phyllus</i> , <i>S. indica</i> , <i>Mangifera indica</i> , etc.	90%	2 ft	23°54'85.82"N  92°22'07.4"E	Good natural vegetation, prevention of fire is necessary. Signboard is erected and Plantation Journal is properly maintained.
2.	Zailui leh R.  Langkaih inkar ram  Tumpanglui Kawrthah Range	10 ha.  2020-21	<i>Michelia champaca</i> , etc.	85%	1.5 ft	23°55'41.6"N  92°19'82.8"E	Good natural vegetation, fire prevention is necessary. Signboard is erected and Plantation Journal is properly maintained.
3.	Dilte bul  Zamuang  Zamuang Range	10 ha.  2020-21	<i>Willughbeia edulis</i>	81%	1ft	24°08'29.6"N  92°24'32.4"E	Good natural vegetation. Signboard is erected and plantation journal is properly maintained.
4.	Sailui kam  M ualth uam  Kawrtethawveng Range	10 ha.  2020-21	<i>Bischofia javanica</i> ,  <i>Toona ciliata</i> ,  <i>Michelia champaca</i>	81%	1ft	23°51'27"N  92°18'54"E	The whole plantation is covered with bamboos. Signboard is erected and plantation journal is properly maintained.
5.	Zawlnuam cemetery  Zawlnuam  Kanhmun Range	10 ha.  2020-21	<i>Bischofia javanica</i> ,  <i>Toona ciliata</i> ,  <i>Duabanga</i> , etc.	80%	1 ft	24°08'09"N  92°20'00"E	All area is covered by tall grass and trees. Signboard is erected and plantation journal is properly maintained.

## 2. NET PRESENT VALUE (NPV) NURSERIES:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Darlak Kawrthah Range	10000	<i>Parkia timoriana</i> , <i>Delonix regia</i> , <i>Syzygium cumini</i> , <i>Litchi chinensis</i> , <i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Toona ciliata</i> , <i>Tectona grandis</i> , <i>Mangifera indica</i> etc.	All these Nurseries under Kawrthah Forest Division are well maintained. All nurseries have good water tank, water distribution point and nursery hut. Nurseries are covered with shade nets. Nursery beds are made with cemented beds with brick-wall side support and polypots are used so as to increase and improve the quality, germination and health of the seedlings. Ample care is taken to improve the quality and health of the seedlings.
2.	Range Complex Kawrtethawveng Range	2550		
3.	IB hlui tlang Zamuang Range	1250		
4.	Range Complex Kanmun Range	3000		

## MAMIT FOREST DIVISION

### 1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (60 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	W. Serzawl ram  W. Serzawl  Lengpui Range	30 ha.  2020-21	<i>Homalomena aromatica</i> , <i>Raintree</i> , <i>Michelia champaca</i>	85%	1 ft	23°54'18"N  92°37'46"E	Good natural vegetation, prevention of fire is necessary. Signboard is erected and Plantation journal is properly maintained.
2.	BSE Camp mual  Pukzing  Marpara Range	30 ha.  2020-21	<i>Homalomena aromatica</i> , <i>Emblica officinalis</i> , <i>Bischofia javanica</i>	85%	1 ft	23°20'23"N  92°25'42"E	Good natural vegetation, fire prevention is necessary. Signboard is erected and Plantation journal is properly maintained.

### 2. NET PRESENT VALUE (NPV) NURSERY:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Balhla kawn, Tuahzawl  Rawpuichhip Range	30000	<i>Parkia speciosa</i> , <i>Toona ciliata</i> , <i>Tectona grandis</i> , <i>Delonix regia</i> , <i>Artocarpus heterophyllus</i> , <i>Emblica officinalis</i> , <i>Syzygium cumini</i> , <i>Butter fruit</i> , etc.	This CAMPA Nursery under Mamit Forest Division is well maintained. Nursery have good water tank, water distribution point and nursery hut. Nursery are covered with shade nets. Nursery beds are made with cemented beds with brick-wall side support and polypots are used so as to increase and improve the quality, germination and health of the seedlings. Ample care is taken to improve the quality and health of the seedlings.

## THENZAWL FOREST DIVISION

### 1. COMPENSATORY AFFORESTATION (CA) PLANTATIONS:

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
<b>CA - Improvement &amp; Widening of Serchhip - Buarpui Road (2 ha.)</b>							
1.	Tuihnial chuah Thenzawl Thenzawl	2 Ha. 2014-15	<i>Tectona grandis</i>	80%	8m	23°29'73"N 92°69'15"E	Last maintenance in 2019-20 and become a successful plantation

### 2. NET PRESENT VALUE (NPV) ANR PLANTATIONS (40 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Chhipphir tlang  Chhipphir  Thenzawl Range	40 ha. 2020-21	<i>Prunus cerasoides</i> , <i>Ligustrum robustum</i> , <i>Michalia champaca</i> , <i>Ficus bengalensis</i> , etc.	82%	1.5 ft	22°94'9.52"N 92°47'4.42"E	Good natural vegetation, site selected is perfect. Signboard is erected and plantation journal is properly maintained. Rest hut was built inside the plantation. Overall condition is found satisfactory.

### 3. NET PRESENT VALUE (NPV) NURSERY:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Chalkhan kawn  Thenzawl Range	2787	<i>Lagerstroemia speciosa</i> , <i>Prunus cerasoides</i> , <i>Mangifera indica</i> , <i>Mesua ferrea</i> , <i>Artocarpus heterophyllus</i> , <i>Psidium guajava</i>	Nursery under Thenzawl Division is well maintained. Nursery have good water tank, water distribution point and nursery hut. Nursery beds are covered with shade nets and made with cemented beds with brick-wall side support and polypots are used so as to increase and improve the quality, germination and health of the seedlings. Ample care is taken to improve the quality and health of the seedlings.



## LUNGLEI FOREST DIVISION

### 1. COMPENSATORY AFFORESTATION (CA) PLANTATIONS:

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
<b>CA - Bridge over Kawrawng lui (0.2424)</b>							
1.	Thingfal ram  Thingfal  Tawipui Range	0.2424  2018-19	<i>Michelia champaca</i>	85%	2m	23°29'73"N  92°69'15"E	Plantation is well maintained. Sign-board is erected and maintained plantation journal properly.

### 2. NET PRESENT VALUE (NPV) ANR PLANTATIONS (60 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Arthladawn ram  Zobawk  Lunglei Range	20 ha.  2020-21	<i>Michelia champaca</i> , <i>Prunus cerasoides</i>	80%	1.5 ft	22°57'14"N  92°49'15.38"E	Maintenance work was taken by YMA. The efforts of RO's and staffs are found satisfactory. Sign-board was not found during the time of visit.
2.	Tuiphir ram  S. Vanlalpai  S. Vanlalpai Range	10 ha.  2020-21	<i>Michelia champaca</i> , <i>Toona cilata</i> , <i>Chukrasia velutina</i>	82%	1.5 ft	22°47'45.71"N  93°01'38.05"E	Plantation site is suitable for the selected species. Signboard is erected and maintained plantation journal properly.
3.	Khawhlu tlang hnuai  Mausen  Haulawng Range	10 ha.  2020-21	<i>Michelia champaca</i> , <i>Terminalia myriocarpa</i> , <i>Embilca officinalis</i> , <i>Oroxylum indicum</i>	75%	1 ft	23°00'41.88"N  92°45'55.40"E	Good natural vegetation. The growth of plant may slow due to trees covered the whole area. Contour trench was created in some places. Sign-board is displayed and maintained journal properly.

4.	Tuitai tlangliam  Denlung  Hnahthial Range	10 ha.  2020-21	<i>Michelia champaca</i> , <i>Terminalia myriocarpa</i> , <i>Embilca officinalis</i> ,  <i>Toona ciliata</i> .	90%	2 ft	22°57'51"N  92°54'51"E	Good natural vegetation, prevention of fire is necessary. Signboard is erected and Plantation Journal is properly maintained.
5.	Kanghreng ram  Tawipul N-I  Tawipui Range	10 ha.  2020-21	<i>Michelia champaca</i> , <i>Embilca officinalis</i> ,	88%	1.5 ft	22°42'25.48"N  92°50'50.27"E	Good natural vegetation. Signboard is erected and Plantation journal is properly maintained.

### 3. NET PRESENT VALUE (NPV) NURSERIES:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Pukpui Hightech Nursery  Lunglei Range	5400	<i>Michelia champaca</i> , <i>Prunus cerasoides</i> , <i>Parkia timoriana</i> , <i>Artocarpus chaplasha</i> , <i>Cassia javanica</i> , <i>Duabanga grandiflora</i> , <i>Lagerstroemia speciosa</i>	All these Nurseries under Lunglei Division are well maintained. All nurseries have good water tank, water distribution point and nursery hut. Nurseries are covered with shade nets. Nursery beds are made with cemented beds with brick-wall side support and polypots are used so as to increase and improve the quality, germination and health of the seedlings. Ample care is taken to improve the quality and health of the seedlings.
2.	Range Complex  Hnahthial Range	2200		
3.	Thualthu  Tawipui Range	1700		

## TLABUNG FOREST DIVISION

### 1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (45 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Tipreghat hmar lam  Tipreghat Tlabung Range	15 ha.  2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Mesua ferrea</i> , <i>Lagerstroemia speciosa</i>	85%	1.5 ft	22°49'43.73"N 92°29'24.17"E	Plantation site is perfect for planting. Overall condition is found satisfactory. Signboard is erected and plantation journal is properly maintained.
2.	Tuichawng kam  Tuichawng Lungsen Range	15 ha.  2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Artocarpus chaplasha</i>	88%	1.5 ft	22°55'35.39"N 92°31'39.15"E	Plantation site is suitable for the selected species. Signboard is erected and maintained plantation journal properly.
3.	Ngiau tiang kawng chhak  Chawngte 'L' Chawngte 'L' Range	15 ha.  2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i>	92%	1.5 ft	22°38'4.02"N 92°40'28.21"E	Good natural vegetation. Signboard is displayed and maintained journal properly.

### 2. NET PRESENT VALUE (NPV) NURSERIES:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Artah Tlabung Range	3733	<i>Michelia champaca</i> , <i>Prunus cerasoides</i> , <i>Parkia timoriana</i> , <i>Bischofia javanica</i> , <i>Bacca-rea ramiflora</i> , <i>Karipata</i> , <i>Artocarpus chaplasha</i> , <i>Terminalia myriocarpa</i>	All these Nurseries under Tlabung Division are well maintained. All nurseries have good water tank, water distribution point and nursery hut. Nurseries are covered with shade nets.
2.	Laldawla luikam, Tuichawng Lungsen Range	3500	<i>Mangifera indica</i> , <i>Syz-ygium cumini</i> , <i>Embllica officinalis</i> , etc.	Nursery beds are made with cemented beds with brick wall side support and polypots are used so as to increase and improve the quality, germination and health of the seedlings.
3.	Range Complex Chawngte 'L' Range	3400		Ample care is taken to improve the quality and health of the seedlings.

## NORTH VANLAIPHAI FOREST DIVISION

### 1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (45 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Ramrikawn N. Vanlaiphai  N. Vanlaiphai Range	20 ha. 2020-21	<i>Michelia champaca</i> , <i>Prunus cerasoides</i> , <i>Bischofia javanica</i> , <i>Bauhinia variegata</i>	80%	1.5 ft	23°63'7.76"N 93°43'0.17"E	The area was covered by grass and it is hard to survive the seedlings. Signboard is erected and maintained plantation journal properly.
2.	Thaitul ram  Thingsai  Thingsai Range	5 ha. 2020-21	<i>Michelia champaca</i> , <i>Terminalia myriocarpa</i>	81%	1.5 ft	22°57'44.88"N 93°42'7.22"E	Plantation site is suitable for the selected species. Signboard is erected and maintained plantation journal properly.
3.	Lenhmui tlang  Sialhawk  East Lungdar Range	5 ha. 2020-21	<i>Prunus cerasoides</i> , <i>Bischofia javanica</i>	85%	1 ft	23°17'21.23"N 93°05'25.27"E	Good natural vegetation. Signboard is displayed and maintained journal properly
4.	Vanghmun  S. Chawngtui Range	5 ha. 2020-21	<i>Toona ciliata</i> , <i>Prunus undulata</i>	84%	1.5 ft	23°3'15.581"N 93°0'54.83"E	The area was covered by trees, shrubs, reeds and weeds. It is suitable for ANR plantation.
5.	Cherhlun Cherhlun Range	5 ha. 2020-21	<i>Michelia champaca</i> , <i>Emblica officinalis</i> ,	88%	1.5 ft	22°42'25.48"N 92°50'50.27"E	Good natural vegetation. Signboard is erected and Plantation journal is properly maintained.

## 2. NET PRESENT VALUE (NPV) NURSERY:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Forest complex  N. Vanlaphai Range	10990	<i>Prunus cerasoides</i> , <i>Embluca officinalis</i> , <i>Ligustrum robustum</i> , <i>Syzygium cumini</i> , <i>Bauhinia variegata</i> , <i>Jacaranda mimosae folia</i>	Nursery under North Vanlaphai Division is well maintained. Nursery have good water tank, water distribution point and nursery hut. Nursery beds are covered with shade nets and made with cemented beds with brick-wall side support and polytops are used so as to increase and improve the quality, germination and health of the seedlings. Ample care is taken to improve the quality and health of the seedlings.

## AIZAWL WILDLIFE DIVISION

### 1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (15 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Chal hmun phei Thenhlum Thorang WLS Range	15 ha. 2020-21	<i>Bischofia javanica</i> , <i>Toona ciliata</i> , <i>Lagerstroemia speciosa</i> , <i>Syzygium cumini</i> , etc.	90%	1 ft	23°18'42.94"N 92°33'2.48"E	The area was good natural vegetation. Protection and prevention of fire is necessary. Signboard is erected and maintained plantation journal properly.

## LAWNGTLAI WILDLIFE DIVISION

### 2. NET PRESENT VALUE (NPV) ANR PLANTATIONS (10 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Dillui pahnihna  Khawmawi  Ngengpui WLS Range	10 ha. 2020-21	<i>Lagerstroemia speciosa</i> , <i>Syzygium cumini</i> , etc.	90%	1 ft	22°30'4.63"N 92°46'0.36"E	The area was degraded and abandoned jhum land and covered by bamboos, grasses and few trees. Signboard is erected and maintained plantation journal properly.

## KHAWZAWL WILDLIFE DIVISION

### 1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (15 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Khawhling mual  Rabung  Murlen National Park Range	8 ha.  2020-21	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Toona ciliata</i>	86%	2 ft	23°39'53.65"N 93°12'15.23"E	Good natural vegetation, prevention of fire is necessary. Signboard is erected and Plantation Journal is properly maintained.
2.	Dawhzau ram  Lamzawl  Lengteng Wildlife Sanctuary Range	7 ha.  2020-21	<i>Bischofia javanica</i> , <i>Toona ciliata</i> , <i>Ligustrum robustum</i>	85%	1.5 ft	23°49'53.65"N 92°12'25.00"E	Good natural vegetation, fire prevention is necessary. Signboard is erected and Plantation journal is properly maintained.

### 2. NET PRESENT VALUE (NPV) NURSERIES:

Sl. No.	Location & Range	Total stocks	Species raised	Comments/Remarks
1.	Khawhling mual  Murlen NP, Rabung	7200	<i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Toona ciliata</i> , <i>Ligustrum robustum</i> , <i>Parkia timoriana</i> , etc.	All these Nurseries under Khawzawl Forest Division are well maintained. All nurseries have good water tank, water distribution point and nursery hut. Nurseries are covered with shade nets. Nursery beds are made with cemented beds with brick wall side support and polypots are used so as to increase and improve the quality, germination and health of the seedlings. Ample care is taken to improve the quality and health of the seedlings.
2.	Range Complex  Lengteng WLS, Lamzawl	5000		

## LAI AUTONOMOUS DISTRICT COUNCIL

### 1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (20 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Paithar  Paithar  Lawngtlai Range	20 ha.  2020-21	<i>Michelia champaca</i> , <i>Terminalia</i> , <i>Bischofia javanica</i> , <i>Lagerstroemia sp.</i> , <i>Syzygium cumini</i> , etc.	86%	1 ft	22°26'20.27"N  92°54'03.55"E	Some parts of the area was degraded and some are good natural vegetation. Some of the area was covered by bamboos and grasses. Signboard is erected and maintained plantation journal property. Prevention of fire is much necessary for the success of the plantation.

## MARA AUTONOMOUS DISTRICT COUNCIL

### 1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (20 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Tiangpui  Tiangpui  Siaha Range	20 ha.  2020-21	<i>Michelia champaca</i> , <i>Lagerstroemia speciosa</i> , <i>Jacaranda</i> , etc.	70-80%	1 ft	22°30'17.48"N  93°1'2.41"E	Plantation site is not suitable for some species. It is difficult to observe survival percentage during the time of visit. Signboard is erected and maintained plantation journal property. Prevention of fire is much necessary for the success of the plantation.

CHAKMA AUTONOMOUS DISTRICT COUNCIL

1. NET PRESENT VALUE (NPV) ANR PLANTATIONS (20 ha.):

Sl. No.	Location, Village & Range	Area & Year	Species planted	Survival %	Avg. height	Geo-co-ordinates	Comments/Remarks
1.	Palenasora  Palenasora  Kamalanagar Range	10 ha.  2020-21	<i>Xylocarpa xylocarpa, Mangifera indica and bamboo species.</i>	85%	1.5 ft	22°36'412"N  92°35'575"E	Plantation site is good for the species. Signboard is erected and maintained plantation journal properly. Prevention of fire is much necessary for the success of the plantation.
2.	Mondirasora  Mondrasora  Kamalanagar Range	10 ha.  2020-21	<i>Xylocarpa xylocarpa, Mangifera indica and bamboo species.</i>	86%	1.5 ft	22°45'5.817" N  92°35'8.71"E	Plantation site is good for the species. Signboard is erected and maintained plantation journal properly. Prevention of fire is much necessary for the success of the plantation.

VII. SUGGESTIONS AND OBSERVATIONS:

- (1) The project could be improved when the funding amount was received in time; since this project is based on a seasonal work. The main problem is slow and insufficient funding.
- (2) More awareness to the Public is needed; awareness fund may be made available.
- (3) The present daily wage rate of the scheme is very less than the actual labour rate in the village. The minimum prevailing labour rate even in remote village is Rs. 500/- per day.
- (4) More technical training is needed for the field staffs for better success of the plantation.
- (5) Through interaction with the Forests staffs, partner organizations and Village council members, it was found that measures adopted for the conservation and protection of plantation is effective and satisfactory. The following measures are adopted for the protection of plantation as and when necessary:-
  - (a) Fire control.
  - (b) Strict vigilante against destruction of plantation.
  - (c) Control of grazing animals.
  - (d) Strict surveillance from encroachment.



(f) **Another observations:**

- (i) All the divisions successfully achieves the aims and objectives of the Project.
- (ii) Local peoples, specially women and lower class are engaged in all sorts of works within their respective project areas.
- (iii) CAMPA projects and programme can be an important measure to recover the fast decreasing forest area and for providing us a better and healthier environment.
- (iv) It is believed that the plantations taken up by the various Divisions and related activities under CAMPA would help us to develop the rural livelihood and to solve the unemployment problems of the State in future.
- (v) This programme creates more awareness in environment protection among the villagers.

**VIII. OVERALL GRADING OF THE PROJECT ON A SCALE OF 1 TO 10**

<b>QUANTITATIVE ASPECT</b>	Physical	8
	Financial	8.5
<b>QUALITATIVE ASPECT</b>	Survival percentage of the plantation	7
	Health & Growth of the seedlings planted	7.5
	Maintenance of the plantation	7
	Sustainability of the plantation	8
<b>OVERALL GRADING OF THE PROJECT</b>	Outstanding (8-10)	-
	Very Good (5-<8)	7.74 (Very good)
	Good (3-<5)	-
	Poor (<3)	-

Name of Evaluator : K. LALMUANSANGA  
Signature :  
Designation : President, ASEP  
Date : 30<sup>th</sup> March 2022  
Contact Number : 9862017018  
Seal :

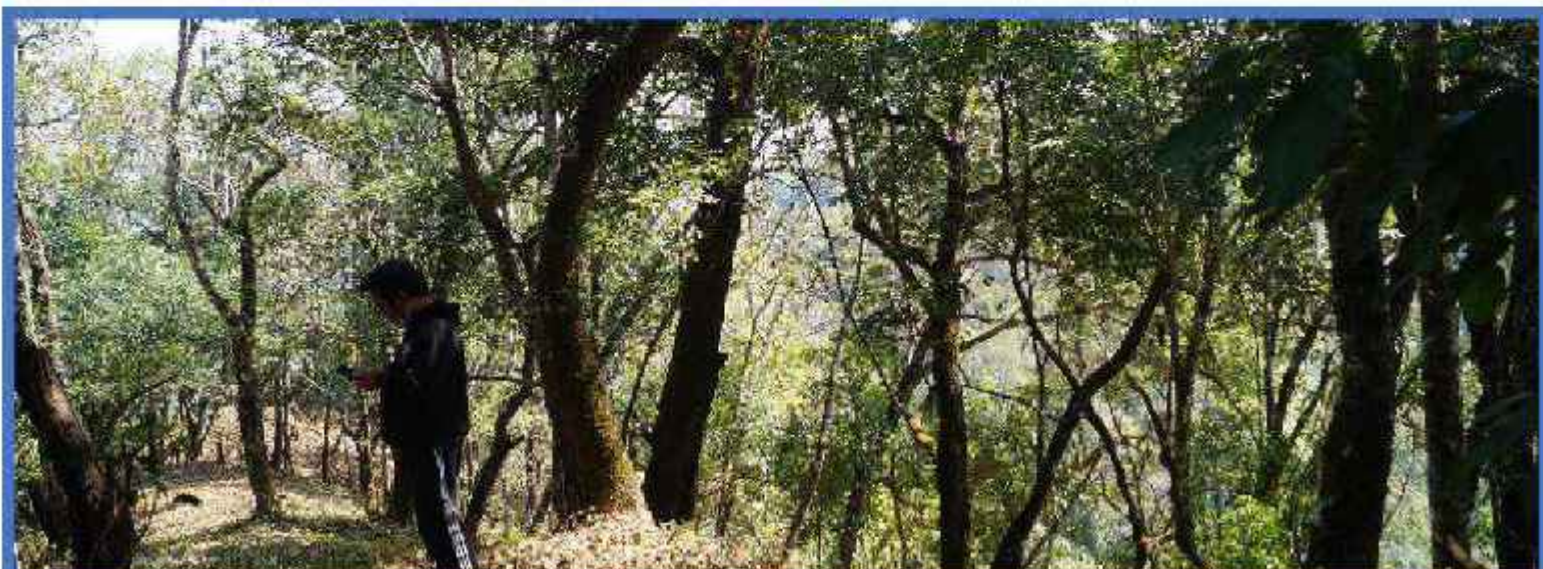
# PHOTOS OF AIZAWL FOREST DIVISION



# PHOTOS OF AIZAWL FOREST DIVISION



# PHOTOS OF AIZAWL FOREST DIVISION



# PHOTOS OF KOLASIB FOREST DIVISION



# PHOTOS OF KOLASIB FOREST DIVISION



# PHOTOS OF KOLASIB FOREST DIVISION



# PHOTOS OF DARLAWN FOREST DIVISION





# PHOTOS OF DARLAWN FOREST DIVISION



# PHOTOS OF DARLAWN FOREST DIVISION



# PHOTOS OF DARLAWN FOREST DIVISION



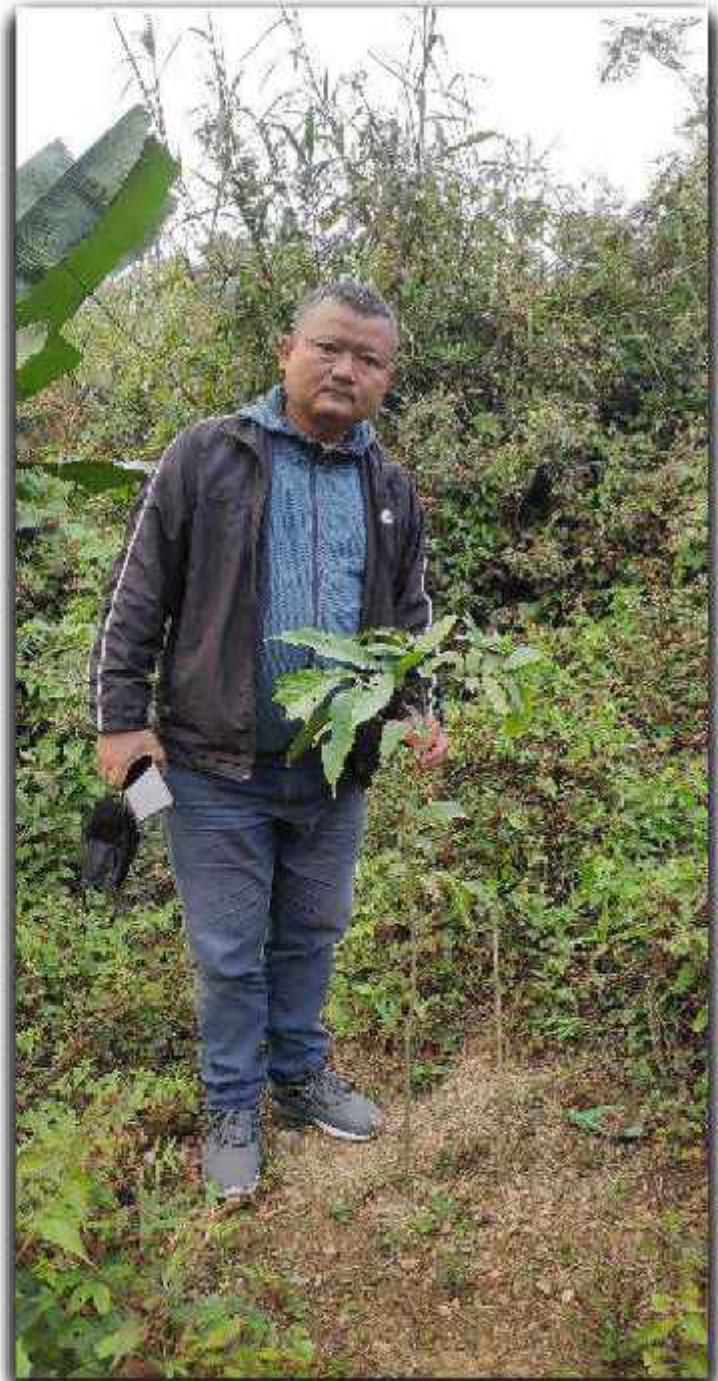
# PHOTOS OF CHAMPHAI FOREST DIVISION



# PHOTOS OF CHAMPHAI FOREST DIVISION



# PHOTOS OF KAWRTHAH FOREST DIVISION





# PHOTOS OF LAWNGTLAI FOREST DIVISION





# PHOTOS OF LUNGLEI FOREST DIVISION



# PHOTOS OF N. VANLAIPHAI FOREST DIVISION



# PHOTOS OF N. VANLAIPHAH FOREST DIVISION



# PHOTOS OF MAMIT FOREST DIVISION



# PHOTOS OF THENZAWL FOREST DIVISION

**ANR PLANTATION**  
LOCATION : CHHIPHIR TIANG  
TARGET : 40 Ha.  
YEAR : 2020 - 2021  
Species:  
1) Pinus keratocoides  
2) Equisetum debile  
3) Michelia champaca  
4) Ficus benghalensis  
5) Ficus auripes  
6) Sapindus andersonii  
7) Ficus religiosa guava



**Nursery**  
(Under)  
**CAMPA**

**SOIL ANALYSIS**  
1. Location : Chhiphir Tiang  
2. Date : 2020/11/10  
3. Soil : 100g  
4. Soil : 100g

Item	Value	Unit
1. Soil pH	6.5	
2. Soil Moisture	15.5	%
3. Soil Temperature	25.5	°C
4. Soil Organic Matter	1.5	%
5. Soil Nitrogen	0.15	%
6. Soil Phosphorus	0.15	%
7. Soil Potassium	0.15	%



# PHOTOS OF TLABUNG FOREST DIVISION



# PHOTOS OF AIZAWL WILDLIFE DIVISION



# PHOTOS OF KHAWZAWL WILDLIFE DIVISION





# PHOTOS OF LADC FOREST DIVISION



# PHOTOS OF LAWNGTLAI FOREST DIVISION



# PHOTOS OF LADC FOREST DIVISION



# PHOTOS OF CADFC FOREST DIVISION



# PHOTOS OF MADFC FOREST DIVISION



