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

Under CAMPA APO (Part of 2020-2021 and 2021-2022)

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CONTENTS

1. Introductory sammary
2. Objectives of CAMPA
3. State CAMPA Monitoring
4. Objectives of Monitoring and evaluation
5. Lists of Projects/Works Monitored
6. Field Observations
7. Observations
8. Suggestions for Improvements
9. Overall grading of the Project & Format of Curriculum Vitae of Monitoring Agency
10. Photos of Field Visits

REPORT ON MONITORING AND EVALUATION OF CAMPA WORKS IMPLEMENTED BY THE DEPARTMENT OF EF&CC, GOVERNMENT OF MIZORAM UNDER CAMPA APO (PART OF 2020-2021 AND 2021-2022)

I. Introduction:

India being the seventh largest Geographical area in the world, has a forest cover of 23% of its landscape, comprising a number of diverse forest types and reserved areas designated as Wildlife Sanctuaries and National Parks. These forests are vital for sustenance of all life form animal, plant and human beings, especially the Tribals community who solely dependent on the product of the forest.

As per the National Forest Policy constituted in 1988, the National Goal clearly defined that a minimum of one third of the total land area of the country should be under forest or tree cover in the hills and mountainous regions. The aim should be to maintain two third of the area under such cover in order to prevent erosion and land degradation and to ensure the stability of the eco-system. As such, the principal aim of Forest Policy must be to ensure environmental stability including atmospheric equilibrium. The derivation of direct economic benefit must be subordinate to this principal aim.

The basic objectives that governed National Forest Policy are :-

(1) To maintain environmental stability

(2) Conserving the natural heritage of forest with the vast variety of flora and fauna

(3) Checking soil erosion and denudation in the catchment areas of rivers, lakes, reserviors in the interest of soil and water conservation.

Whereas development projects neccessitates diversion or destruction of forest land. mining, construction of roads, industry and erection of dams, et al.

Proposal for any project, government or private is to be submitted through the concerned Forest Department of the State Government for Forest clearance from Ministry of Environment, Forests & Climate Change (MOEFCC) before the actual conversion of land take place. After assurance of forest clearance is acquired then compensation for the lost forest of the proposed project is to be decided by the Ministry and the Regulators.

Certain descrepancies 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) in National Advisory Council inder the Chairmanship of the Union Ministry of Environment Forests & Climate Change (MoEF&CC), for monitoring, technical assistance and Evaluation of Compensatory afforestation activities.

The Compensatory Afforestation Fund Act 2016 come in to being and the Fund doled out by the Ministry should be utilised to collect for undertaking Artificial Regeneration (Plantations), Assisted Natural Regeneration protection of forests infrastructure development, Green India Programme, Wildlife Protection and other related activities for matters connected therewith.

To come to the context of the State of Mizoram, it is one of the Biological Diversity of the Hot Spots in N.E. India under Indo-Burma region, sandwitched between Myanmar and Bangladesh has share its boundaries with the Indian states of Assam, Manipur and Tripura has Geographical area of 21081 Sq. Km. is located under Longitude degree 92º 15' E to 93º 29' E and Latitude degree is 21º 58' N to 24º 35' N.

As per the Report (IFSR 2021) 84.53% of Geographical area is under forest green cover which is highest in India. But the green cover area is rapidly dwindling because of slash and burn jhuming method which is still in practice today – Effort is made to contain such cultivation and those already damaged area is being rehabilitated through forestry and mass energy plantation.

II. OBJECTIVES OF CAMPA

The State Forest Department has been undertaking various works viz - Compensatory Afforestation (CA) and Non Compensatory Afforestation (Plantation works other than CA) works with fund provided under APOs of 2009-20 till 2019–2020 of State CAMPA in area of forest land diverted in respect of various FCA Projects.

As such, CAMPA is 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 mandates.

(1) Lay down board guidelines for State CAMPA

(2) Facilitate scientific, technological and other assistance that may be required by State CAMPA.

(3) Make recomendation to State CAMPA based on a review of their plan and programmes.

(4) Provide a mechanism to State CAMPA to resolve issues of an inter-state or Centre-State character.

III. STATE CAMPA MONITORING

In compliance of the guidelines on the State CAMPA and ministry of Environment, Forests and Climate Change. D.O. Letter No. 15-2(O) 2014-CAMPA dt. 18.09.2014. The State Environment, and Forests Department engaged third party/independent monitoring. Agencies viz. Save Environment Association (SENVA) vide B-20018/23/2015-CAMPA/ PCCF/6 dt. 30.03.2017. The said Independent Monitoring Agency had conducted monitoring works under taken for the APO year 2016-2017 in various Territorial Division in the state under CAMPA during the month of April and May 2017.

In order to assess the State CAMPA works - under 2020 – 2021 and 2021 – 2022. Environment, Forests and Climate Change Department Mizoram has engaged – Save Environment Association (SENVA) to carry out third party monitoring and evaluation of works taken up under CAMPA APO 2020 – 2021 and 2021 – 2022 as per - ToR of EoL vide Letter No. B-22018/23(A)/2021 CAMPA/PCCF dt. 11.7.2021 as agreed and deed of MoU signed on 28.8.2023.

The said third party is to undertake monitoring and evaluation of various works implemented by the E,F&CC Department Mizoram under CAMPA. APO above mentioned year wise. The monitoring and evaluation has to be executed as per MOU-/ToR Covering 10 Territorial Forest Division, 3 Wildlife Division and 3 Autonomous Districts Council of Mizoram, 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 Plan (CATP), Net Present Value (NPV), ANR plantations.

IV. OBJECTIVES OF MONITORING AND EVALUATION

1. To make the physical assesment of works done, to judge the quality and standard attained.
2. To study the limitations and deficiences in the implementation with a view to suggesting modifications in techniques, tools, materials and financial provisions.
3. The ultimate objectives is to ensure maximum efficiency in the implementation and safe guard against infructuous expenditure and take timely and remedial measure wherever neccessary.

METHODOLOGY OF MONITORING EVALUATION WORKS

The Methodoloty engaged in monitoring and evaluation visiting actual site inspection of various works undertaken by the State Department under CAMPA. Examination of Record such as Actual Payee Receipt (APR). MB – Treatment MAP, Plantations, Register/Journals and Cash Book – have been examined during the course of monitoring and evaluation. Inter action meeting and discussion of the Project Component have been held with each and every Territorial DFO's and staff, member of Village Council and prominent leaders of partner organizations.

The Divisional-wise Detail Report of field observation are the following –

REPORTS

V. LISTS OF PROJECTS/WORKS MONITORED

AIZAWL FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Construction of 132 KV Transmission line (Sakawrtuichhun - Sihhmui) (CA)	Advance Work	18.78	2021-22
2.	Tuirial HEP (CATP)	1st Year maintenance	200 ha	2021-22
3.	Tuirial HEP (CATP)	4th Year maintenance	150 ha	2021-22
4.	132 KV Transmission line (Dwarf Plantation)	Advance works	2.08	2021-22
5.	Forest fire Prevention (NPV)	Creation of Fireline	57.8 km	2021-22
6.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV).	Maintenance of nursery	LS	2021-22
7.	Aided Natural Re-Generation (NPV)	Creation	60	2020-21
8.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	8 km	2020-21
9.	Nurseries (NPV)	2nd year seedlings	2778	2020-21
10.	Biodiversity Conservation at Tamdil lake (NPV)	Biodiversity Conservation	1 no	2020-21

DARLAWN FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Widening & upgradation of NH-54 to 2 lane (Pk. III) km 8.00 - 250 within Aizawl & Lunglei District (CA)	Creation	12.09 ha	2021-22
2.	NH-150 Zemabawk to E. Phaileng (CA)	Creation	23.69 ha	2021-22
3.	IBB Fencing inside DTR (CA)	Creation	717 ha	2021-22
4.	Tuirial HEP (CA)	Creation	551 ha	2021-22
5.	Tuirial HEP (CA)	1st year maintenance	432.5 ha	2021-22
6.	Tuirial HEP (CA)	3rd Year maintenance	346.5 ha	2021-22
7.	MSRP - II (Gr-I) Tlabung – Kawrpuichhuah (CA)	3rd Year maintenance	4.98 ha	2021-22
8.	BG Railway line between Bairabi to Sairang (CA)	5thYear maintenance	46.555 ha	2021-22
9.	NH-44 A (Lengpui – Langkaih) (CA)	5thYear maintenance	56.633 ha	2021-22
10.	Improvement of Chhumkhum to Chawngte Road (CA)	5thYear maintenance	3.85 ha	2021-22
11.	BG Railway line between Bairabi to Sairang (CA)	6th year maintenance	27.933 ha	2021-22
12.	Tuirial REP (CATP)	1st Year maintenance	300 ha	2021-22
13.	Tuirial HEP (CATP)	4th Year maintenance	300 ha	2021-22
14.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22

15.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
16.	Biodiversity Conservation at Rungdil lake (NPV)	Biodiversity Conservation	1 no	2020-21

CHAMPHAI FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	57.8 km	2021-22
2.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc.	Maintenance of nursery	LS	2021-22
3.	Aided Natural Re-Generation (NPV)	Creation	40	2020-21
4.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	8 km	2020-21
5.	Nurseries (NPV)	2nd year seedlings	2778	2020-21
6.	Protection and Management of Biodiversity/Biological Resource at Biodiversity park (NPV)	Protection & Management	1 no	2020-21

THENZAWL FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
3.	Aided Natural Re-Generation (NPV)	Creation	40 ha	2020-21
4.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	8 km	2020-21
5.	Nurseries (NPV)	2nd year seedlings	2778	2020-21

KOLASIB FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	400 KV Transmission line (CA)	5th Year maintenance	768.062 ha	2021-22
2.	Tuirial HEP (CATP)	1st yr maintenance	300 ha	2021-22
3.	Tuirial HEP (CATP)	4th yr maintenance	300 ha	2021-22
4.	400 KV Transmission Line (Dwarf Plantation)	5th yr maintenance	21.5 ha	2021-22
5.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
6.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	-	LS	2021-22
7.	Construction of new Forest Checkgate (NPV)	-	1 no	2020-21

MAMIT FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
3.	Catchment area treatment for management of biodiversity : Lidar based project (NPV)	Biodiversity Conservation Activity	1000 ha	2021-22
4.	Aided Natural Re-Generation (NPV)	Creation	60 ha	2020-21
5.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	20 km	2020-21
6.	Nurseries (NPV)	2nd year seedlings	11667	2020-21

KAWRTHAH FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
3.	Catchment area treatment for management of biodiversity : Lidar based project (NPV)	Biodiversity Conservation Activity	1000 ha	2021-22
4.	Aided Natural Re-Generation (NPV)	Creation	50 ha	2020-21
5.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	15 km	2020-21
6.	Nurseries (NPV)	2nd year seedlings	9444 nos	2020-21
7.	Biodiversity Conservation at Rengdil lake (NPV)	Biodiversity Conservation	1 no	2020-21

LUNGLEI FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Bridge over Kawrawng lui	3rd Year maintenance	0.2424 ha	2021-22
3.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc.	Maintenance of nursery	LS	2021-22
4.	Aided Natural Re-Generation (NPV)	Creation	60 ha	2020-21
5.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	20 km	2020-21
6.	Nurseries (NPV)	2nd year seedlings	11667	2020-21

N. VANLAIPHAI FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
3.	Aided Natural Re-Generation (NPV)	Creation	45 ha	2020-21
4.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	15 km	2020-21
5.	Nurseries (NPV)	2nd year seedlings	9444	2020-21

TLABUNG FOREST DIVISION

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
3.	Aided Natural Re-Generation (NPV)	Creation	45 ha	2020-21
4.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	15 km	2020-21
5.	Nurseries (NPV)	2nd year seedlings	9444	2020-21
6.	Construction of new Forest Checkgate (NPV)	-	1 no	2020-21

DCF (WL), AIZAWL

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Aided Natural Re-Generation (NPV)	Creation	15 ha	2020-21
3.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	22 km	2020-21
4.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
5.	Aided Natural Re-Generation (NPV)	Advance Work	10 ha	2020-21
6.	Forest fire Prevention & Control (NPV)	Creation of fireline	18 km	2020-21

DCF (WL), KHAWZAWL

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Aided Natural Re-Generation (NPV)	Advance Work	15 ha	2020-21
3.	Forest fire Prevention & Control (NPV)	Creation of fireline	22 km	2020-21
4.	Nurseries (NPV)	2nd year seedlings	12222	2020-21

DCF (WL), LAWNGTLAI

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	28.9 km	2021-22
2.	Aided Natural Re-Generation (NPV)	Advance Work	10 ha	2020-21
3.	Forest fire Prevention & Control (NPV)	Creation of Fireline	18 km	2020-21

WPO (NORTH)

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Survey & Mapping of RF/RRF (Chalfilh RF)	Constuction of boundary pillars	-	2020-21

WPO (SOUTH)

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Survey & Mapping of RF/RRF (Bunghmun RF)	Constuction of boundary pillars	-	2020-21

MADC

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Widening & upgradation of NH-54 to 2 lane (Pk. III) km 250-380 within Siaha District (CA)	Advance Work	6.37	2021-22
2.	Forest fire Prevention (NPV)	Creation of Fireline	23.12 kni	2021-22
3.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
4.	Aided Natural Re-Generation (NPV)	Creation	20 ha	2020-21
5.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	10 km	2020-21

LADC

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Widening & upgradation of NH-54 to 2 lane (Pk. III) km 250-380 within Lawngtlai District (CA)	Advance Work	4.81	2021-22
2.	Forest fire Prevention (NPV)	Creation of Fireline	5.78 km	2021-22
3.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
4.	Aided Natural Re-Generation (NPV)	Creation	20 ha	2020-21
5.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	10 km	2020-21

CADC

Sl. No.	Name of Project	Work Description	Area	APO Year
1.	Forest fire Prevention (NPV)	Creation of Fireline	5.78 km	2021-22
2.	Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc. (NPV)	Maintenance of nursery	LS	2021-22
3.	Aided Natural Re-Generation (NPV)	Creation	20 ha	2020-21
4.	Forest fire Prevention & Control (NPV)	Maintenance of fireline	10 km	2020-21

VI. GENERAL OBSERVATIONS

All records such as Plantation journals, Treatment map, plantation registration, records and 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

Sl. No.	Location Village & Range	Area (in Ha) & Year	Species Planted/ raised	Sur-Viv al %	Avg. Height mtr	Geo-co-ordinates	Comments/ Remarks
Construction of 132 KV Transmision line (Sakawrtuchhun to Sihmui) (CA)							
1.	Lungsezang, Setlak	18.78 ha. 2021-22	*Michelia champacca, Terminalia arjuna, Bischofia javanica, Syzygium cumina*	95%	0.9	23°46'38.32"N 92°38'21.9"E	The Monitoring Team, after visiting the actual site of plantation, found that, the plantation is up to the mark and mode of operation is satisfactory. The saplings are healthy and found to be established as per the standard norms. Plantation Journal, record and cash book are available for inspection. Platation signboards are erected.
Tuirial HEP (CATP) (1st Year Maintenance): (200 ha.)							
1.	Biakin tlang hnuai Hmawngkawng	50 ha. 2021-22	*Michelia champacca, Cinnamomum verum, Chukrasia velutinam, Aquilaria malaccensis, Toona ciliata*	75%	1.5	23°29'52.89"N 92°49'55.73"E	The site visiting enable the team to evaluate the plantation to be as per the project guidelines. Important documents viz = Journal, record and cash book are properly maintainted. Plantation Huts are constructed and still intact.
2.	Bemual, Sateek	50 ha. 2021-22		71%	1.8	23°32'43.12"N 92°38'29.29"E	
3.	Far tlang, Hlimen	100 ha. 2021-22		83%	2.2	23°39'36.52"N 92°43'15.85"E	

Tuirial HEP (CATP) (4th Year Maintenance): (150 ha.)							
1.	Phulraw pang, Maubuang	150 ha. 2021-22	*Michelia champacca, Cinnamomum verum, Chukrasia velutinam, Aquilaria malaccensis*	71%	3.4	23°30'08.1"N 92°42'57.3"E	The site visiting enable the team to evaluate the plantation to be as per the project guidelines. Important documents viz = Journal, record and cash book are properly maintainted. Plantation Huts are constructed and still intact. But they are beginning to be deteriorated.
132 KV Transmission line (Dwarf Plantation)							
1.	Tlawng RRF, Sairang	2.08 ha. 2021-22	*Michelia champacca, Bischofia javanica, Syzygium cumini*	95%	0.9	23°50'55.10"N 92°50'33.1"E	The plantation is found to be as per the guidelines of work components. Implementing agency properly maintained plantation documents like – Journal, record and cash book for inspection. The growth and health of the saplings are satisfactory. But the area need routine weeding.

Forest Fire Prevention (NPV) : Creation of Fireline				
1.	Durtlang Kham	10.8 km 2021-22	23°46’2.46”N 92°43’12.04”E	Traces of creation of firelines is still visible and they are wide enough to contain flaming forest fires. The forest fireline would be able to douse forest fire if need arises. The work journa, record and cash book are available and properly maintained.
2.	Sakawrhmuituai, Sihphir		23°51’32.65”N 92°44’23.54”E	
3.	Zokhawsang , Zemabawk		23°43’36.04”N 92°45’28.52”E	
4.	Reiek Tlang,		23°40’49.64”N 92°35’55.70”E	
5.	Muthi		23°45’34.99”N 92°45’35.20”E	
6.	Durlui (NH-54)-Mualkhang	12 km 2021-22	23°53’57.4”N 92°39’08.5”E	After visiting sites of the Forest Fire Prevention (NPV) project, creation of fireline are still visble at four different Ranges i.e. sanctuary though the area is under fast growing vegetation, the measure have been found adequate to produce satisfactory result. The area covered with grasses, thin foliage and shrub are cleared as a fireline measuring four metres wide. The cleared are appeared to be able to contain and control forest fire at the time of creation.
7.	Sateel-Phulpui road		23°32’58.30”N 92°42’35.16”E	
8.	Durtlang peng-Tlawng		23°32’40.74”N 92°40’50.31”E	
9.	Sateek, Dihmun		23°31’55.57”N 92°41’59.42”E	

10.	Sakhisih ram, Hmawngkawn	13 km 2021-22	23°28’26”N 92°49’09”E	After visiting sites of the Forest Fire Prevention (NPV) project, creation of fireline are still visble at different area sanctuary though the area is under fast growing vegetation, the measure have been found adequate to produce satisfactory result. The area covered with grasses, thin foliage and shrub are cleared as a fireline measuring four metres wide. The cleared are appeared to be able to contain and control forest fire at the time of creation.
11.	Vaisamtlang, Baktawng		23°30’58”N 92°49’56”E	
12.	Vaisamtlang (Zongaw) Baktawng		23°31’18”N 92°50’22”E	
13.	Mutelen Tlang, Tlungvel		23°37’03’N 92°50’58”E	
14.	Daireh mual, Khumtung		23°33’07”N 92°51’35”E	
15.	Hmarmual, Sesawng		23°44’58”N 92°51’02”E	
16.	Fingzamual, Tualbung	12 km 2021-22		After visiting sites of the Forest Fire Prevention (NPV) project, creation of fireline are still visble at different area sanctuary though the area is under fast growing vegetation, the measure have been found adequate to produce satisfactory result. The cleared are appeared to be able to contain and control forest fire at the time of creation
17.	Tamdil Wetland Area		23°47’02”N 92°56’05”E	
18.	Saihmar Tlang		23°44’01”N 92°56’59”E	
19.	Mualpheng		23°41’27”N 92°58’37”E	
20.	Thalparh ram, Tawizo		23°33’31”N 92°57’34”E	
21.	Khawthlir, Tualbung		23°46’46”N 92°52’08”E	

Net Present Value (NPV) : Maintenance of Nurseries							
1.	Central Nursery Tuirial	LS	*Ligusrum robustum,* *Toona ciliate,* *Syzygium cumini,* *Michelia champacca,* *Bischofia javanica,*	23°43'27.87"N 92°47'50.00"E			The tender seedlings are found to be healthy and appeared that ample care is given when and where necessary. The number of seedlings that are in the seed bed are as per the requirement of the project guideline. Signboard are erected and well maintained to indicate each and every species of the seed bed. Water tanks are constructed in RCC structure. Seed beds are constructed with cemented bricks and iron Rooftrust with Neflon meterials are used to shade the whole sections of nurseries.
2.	Central Nursey Sairang Dinthar			23°49'02.5"N 92°39'26.1"E			
3.	Tlungvel Nursery			23°37'00"N 92°51'01"E			
4.	Tamdil Nursery			23°44'07.94"N 92°57'04.38"E			
5.	Aibawk Forest Complex			23°33'41.11"N 92°42'28.05"E			
Net Present Value (NPV) ANR Pantations : Creation (60 ha.)							
1.	Chuhvel ram, Tachhip	15 ha. 2020-21	*Michelia champacca, Toona ciliate, Samania saman*	75%	1.2	23°33'58.1"N 92°42'03.1"E	Sylviculture method of plantation is applied for creation of this ANR Plantation.

2.	Tuilak Hnar Ram Dilkhan	15 ha. 2020-21	*Michelia champacca, Bischofia javanica, Toona ciliate*	80%	1.5	23°46'43.47"N 92°57'10.74"E	Plantation site selected for this creation is perfectly suited for planting condition of the plants is found satisfactory. Signboards indicating each species are erected and still intact.
3.	Ruanzawl ran hnai, Hmawngkawn	15 ha. 2020-21	*Bischofia javanica, Michelia champacca, Ligusrum robustum, Toona ciliate, Syzygium cumini*	73%	1.3	23°29'28"N 92°49'30"E	Plantation spacing is designed in such away that canopy are design to fully shade the opening air space above. Journal, record and cash book are properly maintained.
4.	Pualhrang luikam, Mualkhang	15 ha. 2020-21	*Chukrasia tabularis, Bischofia javanica, Michelia champacca, Syzygium cumini, Toona ciliate*	83%	1.6	23°55'44"N 92°39'34"E	The selected site is suitable for the creation of plntation and the method applied is up to the standard norms. Health and growth of species planted are satisfactory. The plantation path ,journal, record, and cash book are properly maintained.
Forest Fre Prevention & Control (NPV) : Maintenance of Fireline							
1.	Pualhrang luikam, Lungdai	4 km 2020-21				23°53'01.37"N 92°42'55.85"E	Traces of fireline is still visible aven though the natural vegetation almost covered all the firelines. It is saddening to mention that the project seem to be utterly neglected and the team recommended that weeding is compulsory to control the forest fire for the ensuing fire season.
2.	Vanko ram Samtlang	4 km 2020-21				23°39'45"N 92°41'02"E	

Net Present Value (NPV) Nurseries : 2nd Year Seedlings							
1.	Central Nursery Tuirial	2778nos 2020-21	*Artocarpus heterophyllus, Michelia champacca, Toona ciliate, Bischofia javanica, Mesua ferrea*			23°39'45"N 92°41'02"E	The actual site of central nursery at Tuirial kam is visited by the team and found the nursery is well equipped with big size water reservoir to sufficiently supply each and every seed beds with a good distribution system. The seed beds are nade up with RCC structure and the supporting wall are made up with cemented bricks. The whole nursery beds are covered with neflon nets with supporting iron roof trust. Polypot are used to increased the quality of germinating seeds. The enthusiasm and deligency of the working staff is highly commendable.

Sl. No.	Location Village & Range	Work Description	Area & Year	Species Planted	Geo-co-ordi-nates	Comments/ Remarks
Biodiversity Conservation at Tamdil Lake (NPV)						
1.	Tamdil Wet-land area	Construction of compost pit for re-moved debris and unwant-ed species	1 no 2020-2021	*Bischofia javan-ica, Ligusrum robustum,Prunus undalata, Phylan-thus emblica, Hovenia dulcis*	23°44'14"N 92°57'08"E	Mixed species Plantation is created for the Conservation of Biodiversitys. The spacing of plant-ing, Growth and Health is satisfac-tory. Sign boards, requesting visitors to perticapate in Conserving Biodi-versity with utter care are displayed. Plantation Journal, record and cash book are properly maintained.

DARLAWN FOREST DIVISION

1. Compensatory Afforestation (CA) Creation of Plantation

Sl. No.	Location Village & Range	Area (in Ha) & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
Widening Upgradation of NH-54 to 2-lane (Package 1&2) km 8.00-250 within Aizawl & Lunglei District							
1.	Khawten tlang , Suangpuilawn Range	12.09 2021-22	*Michelia champacca, Gomari*	85 %	4 ft	23°58'49.00"N 93°02'16"E	After visiting the Plantation site , it was found that the plantation is up to the mark and they are likely to establish themselves as per the expectation of the project.
Construction of NH – 150 Zemabawk to E. Phaileng							
1.	Mualkawi hla, Damdiai, Khawruhlian Range	23.69 2021-2	*Michelia champacca, Gomari*	84%	5 ft	23°55'13"N 92°49'50"E	The site is visited and found the plantation are healthy and survival rate is satisfactory.

IBB Fencing and Patrol road inside DTR							
1.	Buhban, Khawruhlian Range	126.7 2021-22	*Michelia champacca, Gomari,Tectona grandis, Toona ciliata,Gmelina arborea*	85%	4 ft	23°53'33"N 92°51'41"E	The area of the plantation is vast enough to accommodate the project component and they are likely to survive up to the expectation of the requirement of the implementing agency.
2.	Hmarchar hmun, Lailak, Khawruhlian Range	127.53 2021-22		87%	4 ft	23°55'13"N 92°49'50"E	
3.	Mualkir, Khawruhlian Range	158.05 2021-22		92%	4 ft	23°53'33"N 92°51'41"E	
4.	Selemual, Lungsum, Ratu Range	30 2021-22		89%	5 ft	24°7'43.766"N 92°52'55.238"E	After visiting the plantation site the requirement of the implementing agency is found to be satisfactory.
5.	Kandar ram, Sunhluchhip, Darlawn Range	91.14 2021-22		91%	4 ft	23°57'14.2"N 92°50'42.0"E	The implementing agency applied the plantation method, journal /record is well maintained.
6.	Lawikai mual, Chhanchhuahna, Darlawn Range	183.58 2021-22		90%	4 ft	23°58'13.06"N 92°49'33.34"	
Tuirial HEP (CA)							
1.	N.Serzawl, Darlawn Range	339.5 2021-22	*Michelia champacca, Gomari*	85%	4 ft	23°57'14.2"N 92°50'42.0"E	The plantation method is applied in to to, joural and records are properly maintained.
2.	Khanpui, Khawruhlian Range	211.5 2021-22		87%	4 ft	23°53'33"N 92°51'41"E	The implementing agency applied the plantation method in to to, journal and record are properly maintained.

Tuirial HEP							
1.	Chhanchhuahna, Darlawn Range	432.5 2021-22	*Michelia champacca, Gomari, , Toona ciliata*	85%	5 ft	23°58'13.06"N 92°49'33.34"	After visiting the plantation site, it was found satisfactory as they displayed signboards, cashbook , plantation journal are properly maintained.
2.	Chhanchhuahna ram tlak lam, Darlawn Range	200 2021-22		89%	4 ft	23°57'14.2"N 92°50'42.0"E	
3.	Phaitlang ram, N.Serzawl , Darlawn Range	100 2021-22		87%	5 ft	23°58'13.06"N 92°49'33.34"	
4.	Ngaizel, Khanpui ram, Khawruhlian Range	46.5 2021-22		85%	5 ft	23°53'33"N 92°51'41"E	The monitoring team found that the climatic condition is suitably favourable for the successful plantation. The implementing agency seem to be diligent and sincere.
MSRP – II, Gr – I (Tlabung to Kawrpuichhuah road)							
1.	Sasaw tlang, Sawleng, Darlawn range	4.98 2021-22	*Tectona grandis, Toona ciliata,Gmelina arborea*	86%	4 ft	23°57'14.2"N 92°50'42.0"E	The plantation is well maintained and no encroachment is found by near by villagers. The project is found to be successful.
Construction of BG Railway Line from Bairabi to Sairang							
1.	Lenhmui zawl , N.Serzawl Darlawn Range	46.555 2021-22	Gomari,Tectona grandis, Toona ciliata	85%	6 ft	23°58'13.06"N 92°49'33.34"	The project is fully accomplished and the condition of the plantation is found to be healthy and well kept.

NH-44 A Lengpui to Langkaih							
1.	Kawipui chung, New Vervek , Ratu Range	56.633 2021-22	*Michelia champacca, Gomari,Toona ciliata*	87%	5 ft	24°7'43.766"N 92°52'55.238"E	The implementing agency performed the task of replenishing the degraded area and the method they applied is found to be satisfactory.
MSRP –II , Gr- I (Chhumkhum to Chawngte Road)							
1.	Sasaw Tlang, Sawleng, Darlawn Range	3.85 2021-22	*Gmelina arborea, Michelia champacca,*	89%	4 ft	23°58'13.06"N 92°49'33.34"	It is saddening to find that the severe encroachment and wanton destruction is practiced by the adjacent villages. Journal/record is maintained.
Construction of BG railway line from Bairabi to Sairang							
1.	Lenhmui zawl , N.Serzawl Darlawn Range	27.933 2021-22	*Michelia champacca, Gomari,Tectona, Grandis*	91%	6 ft	23°57'14.2"N 92°50'42.0"E	The monitoring team found that the implementing agency tried their best for the success of the project. The plantation journal/record and cash book are well maintained.

2. Plantation (CATP)

Sl. No.	Location Village & Range	Area (in Ha) & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Darlawn, Darlawn Range	200 ha. 2021-22	Gomari,Tectona grandis, Toona ciliata *Michelia champacca,*	87%	4 ft	23°58'04.9"N 92°51'28.3"E	The project is well maintained and kept safe from the encroachment of the nearby villages. Signboards are erected and plantation journal is properly maintained.
2.	Zohmun, Zohmun Range	100 ha. 2021-22	*Michelia champacca, Gomari, Tectona grandis*	85%	5 ft	24°12'17"N 92°56'40"E	

3.	Buallawn ram, Ratu range	150 ha. 2021-22	Tectona grandis, Toona ciliata *Michelia champacca, Gomari*	86%	5 ft	24°06'36"N 92°53'29"E2	The visiting team found that the plantation journal and record are properly maintained. The project is found satisfactory.
4.	Suanglawn ram, Zohmun Range	150 ha. 2021-22	*Michelia champacca, Gomari, Tectona grandis*	86%	5 ft	4°17'59"N 92°56'53"E	

3. Creation of Fireline (NPV)

Sl. No.	Location Village & Range	Area (in km) & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Tuirini to Khawruhlian, Khawruhlian Range	28.9 2021-22	23°55'13"N 92°49'50"E	It was found that fireline was actually created and is found to contain the uncontrol forest fire at the time of creation of fireline. But good natural vegetation covered the partial area.

4. Improvement/Upgradation of existing nursery with signboards,inspection path, repair of fencing etc. (NPV) (2021-2022)

Sl. No.	Location Village & Range	Physical target	Rate	Species raised	Comments/ Remarks
1.	Tuirini to Khawruhlian, Khawruhlian Range	LS	LS	*Tectona grandis, Toona ciliata,Gmelina arborea, Michelia champacca*	The CAMPA Nursery under Darlawn Division is well maintained. They are furnished with sufficient water supply and feed the the germinated seedlings as per the silviculture method. The nurseries are covered with Neflon nets. Nursery beds are made with cemented beds . The wall and the roof are furnished with iron rooftrust and iron frame works. Polypots are used for the Improvement of the quality and health of the seedlings.

5. Biodiversity Conservation at Rungdil (NPV):

Sl. No.	Location Village & Range	Area (in Ha) & Year	Species planted	Geo-co-ordi-nates	Comments/ Remarks
1.	Rungdil, Suangpuilawn Range	5 ha.	*Tectona grandis, Toona ciliata, Gmelina arborea*	23.9885° N 93.0012° E	The plantation is well maintained. The plantation journal/ record are displayed for the inspection . Signboards are erected and the site is well maintained from the fast growing vegetation.

CHAMPHAI FOREST DIVISION

1. Net Present Value (NPV) ANR Plantation (40 Ha.)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al &	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Mualzen zau ram Kelkang Champhai Range	5 ha. 2020-21	*Parkio timoriana, Artocarpus heterophylus, Emblica officinalis, Terminalia myriocarpa*	80%	5 ft	23°24'45.95"N 93°19'7.60"E	The plantation is well maintained and the survival rate is found to be satisfactory. Plantation journal and record are readily available. The health and growth of the plantation is satisfactory.
2.	Hnarsarih ram Farkawn Farkawn Range	5 ha. 2020-21	*Parkio timoriana, Artocarpus heterophylus, Emblica officinalis, Terminalia myriocarpa*	82%	5 ft	23°06'57"N 93°14'30"E	The monitoring team visited the actual site and found the signboards are still intact. Plantation journal and record are properly maintained.
3.	Mubu ram Khawbung Khawbung Range	5 ha. 2020-21	*Parkio timoriana, Artocarpus heterophylus, Emblica officinalis*	85%	6 ft	23°10'59"N 93°14'30"E	Plantation is found to be well established and all the requirement for the monitoring team is readily available.
4.	Darsam ram Khawhai Khawhai Range	5 ha. 2020-21	*Bisconofia javanica, Artocarpus heterophylus, Mangifera indica*	80%	5 ft	23°21'06"N 93°06'47"E	The plantation is likely to establish themselves. Plantation journal, cash book and record are properly maintained. Signboards are erected and inspection path and hut are constructed.
5.	Tinghmun ram N. Diltlang Hnahlan Range	5 ha. 2020-21	*Bisconofia javanica, Artocarpus heterophylus, Toona ciliata*	85%	6 ft	23°39'35"N 93°22'11"E	It is saddening to find that partial destruction of the plantation is noticed. But the implementing agency are doing their best to contain this practices. Official document are properly maintained.

6.	Hlingsi ngaw Neihdawn Khawzawl Range	5 ha. 2020-21	*Bisconofia javanica, Duabanga, Toona ciliata*	81%	7 ft	23°30'2.79"N 93°12'45.53"E	After site visiting the project is found to be successful. The plantation journal, record and cash book are well maintained.
7.	Bevuak Kawlkulh Kawlkulh Range	5 ha. 2020-21	*Bisconofia javanica, Duabanga, Toona ciliata*	76%	7 ft	23°38'54"N 93°04'23"E	The plantation is well maintained and ample care is given to the plantation. All official documents are maintained properly.
8.	Teikhang ram Teikhang Ngopa Range	5 ha. 2020-21	*Parkio timoriana, Artocarpus heterophylus, Michelia champaca*	74%	7 ft	23°56'55"N 93°18'41"E	The plantation is found to be free from encroachment. The implementing agency propely maintained the necessary documents.

2. Forest Fire Prevention (NPV) Creation of Fireline (57.8 km)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordinates	Comments/ Remarks
1.	Zohuata lo tlang, Champhai, Champhai Range	8.8 km 2021-22	23°24'45.95"N 93°19'7.60"E	It is found that the fireline created by the implementing agency is wide enough to contain the uncontrol forest fire. But the monitoring and evaluation work is done after a gap of 2 years. The fast growing vegetation already encompassed the fireline which is in need of slash and weeding.
2.	Kawipui ram, Farkawn, Farkawn Range	7 km 2021-22	23°06'57"N 93°14'30"E	
3.	Mubu ram, Khawbung, Khawbung Range	7 km 2021-22	23°10'59"N 93°14'30"E	
4.	Darsam ram, Khawhai, Khawhai Range	0 km 2021-22	23°21'06"N 93°06'47"E	
5.	Thangte dawh ram, Hnahlan, Hnahlan Range	7 km 2021-22	23°39'35"N 93°22'11"E	
6.	Chhumliam kawn pate, Ngawzau, Khawzawl Range	7 km 2021-22	23°30'2.79"N 93°12'45.53"E	
7.	Awmpui Tlang , Kawlkulh, Kawlkulh Range	7 km 2021-22	23°38'54"N 93°04'23"E	
8.	Sentezel ram, Ngopa, Ngopa Range	7 km 2021-22	23°56'55"N 93°18'41"E	

3. Maintenance of Nursery (2020-21):

Sl. No.	Location Village & RAnge	Total stocks	Geo-co-ordinates	Comments/ Remarks
1.	Mualzen Nursery, Mualzen, Champhai Range	3000	23°24'45.95"N 93°19'7.60"E	CAMPA Nursery signboards are erected depicting each an evey beds of different species. Iron roof trust are used for neflon roof and walls. Water tank are available to water the seedlings. The seedlings in the nursery are found to be in need of care and Horticultural medication.

4. PROTECTION AND MANAGEMENT OF BIODIVERSITY/BIOLOGICAL RESOURCE AT BIODIVERSITY PARK (NPV) 2020-21

Sl. No.	Location Village & RAnge	Name of Works	Comments/ Remarks
1.	Botanical Garden, Zotlang Hmunhlui, Champhai Range	Construction of RCC Gate & Fencing	The brick wall encompassed the area with an arch type of iron gateway. The site is well maintained from the destruction of the Village brats.
2.	Botanical Garden, Zotlang Hmunhlui, Champhai Range	Construction of RCC Water reservior tank & view shed	A beautiful view shed is constructed with RCC structural work which is laid upon the water reservior large enough to feed the environmental Biodiversity.

5. Nurseries 2ND Year Seedlings 2778 (2020-2021)

Sl. No.	Location Village & Range	No. seedlings	Species plant	Comments/ Remarks
1.	Range Comlex, Farkawn Range	626	*Perkia roxburghii, Terminalia myriocarpa, Artocarpa heterophylla, etc.*	The Campa Nursery is well equiped with the structural component for the proper requirement of nursery. Signboard indicating each an every Species is errected. Sufficient water is supplied to feed all nursery beds.
2.	Range Comlex, Khawbung Range	626	*Perkia roxburghii, Terminalia myriocarpa, Artocarpa heterophylla, etc.*	The visiting team found that nursery created three years back are still well maintained. Shaded roof, cemented seed beds, sufficient water supply and polypot are used for better germination of sedlings.
3.	Range Comlex, Ngopa Range	900	*Biscofia javanica, Artocarpa heterophylla Ligustrum robustrum, etc.*	The visiting team found that nursery created three years back are still well maintained. Shaded roof, cemented seed beds, sufficient water supply and polypot are used for better germination of sedlings.

4.	Range Comlex, Hnahlan Range	626	*Michelia champaca, Biscofia javanica, Alnus nepalensis, etc.*	It is found that nurseries are well maintained with signboards and placards are displayed to indicate each and every species that are still laid in the seed beds. Polypots are used to contain germinating seedlings for better health and care of.

6. Forest Fire Prevention (NPV) Maintenance of Fireline 8Km 2020-21

Sl. No.	Location Village & RAnge	Area & Year	Geo-co-ordinates	Comments/ Remarks
1.	Zohuata lo tlang, Champhai, Champhai Range	1 km 2021-22	23°24'45.95"N 93°19'7.60"E	Fireline is cut as per the requirment of the project by the implementing agency that is to be able to contain the uncontrol fire during the fire season. But the present appearanced is full of weeds and shrubs which need to re-surface.
2.	Kawipui ram, Farkawn, Farkawn Range	1 km 2021-22	23°06'57"N 93°14'30"E	
3.	Mubu ram, Khawbung, Khawbung Range	1 km 2021-22	23°10'59"N 93°14'30"E	
4.	Darsam ram, Khawhai, Khawhai Range	1 km 2021-22	23°21'06"N 93°06'47"E	
5.	Thangte dawh ram, Hnahlan, Hnahlan Range	1 km 2021-22	23°39'35"N 93°22'11"E	
6.	Chhumliam kawn pate, Ngawzau, Khawzawl Range	1 km 2021-22	23°30'2.79"N 93°12'45.53"E	
7.	Awmpui Tlang , Kawlkulh, Kawlkulh Range	1 km 2021-22	23°38'54"N 93°04'23"E	
8.	Sentezel ram, Ngopa, Ngopa Range	1 km 2021-22	23°56'55"N 93°18'41"E	

THENZAWL FOREST DIVISION

1. Net Present Value (NPV) ANR Plantation (40 ha.)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Chhipphir Tlang Chhipphir Thenzawl Range	40 ha. 2020-21	*Prunus cerasoides, Ligustrum robustum, Michelia champaca, Ficus bengalensis, etc.*	79%	4.5 ft	22°94'9.52"N 92°47'4.42"E	The monitoring team found that the implementing agency follow ANR method of creation. Plantation journal,record and cash book are properly maintained and are readily available at the time of visiting.

2. Forest Fire Prevention & Control (NPV): 8 km

Sl No.	Name of Range	Location	Geo-co-ordinates	Comments / Remarks
1.	Thenzawl	Mulen Tlang	23°29'73"N 92°69'15"E	Peripheral appearance indicated that the bushes and shrubs are cleared for fire line. The fast growing natural vegetation almost cover the whole area of fireline. The inspecting team suggested that the line may be maintained to contain forest or bush fire in future.
2.	Serchhip	Lungrual ngaw	22°94'9.52"N 92°47'4.42"E	

2. Maintenance of Nursery 2nd & 3rd Weeding 2020-2021:

Sl No.	Location Village & Range	Area & Year Seedlings	Survival Rate	Average Height	Comments/ Remarks
1.	Chalkhan, Serchhip Range	2020-21 2778 Nos	NA	NA	The over all condition of Nursery, mode of creation, water supply, shade roof with supporting wall of iron post, seed beds, health and growth of seedlings is satisfactory. But, Horticultural medication is recomended for better growth of seedlings. Sign board, placard boards are displayed to indicate each and every species that are still kept in polypots.

4. Forest Fire Prevention (NPV) : Creation of Fireline (28.9 km)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Khawibel phul, Thenzawl, Thenzawl Range	3 km 2021-22	30°27'56.01"N 92°75'32.29'E	The monitoring team found that the formation of fire line is wide enough to control forest fire at the time of cutting the line. But the fast growing vegetation almost camouflage the fire line which is barely visible after careful inspection. If need is arise for future use of fireline, it is recommended that the line may be cleared of all weeds and fallen leaves .
2.	Serchhip roadside, Serchhip Range	3 km 2021-22	23°20'42.47"N 92°51'13.73"E	
3.	Sawhchet kam , Sialsuk Range	4.9 km 2021-22	23°23'37.17"N 92°45'31.36"E	
4.	Pamtul mual, Mualthuam Range	3 km 2021-22	23°06'16.78"N 92°44''57.08"E	
5.	Kulhbing ngaw, Chhingchhip Range	3 km 2021-22	23°27'34"N 92°51'01"E	
6.	Bawlhhlawh paihna mual, Buarpui Range	3 km 2021-22	23°16'07"N 92°39'15'E	
6.	Lena vau hrul, Laisawral, Bunghmun 'S' Range	3 km 2021-22	23°15'46"N 92°25'48"E	
8.	Mausen ram, Thenhlum Range	3 km 2021-22	23°11'51"N 92°33'05"E	
9.	Vaituk ram, Bungtlang range	3 km 2021-22	23°'19.02"N 92°53'48.03"E	

5. Net Present Value (NPV) Nurseries : 2nd Year Seedlings

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Chalkhan, Thenzawl, Thenzawl Range	0.54 Ha. 2020-2021	23°16'28"N 92°46'13.10"E	All nurseries have good and sufficient water supply from the water reservior. Each seed beds received adequate water supply moistering the seed beds. Nursery beds are made with cemented floor and iron roof trust are erected to held the shaded roof. Polypots are used for hygenic germination – health and growth of seedlings are satisfactory.

KOLASIB FOREST DIVISION

1. 400 KV Transmission line (CA) : 5th Year maintenance

Sl. No.	Location Village & RAnge	Area & Year	Species Planted	Sur-Viv al &	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1	Tlangpui lian, Phaisen, Buhchang Forest Range	198 Ha. 2021-22	*Tectona grandis, Michelia champaca, Bischofia javanica, etc.*	81	25 ft	24°24'24.90" N 92°40'11.923''E	The monitoring team visited the plantation site and found that the plantation is done as per the silviculture method. The plantation is well maintain, signboards are displayed. Plantation, record and cash book are properly maintained.
2.	Phulraw lian kawn, Bukpui, Bukpui Forest Range	200 Ha. 2021-22	*Michelia champaca, Bischofia javanica, etc.*	80	22 ft	24°6'41.014" N 92°45'59.908''E	The plantation well maintain, the average height indicated that the atmospheric condition is suitable for planatation. Journal, cash book are well maintained.
3.	Arkhuanglo ram, Kawnpui, Kawnpui Forest Range	180.062 Ha. 2021-22	*Michelia champaca, Parkia speciosa, Artocarpus chaplasam, etc.*	82	22 ft	23°57'41.6" N 92°37'47.6"E	The visiting team found that the plantation is well maintained and satisfactory. The height and health indcated that the plantation is well nurtured and maintained journal properly.
4.	Chemlui kam , Kolasib, Kolasib Forest range	190 Ha. 2021-22	*Michelia champaca, Bischofia javanica, etc.*	77	23 ft	24°13'37.4" N 92°43'26.5''E	The new signboards are displayed for the visiting team. The plantation suited humid condition of the area. The plantation growth is favourably satisfactory and the actual height of some plantation looked to be more than 25 ft. The plantation journal/ record are properly maintained.

2. Tuirial HEP (CATP): 1st Year Maintenance

Sl. No.	Location Village & RAnge	Area & Year	Species Planted	Sur-Viv al &	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1	Uikaih Lui, Bukpui, Bukpui Forest Range	130 Ha. 2021-22	*Bischofia javanica, Michelia champaca, Duabanga grandiflora,*	72	7 ft	24°5'12.986" N 92°50'25.823''E	The plantation look favourably healthy and growth is satisfactory. Signboards are newly errected. Plantation Journal/record and cash book are properly maintained.
2.	Thohuang Tlang, N.Hlimen, N.Hlimen Forest Range	85 Ha. 2021-22	*Michelia champaca, Gmelina arborea, etc.*	75	9 ft	24°16'47.54" N 92°50'52.295''E	The plantation look favourably healthy and growth is satisfactory. Signboards are still intact. Plantation Journal/record and cash book are properly maintained.
3.	Suarhliap Ram, Saipum Saipum Forest Range	85 Ha. 2021-22	Michelia champaca, Duabanga grandiflora, etc.	71	7 ft	24°18'14.69" N 92°50'0.37''E	The plantation is well maintain and the fast growing vegetation do not hampered the growth of the plantation. Signboards are still intact. Plantation Journal/record and cash book are properly maintained.

3. Tuirial HEP (CATP): 4th Year Maintenance

Sl. No.	Location Village & RAnge	Area & Year	Species Planted	Sur-Viv al &	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Uikaih Lui, Bukpui, Bukpui Forest Range	100 Ha. 2021-22	*Bischofia javanica, Michelia champaca, Duabanga grandiflora,*	76	15 ft	24°5'12.986" N 92°50'25.823''E	The plantation maintenance is well done and satisfactory. Signboards are displayed. Plantation journal/record and cash book are properly maintained
2.	Thohuang Tlang, N.Hlimen, N.Hlimen Forest Range	100 Ha. 2021-22	*Michelia champaca, Gmelina arborea, etc.*	77	15 ft	24°16'47.54" N 92°50'52.295''E	The plantation signboards are properly displayed. The height of the plantation indicated that health and growth is favourable and cimate suited the plantation and maintained Plantation documents.

3	Suarhliap Ram, Saipum Saipum Forest Range	100 Ha. 2021-22	*Michelia champaca, Duabanga grandiflora, etc.*	71	16 ft	24°18'14.69" N 92°50'0.37''E	The plantation site maintenance is well done and satisfactory. Signboards are displayed. Plantation journal/record and cash book are properly maintained

4. 400 KV Transmission Line (Dwarf Plantation): 5th Years Maintenance

Sl. No.	Location Village & RAnge	Area & Year	Species Planted	Sur-Viv al &	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1	Vakultui, Vairengte, Vairengte Forest Range	4 Ha. 2021-22	*Jacaranda, Phyllanthus emblica L*	73	5 ft	24°23' 49" N 92°43'10''E	Though the plantation is designated as dwarf planation, but the plantation suited the climate and the fertile soil indicating the saplings suited more than expectation. The species selected for the plantation is as per the guideline of the project.
2.	Kharzawl, N.Chhimluang, Bilkhawthlir, Bilkhawthlir Forest Range	4 Ha. 2021-22	*Michelia champaca, Gmelina arborea*	71	6 ft	24°23'24.99" N 92°43'15.71''E	The dwarf species is actually planted here and the project fulfilled implementing agency expectation as envisage from the creation of the plantation. The plantation site maintenance is well done and satisfactory. Signboards are displayed. Plantation journal/ record and cash book are properly maintained.
3.	Chhungbawnga Camp Luikam, Kolasib Forest Range	6 Ha 2021-22	*Michelia champaca, Gmelina arborea,*	77	5 ft	24°17'15.9" N 92°42'0.5''E	The dwarf species is actually planted here and the project fulfilled implementing agency expectation as envisage from the creation of the plantation. The plantation site maintenance is well done and satisfactory. Signboards are displayed. Plantation journal/ record and cash book are properly maintained.

4.	Arkhuanglo Ram, kawnpui, Kawnpui Forest range	7.5 Ha. 2021-22	*Jacaranda, Ferul moschta*	76	5 ft	24°49'14.3" N 92°40'59.8''E	The plantation is well maintained with new sign board and the species health condition needs to be taken care of. Rampant cutting of young saplings is practiced by the nearby villages. Tight security and vigilance is needed for the safety of the plantation. Plantation journal/record and cash book are properly maintained.

5. Forest Fire Prevention (NPV) : Creation of Fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordinates	Comments/ Remarks
1.	Kolasib Forest Range	4.9 Km & 2021-22	24°15'6.3" N 92°41'31.36''E	The monitoring team found that the formation of fire line is wide enough to control forest fire at the time of cutting the line. But the fast growing vegetation almost camouflage the fire line which is barely visible after careful inspection. If need is arise for future use of fireline, it is recommended that the line may be cleared of all weeds and fallen leaves .
2.	Kawnpui Forest range	3 Km & 2021-22	24°59'22.18" N 92°42'16.39''E	
3.	Vairengte Forest Range	3 Km & 2021-22	24°28'48.70" N 92°45'22.55''E	
4.	Bilkhawthlir Forest Range	3 Km & 2021-22	24°20'54.90" N 92°43'40.97''E	
5.	Buhchang Forest Range	3 Km & 2021-22	24°20'56.44" N 92°40'24.18''E	
6.	Bairabi Forest Range	3 Km & 2021-22	24°10'40.82" N 92°33'16.85''E	
7.	Saipum Forest Range	3 Km & 2021-22	24°21'32.64" N 92°50'2.69''E	
8.	N.Hlimen Forest Range	3 Km & 2021-22	24°14'33.10" N 92°48'36.93''E	
9.	Bukpui Forest Range	3 Km & 2021-22	24°4'27.90" N 92°47'28.45''E	

6. Improvement/Upgradation of Existing Nursery with Signboards, Inspection path, Repair of Fencing, etc.(NPV)

Sl. No.	Location Village & Range	Geo-co-ordinates	Comments/ Remarks
1.	Nursery, Project Veng , Kolasib, Kolasib Forest Range	24°13'2.86" N 92°40'23.87''E	After visiting the project site, the team found that sign boards, inspection path and fencing is done properly. The maintenace put up by the implementing agency is commendable. Record and cash book are well maintained.

7. Construction Of New Forest Checkgate (NPV)

Sl. No.	Location Village & Range	Geo-co-ordinates	Comments/ Remarks
1.	Phainuam checkgate, Vairengte Forest Range	24°28’15.29” N 92°46’54.23’’E	Forest checkgate is constructed, painted with Forest Department colours. Signboard is erected. Since the road is not frequented by vehicles heavily, regular personel duty is not required.

MAMIT FOREST DIVISION

1. Forest Fire Prevention (NPV) : Creation of Fireline (28.9 km)

SL. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Zongaw Reserve, Mamit Range	8.9 km 2021-22	35°51'17.42"N 92°29'41.27"E	The monitoring team found that the creation of fire line is wide enough to control forest fire at the time of cutting the line. But the fast growing vegetation almost camouflage the fire line which is barely visible after careful inspection. If need is arise for future use of fireline, it is recommended that the line may be cleared of all weeds and fallen leaves. The monitoring team felt that permanent fireline is not necessary as the cultivators still practiced shifting cultivation in this area.
2.	Y.M.A Park hnuai Rawpuichhip, Rawpuichhip Range	4 km 2021-22	23°47'33"N 92°33'47"E	
3.	Tuilut kam Lengpui, Lengpui Range	4 km 2021-22	35°51'25"N 92°37'33"E	
4.	Thual thu Kanghmun, Kanghmun Range	4 km 2021-22	23°33'40.017"N 92°42'26.067"E	
5.	Phullu, Saithah Range	0.5 km 2021-22	23°33'41.5"N 92°27'30.9"E	
6.	Office Compound,, Saithah Range	0.5 km 2021-22	23°34'58"N 92°26'43"E	
7.	Roadside Saithah, Saithah Range	3 km 2021-22	23°34'52"N 92°26'18'E	
8.	Ramrikawn Marpara, Marpara Range	4 km 2021-22	23°26'56"N 92°25'34"E	

2. Improvement/ upgradation of existing forest nurseries with signboard, inspection paths, repair of Fencing, weeding etc. (NPV) APO 2021-2022

SL. No.	Location Village & Range	Phy. Target	Geo-co-ordi-nates	Comments/ Remarks
1.	Division Comlex, Mamit Range	0.28 ha.	23°54'9.99"N 92°29'39.59"E	The monitoring team found that the nurseries are well maintained with a new signboards, inspection path in and around the nurseries. Trimming of weeds around the nurseries are done periodically. Sufficient water is supplied to all the nursery beds from the nearby water reservior.

3. Catchment area treatment fot management of Bio diversity : Lidar based Project (NPV) APO (2021-2022)

A. Plantation : ANR (Aided Natural Re-Geneation)

SL. No.	Location Village & Range	Area & Year	Species planted	Survi-val %	Avg. Height	Geo-co-ordi-nates	Comments/ Remarks
1.	Tuidai Khawhlui (Teirei kam), Mamit Range	40 ha.	*Bischofia javanica, Toona ciliata, Michelia champacca, Artocarpus chaplasa*	80 %	77 cm	23°58'58.78"N 92°25'37.47"E	Silviculture system of plantation is applied for Biodiversity Conservation in this area. ANR plantation is found to be adaptable and growth of saplings are satisfactory. Standard spacing of plantation pit is maintained. Plantation journal and cash book are properly maintained.

B. Construction of Gabion Structure:

SL. No.	Location Village & Range	No. of Construction	Geo-co-ordi-nates	Comments/ Remarks
1.	Khan kawn chilui, Mamit Range	16	23°57'51.63"N 92°27'55.71"E	Gabion structure are made with hard stones at the narrow stream to be able to hold the seasonal rivulets . Other gabion structure are constructed as a type of wall protecting the landslide prone area.

C. Construction of Contour Trenches :

SL. No.	Location Village & Range	Nos of Construction	Geo-co-ordi-nates	Comments/ Remarks
1.	Tuidai khaw chung (Teirei lui kam), Mamit Range	2000	23°58'59.87"N 92°25'49.59"E	The team found that construction of contour trenches is in line with agricultural Department norms. The trench are constructed in such away to withhold top fertile soil and preventing severe erosion. The sole purpose of the contour trenches is to capture water during rainy season. They are well maintained and likely to serve the purpose of construction.

4. Net Present Value (NPV) ANR Creation (60 Ha. Year - 2020-2021 APO

SL. No.	Location Village & Range	Area & Year	Species planted	Sur-Vival %)	Avg. Height	Geo-co-ordi-nates	Comments/ Remarks
1.	W. Serzawl, Lengpui Range	30 ha.	*Homalomena aromatica, Michelia champacca*	75%	2 ft	23°34'13"N 92°37'42"E	The selected site is suitable for the creation of plantation and the method applied is up to the standard norms. Health and growth of species planted are satisfactory. The plantation path, journal, record, and cash book are properly maintained.
2.	Pukzing (BSF Mual), Marpara Range	30 ha.	*Homalomena aromatica, Emblica officianalis*	80%	1.2 ft	23°20'25"N 92°25'40"E	Visiting the plantation site enable to adjudge Monitoring Team to grade the creation of ANR accurately. Area alloted by the authority is surveyed carefully before hand. Site for the plantation are cleared of all weeds then seedlings are planted in the pit at a standard spacing. Journal/ record and cash book are maintained properly.

5. Forest Fire Prevention & Control (NPV) : Maintenance of fire

SL. No.	Location Village & Range	Area & Year	Geo-co-ordinates	Comments/ Remarks
1.	Pukzing, Saithah Range	20 km 2020-21	23°21'26"N 92°25'42"E	Traces of fireline is still visible and they are not well maintained because villages around this area still practice shifting jhum cultivation.

6. Net Present Value (NPV) Nurseries: 2nd Year Seedlings (2020-2021)

SL. No.	Location Village & Range	No. of seedlings	Geo-co-ordinates	Comments/ Remarks
1.	Balhlakawn tuahzawl, Rawpuichhip Range	11667	23°4539"N 92°33'33"E	The over all condition of nursery, mode of creation, water supply, shaded roof with supporting wall of cemented bricks, iron post, seed beds, health and growth of seedlings are satisfactory. But, Horticultural medication is recommended for better growth of seedlings. Sign board, placard board are displayed to indicate each and every species that are still kept in polypots.

KAWRTHAH FOREST DIVISION

1. Forest Fire Prevention (NPV) : Creation of Fireline (2021-22)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Aisih Ram, Kawrthah Range	8.6 km 2021-22	23°57'37.8"N 92°22'1274"E	Traces of Fireline created two years before is still visible. Fast growing vegetation covered amost all the firelines. Maintenance works is not noticeable. If need arises for future usage proper maintenance is recommended.
2.	Dumping Ground bul, Bungthuam, Kanhmun Range	5.85 km 2021-22	24°1'50.12"N 92°19'40.82"E	
3.	Mauhak Ram, Kawrte Thawveng Range	8.6 km 2021-22	23°52'14"N 92°22'24"E	
4.	Lungkulh RF, Zamuang Range	5.85 km 2021-22	24°8'52.18"N 92°24'16.27"E	

2. Improvement/upgradation of existing nursery with signboards, inspection path, repair of fencing etc.(NPV)

Sl. No.	Location Village & Range	Work Description	Species raised	Geo-co-ordi-nates	Comments/ Remarks
1.	Darlak nursery, Kawrthah Range	Maintenance of nursery	Michelia champacca, Bischofia javanica, Terminalia myriocarpa, Toona ciliata	23°54'22.6'N 92°25'07.9"E	After visiting nursery site the first impresion is the signboards indicating CAMPA nursery. Smaller sign boards are erected to each species in the seed beds.

3. Biodiversity Conservation at Rengdil Lake(NPV)

Sl. No.	Location Village & Range	Name of work	Geo-co-ordi-nates	Comments/ Remarks
1.	Lungkulh RF (Rengdil) , Zamuang Range	Construction of bridge	24°07'43.9"N 92°24'28.9"E	For the Conservation of Biodiversity at Rengdil Lake, Four bridges are made joining the other side of the bank for easy accesible made up with RCC structure. The bridges and the Lake itself is well maintained and ample care is given for conservation as well as to attract visitors.

4. Cathment area treatment for management of Biodiversity : Lidar Based Project (NPV)

A. Plantation : Artificial regeneration

Sl. No.	Location Village & Range	Phy. / Ha.	Species Planted	Avg. Height (in feet)	Geo-co-ordi-nates	Comments/ Remarks
1.	K. Sarali ram (R.Teirei catchment) Kawrthah Range	29.95	Michelia champacca, Bischofia javanica, Terminalia myriocarpa, Toona ciliata	4 - 5 ft	23°58'38.18"N 92°25'23 .52"E	The objective of the project is ecological restoration and Environmental Conservation through Artificial Regeneration. At the beginning plantation sites are cleared of weeds and unwanted growth and seedlings were planted in the pits at a standard spacing. Surrounding areas within a radius of about 1 metre around the sapling is cleared of all weeds after two months of plantation. Plantation journal and cash book are properly maintained.

B. Farm Ponds

Sl. No.	Location Village & Range	Phy. / Ha.	Ponds Area/size	Geo-co-ordi-nates	Comments/ Remarks
1.	Zonunsiama huan, Kawrthah Range	Nos	Approx : Depth 6 ft length 8 ft Breadth 5 ft	24°0'7.891"N 92°23'59.04"E	Farm ponds are created with a RCC structure, each farm pond is large enough to hold a capacity of 2000 litres of water. The monitoring team found that the water are still kept in the ponds for the utility of the farmers. On the cemented wall, the nature of pond, litre capacity, construction date and cost of construction etc, are incribed.
2.	Zampuii Vau luite, Kawrthah range,			23°54'12.62"N 92°23'32.06"E	
3.	Suchena huan, Kawrthah Range			23°59'00.4"N 92°25'17.9"E	
4.	Sarali khawbul, Kawrthah Range			23 °59'06.2"N 92°23'24.8"E	
5.	Sihthiang main Road side, Zamuang Range			24°04'14.9"N 92°27'16.5"E	The monitoring team found that farm ponds are constructed in a nearby perenial stream used by the viilagers. Water overflow from the villages Wells are canalise to farm pond for utilisation of Biodiversity. Date and cost of construction, litre capacity are inscribed on the cemented bricks of the pond's wall.
6.	Sihthiang tuikhur bul, Zamuang Range			24°03'21.4"N 92°27'01.4"E	
7.	R. Teirei kam , Zamuang Range			24°04'35.8"N 92°27'59.9"E	

C. Gabionic Checkdam

Sl. No.	Location Village & Range	Phy. /Ha.	Geo-co-ordi-nates	Comments/ Remarks
1.	Gomari plantation luite, Kawrthah Range	5 Nos.	23°58'32"N 92°25'21"E	The monitoring team visited the check dam site and found that Gabion wall are constructed with Cubic stone arranged in such away to be able to hold the onslaught torren of water. Gabion wall joint two side of the streams. The check dam is utilised to feed the necessary Bio mass .
2.	J.Muana vau luite, Kawrthah Range		23°58'32"N 92°25'5"E	
3.	Bakpuk luite, Kawrthah Range		24°00'57.978"N 92°22'47.905"E	
4.	Joshua vau luite, Kawrthah Range		23°59'13.999"N 92°25'58.442"E	
5.	Sarali khawhlui luite, Kawrthah Range		23°58'12.288"N 92°25'19.326"E	
6.	Sihthiang lui, Zamuang Range	5 Nos.	24°04'00.2"N 92°27'06.6"E	The monitoring team visited the check dam site and found that Gabion wall are constructed with Cubic stone arranged in such away to be able to hold the onslaught torren of water. Gabion wall joint two side of the streams. The check dam is utilised to feed the necessary Bio mass. The project main aim is to conserved soil erosion and protection of land degradation.
7.	Sihlui , Zamuang Range		24°04'24.9"N 92°27'37.4"E	
8.	Lalsiama vau luite 1, Zamuang Range		24°04'43.6"N 92°27'43.1"E	
9.	Lalsiama vau luite 2, Zamuang Range		24°04'44.2"N 92°27'46.3"E	
10	Ramlailui, Zamuang Range		24°03'4.3"N 92°27'56.2"E	

5. Aidded Natural Regeneration (NPV): Creation (50 Ha.)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Geo-co-ordi-nates	Comments/ Remarks
1.	Tumpang lui, Kawrthah Range	20 ha. 2020-21	Michelia champacca, Bischofia javanica, Terminalia	23°55'22.95"N 92°19'52.23"E	Land alloted by the authority for the plantation is surveyed carefully before hand . Site for plantation are marked, clearing of all weeds and unwanted growths, and then seeding were planted in the pits at a standard spacing. Maintenance of work like cutting down the fast growing weeds are done periodically. Signboards are displayed, plantation path and hut are constructed. Plantation journal and cash book are properly maintained.
2.	Darlak ram (road side), Kawrthah Range	10 ha. 2020-21	Bischofia javanica, Terminalia myriocarpa, Toona ciliata	23°54'94.94"N 92°22'13.85"E	
3.	Mauhak mual , Bungthuam, Kanhmun Range	10 ha. 2020-21	Toona ciliata, Michelia champacca, Bischofia javanica, Terminalia myriocarpa	24°11'36.24"N 92°20'19.01"E	
4.	Sailut ram, Mualthuam, Kawrtethawveng range	10 ha. 2020-21	*Prunus cerasoides, Ligustrum robustum, Michelia champaca, Ficus bengalensis*	23°51'38"N 92°19'07"	
5.	Rengdil kam, Lungkulh, Zamuang Range	10 ha. 2020-21	*Ligustrum robustum, Michelia champaca,*	24°08'29.6"N 92°24'32.4"E	

6. Forest Fire Prevention (NPV)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Kawrthah Range	5 km 2020-21	23°5735.769”N 92°22’17.750”E	Traces of fireline are still visible, indicating that the line is adequate to withhold the raging forest fire at the time of forest fire season. The present condition of the fire line is pathetic and needs periodical clearance for future usage.
2.	Kanhmun Range	5 km 2020-21	24°15’02.47”N 92°17’53.06”E	
3.	Kawrtethawveng Range	5 km 2020-21	24°07’42.6”N 92°24’25.4”E	

7. Nurseries (NPV): 2nd year Seedlings

Sl. No.	Location Village & Range	No. of Seedlings	Species Raised	Geo-co-ordi-nates	Comments/ Remarks
1.	Kawrthah Range	6000	Michelia champacca, Bischofia javanica, Terminalia myriocarpa, Toona ciliata	23°54’22.6”N 92°25’07.9”E	It was found that noticed board are proudly displayed indicating name and number of species that are still laid on the seed beds. Water supply is good enough for the whole section of the nurseries.
2.	Kanhmun Range	3444	Toona ciliata, Michelia champacca, Bischofia javanica, Terminalia myriocarpa	94°15’03.79”N 92°17’51.17”E	It was found that noticed board are proudly displayed indicating name and number of species that are still laid on the seed beds. Water supply is good enough for the whole section of the nurseries. Condition of the seedlings is healthy and growth is remarkable well. Polypots are used for healthy condition of the germinating seedlings. Neflon nets with iron roof trust is used to shade the nurseries.

LUNGLEI FOREST DIVISION

1. Compensatory afforestation (CA) Plantations: 3rd Year Maintenance

CA Bridge over Kawrawng lui (0.2424)							
Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Thingfal ram Thingfal Tawipui Rang	0.2424 2021-22	*Michelia champacca, Toona ciliata,*	83%	4 ft	23°29'73"N 92°69'15"E	After visiting the actual site the team are enable to grade the plantation accurately. Sign boards are diisplayed. Health and growth of the plantation is remarkably well. The plantation needs ample care for periodically weeding. Plantation journal and cash book are available for inspection.

2. Net Present Value (NPV) ANR Plantations (60 ha.) :

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Arthladawn ram Zobawk Lunglei Range	20 ha. 2020-21	*Michelia champacca, Prunus cerasoides, Emblica officinalis*	78%	7 ft	22°57'14"N 92°49'15.38"E	The plantation is well maintained and the survival rate is found to be satisfactory . Plantation journal and record are readily available. The health and growth of the plantation is satisfactory.
2.	Tuiphir ram S. Vanlaiphai S. Vanlaiphai Range	10 ha. 2020-21	*Michelia champacca, Toona ciliata, Prunus cerasoides,*	80%	6 ft	22°47'45.71"N 93°01'38.05"E	The plantation is likely to well establish themselves . Plantation journal, Cashbook and record books are properly maintained. Signboards are erected and inspection path are constructed.
3.	Khawhlui tlang hnuai Mausen Haulawng Range	10 ha. 2020-21	*Michelia champacca, Terminalia myriocarpa, Emblica officinalis, Oxylum indicum*	73%	8 ft	23°00'41.88"N 92°45'55.40"E	Plantation is found to be well established and all the requirement for the monitoring team is readily available.
4.	Tuitai tlangliam Denlung Hnahthial Range	10 ha. 2020-21	*Michelia champacca, Terminalia myriocarpa, Emblica officinalis*	85%	7 ft	22°57'51"N 92°54'51"E	The plantation is found to be free from encroachment. The implementing agency propely maintained the necessary documents.

5.	Kanghreng ram Tawipui N-I Tawipui Range	10 ha. 2020-21	*Michelia champacca, Emblica officinalis, Toona ciliata*	84%	8 ft	22°42'25.48"N 92°50'50.27"E	It is saddening to find that partial destruction of the plantation is noticed. But the implementing agency are doing their best to contain this practices. Official document are properly maintained.

3. Improvement/Upgradation of existing nursery with signboard, inspection path, repair of fencing etc. (NPV): Year (2021-2022)

Maintenance of Nursery (2021-2022)			
Sl. No.	**Location Village & Range**	**Species raised**	**Comments/ Remarks**
1.	Pukpui Hightech Nursey Lunglei Range	*Micheliac Champacca, Terminalia myriocarpa, Emblica officinalis, Oxylum indicum, Parkia timoriana, Duabanga grandiflora, Lagerstroemia speciosa*	CAMPA Nursery signboards are erected depicting each an evey beds of different species. Iron roof trust are used for neflon roof and walls.Water tank are available to water the seedlings. The seedlings in the nursery are found to be in need of care and Horticultural medication.
2.	Range Complex Hnahthial Range		
3.	Tualthu Tawipui Range		

4. Forest Fire Prevention Prevention (NPV) : Creation of Fireline (28.9 km)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Arthladawn ram, Zobawk Lunglei Forest Range	28.9 km 2021-22	22°50'50.17"N 92°49'21.36"E	The monitoring team found that the formation of fire line is wide enough to control forest fire at the time of cutting the line. But the fast growing vegetation almost camouflage the fire line which is barely visible after careful inspection. If need is arise for future use of fireline, it is recommended that the line may be cleared of all weeds and fallen leaves.

5. Forest fire Prevention & Control (NPV) : Maintenance of fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Arthladawn ram, Zobawk Lunglei Forest Range	20 km 2020-21	22°50'50.17"N 92°49'21.36"E	It is found that the fireline created by the implementing agency is wide enough to contain the uncontrol forest fire. But the monitoring and evaluation work is done after a gap of three years. The fast growing vegetation already encompassed the fireline which is in need of slash and weeding.

6. Net Present Value (NPV) Nursery: 2nd Year Seedlings

Sl. No.	Location Village & Range	Area & Year	Species raised & No. of Seedlings	Geo-co-ordi-nates	Comments/ Remarks
1.	Hightech Nursery Pukpui Lunglei Forest Range	1.5 ha. 2020-21	*Michelia champacca, Cinnamomum verum, Bischofia javanica , Aquilaria malaccensis* (4800)	22°56'46.76"N 92°44'24.00"E	The over all condition of Nursery, mode of creation, water supply, shade roof with supporting wall of iron post, seed beds, health and growth of seedlings is satisfactory. Sign boards are displayed to indicate each and every species that are still kept in polypots.

N. VANLAIPHAI FOREST DIVISION

1. Net Present Value (NPV) ANR Plantations (45 ha.)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Ramri kawn, N.Vanlaiphai Range	20 ha. 2021-22	*Michelia champacca, Prunus serasoides, Bischofia javanica, bauhinia variegata, Terminalia myriocarpa*	75%	5 ft	23°63'7.76"N 93°43'0.17E	The monitoring team visited the site and found that the area is covered by grass. But the seedlings already survive and above the unwanted shrubs. Signboards are erected and maintained journal properly.
2.	Lenphul, N.Vanlaiphai Range	5 ha. 2021-22	*Prunus serasoides, Michelia champacca, Terminalia myriocarpa*	78%	4 ft	22°57'44.88"N 93°42'7.22 E	The monitoring team found that the plantation is suitable for the selected species. Signboards are displayed.
3.	Lenhmui tlang, E.Lungdar Range	5 ha. 2021-22	*Bischofia javanica, Prunus serasoides, Michelia champacca, Bischofia javanica,*	80%	4 ft	23°17'21.23"N 93°05'25.27"E	Species selected for this plantation is suitable and growth is satisfactory. Signboards are displayed, record and journal properly maintained.
4.	Thaitui kam, Thingsai Range	5 ha. 2021-22	*Terminalia myriocarpa, Prunus serasoides, Michelia champacca*	87%	5 ft	23°35'20.32"N 93°45'50.46"E	Climatic condition and the fertility of soil suited favourable. The plantation survival rate is satisfactory and signboards are displayed. Plantation journal, record and cash book are properly maintained.
5.	Thinghmun, Ngharchhip, Cherhlun Range	5 ha. 2021-22	*Emblica officinalis, Terminalia myriocarpa,*	85%	4 ft	22°42'25.48"N 92°50'50.27"E	Fast growing natural vegetatation almost hampered the growth and survival of the plantation but the plantation seem to establish themselves as expected. Signboards are displayed and journal is maintained properly.

6.	Vanghmun, Chawngtui Range	5 ha. 2021-22	*Toona ciliata, Emblica officinalis, Bischofia javanica*	81%	5 ft	23°3'15.581"N 93°0'54.83"E	Visiting tam found that the area is covered by unwanted shrub. It is recommmended that weeding and slash is necessary for the better survival of plantation. Journal and record are properly maintained. New signboards are erected.

2. Improvement/Upgradation of existing nursery with signboard, inspection path, repair of fencing etc. (NPV): Year (2020-2022)

Sl. No.	Location Village & Range	Name of work	Physical Target	Comments/ Remarks
1.	N. vanlaiphai Nursery, N.Vanlaiphai Range	Maintenance of nursery	LS	N. Vanlaiphai range nursery is well equipped with the fencing, signboards, inspection path as directed by the CAMPA guidelines. Fencing is done with iron net, neflon nets are used for shades, water supply is sufficient. Signboards and Placards are displayed to each species in the seed beds.

3. Forest Fire Prevention (NPV) : Creation of Fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Naubankhai, N.Vanlaiphai Range	2 km 2021-22	23°07'56.17"N 93°03'55.15"E 22°57'44.88"N 93°42'7.22 E	Firelines created by the ranges are still visible though the area is under tropical rain forest. For future use fireline may be clear of unwanted shrub and fallen leaves.
2.	Hnumtlang, N.Vanlaiphai Range	1 km 2021-22		
3.	Tlakal, N.Vanlaiphai Range	2 km 2021-22		
4.	Bualchar, N.Vanlaiphai Range	2 km 2021-22		
5.	Leimawi, N.Vanlaiphai Range	0.9 km 2021-22		
6.	Chhura ruang tluk, N.Vanlaiphai Range	1 km 2021-22		
7.	Thilte sih, E.Lungdar Range	5 km 2021-22	23°17'21.23"N 93°05'25.27"E	Traces of fireline may be noticed after visiting the site. Fast growing vegetation almost covered the whole section of firelines. It is recommended that fire line may be maintained properly.

8.	Chinai khur kawng, Thingsai Range	3 km 2021-22	23°35'20.32"N 93°45'50.46"E 22°56'00"N 93°06'00"E	Traces of Fireline created 2 years before is still visible. Fast growing vegetation covered amost all the firelines. Maintenance works is not noticeable. If need arises for future usage proper maintenance is recommended.
9.	Thip tuikhur kawng, Thingsai Range	2 km 2021-22		
10.	Ngirtlu pang, Cherhlun Range	2 km 2021-22	22°42'25.48"N 92°50'50.27"E	Traces and creation of firelines is still visible and they are wide enough to contain the flaming forest fires. The forest fireline would be able to douse forest fire if need arises.
11.	Tiau kawng, Cherhlun Range	1 km 2021-22		
12.	Ramri kawr, Cherhlun Range	1 km 2021-22		
13.	Kelbuh mual, Cherhlun Range	1 km 2021-22		
14.	Chhuahkhel, Chawngtui Range	1.5 km 2021-22	23°3'15.581"N 93°0'54.83"E	It was found that fireline was actually created and is found to contain the uncontrol forest fire at the time of creation of fireline.
15.	Kawipui, Chawngtui Range	2.5 km 2021-22		
16.	Rawhuai puk Chawngtui Range	1 km 2021-22		

4. Forest Fire Prevention & Control (NPV) : Maintenance of fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	N.Vanlaiphai to Aizawl Road, N.Vanlaiphai Range	5 km 2020-21	22°57'44.88"N 93°42'7.22 E	Maintenance of fireline activities is not noticed here in this area. It is recommended that maintenance should be done delegently as per the expectation of the project components.
2.	N.Vanlaiphai to Bawktlang road, N.Vanlaiphai Range	5 km 2020-21	23°07'56.17"N 93°03'55.15"E	
3.	Thinghsai to Tumtu kawn, Thingsai Range	5 km 2020-21	22°56'00"N 93°06'00"E	

5. Net Present Value (NPV) Nurseries: 2nd Year Seedlings

Sl. No.	Location Village & Range	Total Stocks (2nd year seedlings)	Species raised	Comments/ Remarks
1.	Forest Complex, N.Vanlaiphai Range	9444	*Terminalia myriocarpa, Prunus serasoides, Emblica officinalis, Bischofia javanica,Ligustrum robustum, Bauhinia variegata, Jacaranda mimosaefolia*	The over all condition of Nursery, mode of creation, water supply, shade roof with supporting wall of iron post, seed beds, health and growth of seedlings is satisfactory. But, Horticultural medication is recomended for better growth of seedlings. Sign board, placard board are displayed to indicate each and every species that are still kept in polypots.

TLABUNG FOREST DIVISION

1. Net Present Value (NPV) ANR Plantation (45)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al &	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Tiperaghat Khawhmar lam Tiperaghat Tlabung Range	15 Ha. 2020-21	*Michelia Champaca, Biscofia javanica, Mesua ferrea, Lagerstroemia Speciosa, Artocarpus chama.*	70%	3.8 ft	1. 22°49'30.77"N 92°29'16.80"E 2. 22°49'34.47"N 92°29'26.92"E 3. 22°49'43.73"N 92°29'24.17"E 4. 22°49'50.83"N 92°29'19.48"E	Plantation sites are cleared of weeds and unwanted growth and seedlings were planted in the pits at a standard spacing. The growth and health are satisfactory. Plantation path and hut are constructed, signboards are displayed. Plantation journal and cash book are properly maintained.
2.	Tuichawng Khawbul Tuichawng Lungsen Range	15 Ha. 2020-21	*Michelia Champaka, Biscofia javanica, Baccaurea ramiflora, Artocarpus chama.*	80%	4.7 ft	1. 22°55'17.71"N 92°31'32.76"E 2. 22°52'21.12"N 92°31'49.51"E 3. 22°55'34.98"N 92°31'41.77"E 4. 22°55'16.03"N 92°31'29.07"E	Plantation is found to be as per the expectation of the implementing agency. The climatic condition suited for the plantation and signboards are displayed at the front.
3.	Ngiautlang Kawngchhak Chawngte 'L' Chawngte 'L' Range	15 Ha. 2020-21	*Michelia Champaka, Biscofia javanica.*	89%	4.4 ft	1. 22°38'4.02"N 92°40'26.21"E 2. 22°38'12.23"N 92°40'23.00"E 3. 22°38'23.15"N 92°40'27.60"E 4. 22°38'20.48"N 92°40'36.56"E	ANR plantation at Chawngte 'L' is visited. The negative impact is that the villagers practiced stolen, cutting and thinning of saplings. Though the remnants of plantation are up to the standard size and they are likely to establish themselves if strict vigilance is implied.

2. Net Present Value (NVP) Nurseries

Sl. No.	Location Village & Range	Total stocks	Species raised	Comments/Remarks
1.	Artah Tlabung Range	3800	*Michelia champaca, Prunus cerasoides, Parkia timoriana, Bischofia javanica, Mangifera indica, Emblica officinalis,Baccarea ramiflora, Karipata, syzygium cumini, Artocurpus chaplasha, etc.*	Visiting the nurseries impress the monitoring team that the implementing agency needs to take care of necessary remedial medical measures for the health of saplings. Water tanks, made of plastic reservior are installed to feed the seedlings. Neflon net are used as a roof to shade the tender seedlings. Plantation journal and cash book are properly maintained.
2.	Laldawla Luikam, Tuichawng Lungsen Range	3600		
3.	Range Complex Chawngte ‘ L’ Range	3500		

3. Forest Fire Prevention & Control : Maintenance of Fireline

Sl. No.	Location Village & RAnge	Physical (achievement)	Rate/km	Fin	Comments/ Remarks
1.	Sihlui hnar, Lawmgtlai Ngengpui Range	2km	0.17301	0.34602	After visiting sites of the Forest Fire Prevention(NPV) project, creation of fireline are still visible at different Ranges. The area is under fast growing vegetation, the measure have been found adequate to produce satisfactory result The area covered with grasses, thin foliage and shrub are cleared as a fireline measuring four metres wide. If need is arise for future use of fireline, it is recommended that the line may be cleared of all weeds and fallen leaves . The cleared area appeared to be able to contain and control forest fire during the time of creation.
2.	Khangpui lui hnar, Ngengpui, Ngengpui Range	2km		0.34602	
3.	Vawmbuk Siachangkawn, Phawngpui Range	10km	0.17301	4.30796	
4.	Cheural zotlang Lungphun kham bul, Phawngpui Range	8km			
5.	Thaltlang to Trijunction, Phawngpui Range	2km			
6.	Cheului Bridge to Duty Camp, Phawngpui Range	4.9km			

4. Improvement/upgradation of Forest Nurseries with Sign boars, inspection paths, repair of Fencing, weeding etc.

Sl. No.	Name of Works	Location Village & Range	Species raised	Comments/ Remarks
1.	Procurement of shadenet	Tlabung Range Lungsen Range Chawngte 'L' Range	*Michelia champaca, Parkia timoriana, Bischofia javanica, syzygium cumini, Biscofia javanica,*	Neflon shadenet, enough to covered all nursery beds are acquired and used as a roof for the nurseries. Wooden rooftrust are replaced with iron structure. Newly painted signboards are displayed indicating all species of saplings. Water tank is Constructed with RCC structure with proper distributing system. Plantation journal and cash book are properly maintained.
2.	Repair of Nursery	Tlabung Range Lungsen Range Chawngte 'L' Range		
3.	Repair of signboard	Tlabung Range Lungsen Range Chawngte 'L' Range		

5. Construction of new Forest Checkgate

Sl. No.	Location Village & Range	Geo-co-ordi-nates	Comments/ Remarks
1.	Tlabung village Tlabung Range	22°49'43.73"N 92°29'24.17"E	The visiting team are fully satisfied with the construction of roadside Forest Checkgate. The floor and skirting are made up of Cemented works and the upper part of the building is wooden structure, covered with corrugated sheet.

DCF (WL), AIZAWL

1. Forest Fire Prevention (NPV): Creation of Fireline (28.9 km)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Kawlhawk kak kawn, Kawnpuite, Tuikum, Tawi Wildlife Sanctuary	7.225 km 2021-2022	23°33'0.39"N 92°55'12.23"E	After visiting sites of the Forest Fire Prevention(NPV) project, creation of fireline are still visible at four different Ranges i.e. sanctuary, though the area is under fast growing vegetation, the measure have been found adequate to produce satisfactory results. The area covered with grasses, thin foliage and shrub are cleared as a fireline measuring four metres wide. The cleared area appeared to be able to contain and control forest fire during the time of creation.
2.	Ramri kawn to Khuailui, Khawnglung Wildlife Sanctuary	7.225 km 2021-2022	23°0 8'55"N 92°55'44"E	
3.	Tleu Village Boundary, Thorang Wildlife Sanctuary	5.5 km 2021-2022	23°13'21.19"N 92°33'2.06"E	
4.	Tuiawn Hnar, Pualreng Wildlife Sanctuary	8.77 km 2021-2022	24°11'35"N 92°51'55"E	

2. Aided Natural Re-generation (NPV) : Creation (15 ha.)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Chal hmun phei Thenhlum Thorang Wildlife sanctuary	15 ha.	Bischofia javanica, Toona ciliata, Lagerstroemia speciosa, Syzygium cumini , etc.	85%	4 ft	23°18'42.94"N 92°33'2.48"E	Visiting plantation site enable to adjudge Monitoring Team to grade the creation of ANR accurately. Area alloted by the authority is surveyed carefully before hand. Site for the plantation are cleared of all weeds then seedlings are planted in the pit at a standard spacing. Species selected for the plantation suited the climatic condition of the area. Survival of planation, health and growth of seedlings are found to be satisfactory. Plantation documents i.e. Journal, record and cash book are properly maintained.

3. Forest Fire Prevention & Control (NPV) : Maintenance of Fireline (22 km)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Hmuntha ram, Tawi puk, Maite ram , Tawi WLS Range	5.5 km 2020-2021	23°30'3.29"N 92°56'12.23"E	Traces of fireline is still visible though the area is under fast growing vegetation. Fireline, at the time of formation is cleared from the unwanted shrubs and grasses. The peripheral view show that the line formed to control forest fire are adequated. The present condition of these foreline looked desolated and neglected as the line are covered with grassees, shrubs and scatered dry leaves. If need arises for future usage, it is recommended that the fireline may be cleared of all unwanted debris.
2.	Ramri kawn , Nghanam chhuah Khawnglung WLS Range	5.5 km 2020-2021	23°8'11.55"N 92°56' 44"E	
3.	Theichangbung Duty Camp Kawng, N.Hlimen, Pualreng WLS Range	1.8 km 2020-2021	24°11'17.18"N 92°50'17.8"E	
4.	Tuiritat hnar, N.Hlimen, Pualreng WLS Range	3.7 km 2020-2021	24°10'40.49"N 92°49'39.39"E	
5.	Laisawral Boundary , Thorang tlang, Thorang WLS Range	5.5 km 2020-2021	23°13'21.19"N 92°33'2.06"E	

DCF(WL), LAWNGTLAI

1. Net Present Value (NPV) ANR Plantation (10 ha.)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Dillui pahnihna Khawmawi Ngengpui WLS Range	10 ha. 2020-21	*Lagerstroemia speciosa, Artocarpus Chaplasa, Amoora wallichii, Syzygium cumini, Dendracalamus, etc.*	85%	3 ft	22°30'4.63"N 92°46'0.36"E	After visiting the Plantation sites it was found that sites are cleared of weeds and unwanted growth and seedlings were planted in the pits at a standard spacing. The growth and health are satisfactory. Plantation path and hut are constructed, signboards are displayed. Plantation journal and cash book are properly maintained.

2. Forest Fire Prevention (NPV): Creation of fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Dillui pahnihna vau kual Khawmawi Ngengpui WLS Range	28.9 km 2021-22	22°30'4.63"N 92°46'0.36"E	Fireline traces are still visible though it is already two years back. Fireline if maintain properly it may be used to control forest fire during the fire season.

3. Forest Fire Prevention & Control (NPV): Creation of fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Dillui pahnihna vau kual Khawmawi Ngengpui WLS Range	18 km 2020-21	22°30'4.63"N 92°46'0.36"E	Fireline traces are still visible though it is already three years back. Fireline if maintain properly it may be used to control forest fire during the fire season. Signboards are displayed at the time of formation, but it is found to be deteriorated by time-lapse.

KHAWZAWL WILDLIFE DIVISION

1. Forest Fire Prevention (NPV) : Creation of Fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordinates	Comments/ Remarks
1.	Pumphet Tuikual	28.9 km 2021-22	23°35'17" N 93°21'04" E	Under Khawzawl Wildlife Division fireline is actually created and it is found to be good enough to control forest fire during the time of formation. The fireline, at present is full of unwanted growth of shrub which need to be clear of all for future use.
2.	Lalzawl Pharhzau (Lengteng Kham hnuai)		23°46'06" N 93°14'53' E	
3.	Dihmun Phul		23°50'50" N 93°14'57" E	

2. Added Natural Regeneration (NPV): Advance Work

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Murlen National park, Khawlhring mual, Rabung	8 Ha. 2020-21	*Michelia champaca, Bischofia javanica, Toona ciliata*	86%	6 ft	23°39'53.65'N 93°12'15.23"E	Plantation site is selected to shade the opening canopy and plantation is done to suit the purpose. Health and growth of plantation is satisfactory. Signboards are displayed and journal, cash book are properly maintained.
2.	Lengteng Wildlife Sanctuary, Dawhzau ram, Lamzawl	7 Ha. 2020-21	*Bischofia javanica, Toona ciliata, Ligustrum robustrum*	85%	6 ft	23°49'53.65'N 92°12'25.00"E	Plantation site is suitable for the selected species. Growth of plant may be slow due to trees covered the whole space area. Signboards are displayed and journal/record and cash book are maintained properly.

3. Forest Fire Prevention & Control (NPV) : Creation of Fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordinates	Comments/ Remarks
1.	Pumphet Tuikual	22 km 2020-21	23°35'17" N 93°21'04" E	Under Khawzawl Wildlife Division firelines are created to contain uncontrolled forest fire. But the fireline appeared to be neglected as the vegetation covered the whole fire prone area. If fireline be used for future it is recommended that the line may be cleared of all dry leaves.
2.	Lalzawl Pharhzau (Lengteng Kham hnuai)		23°46'06" N 93°14'53' E	
3.	Dihmun Phul		23°50'50" N 93°14'57" E	

4. Net Present Value (NPV) Nurseries : 2nd Year Seedlings

Sl. No.	Location Village & Range	No. Seedlings & Year	Species Planted	Geo-co-ordinates	Comments/ Remarks
1.	Khawzawl (Office bul), Khawzawl range	1222 2020-21	*Michelia champaca, Toona ciliata*	23°29'45"N 93°12'03"E	Nurseries created at the Khawzawl range remarkably well as they are the showpiece of the said range. Many seedlings are raised in a number of seed beds. Signboard and placards are displayed to indicate diffrence species of seedlings.
3.	Lamzawl (Field hlui)		*Cassia javanica, Mesua ferrea*	23°49'02"N 93°12'16"E	The monitoring team visited the site of the nursery and found that nurseries were shaded with a neflon net using iron roof trust to hold the green net. Cemented seed beds skirting wall are made up off RCC structure. Polypots are used for the better quality and health of the germinating seedlings. Sufficient water has been supplied to all nursery tiers. Negative comment is regretfully necessary that the health condition of the seedlings are in need of herbal medication.
3.	Rabung (RO Qrts. Thlang, Rabung Range		*Parkia timoriana, Delonix regia*	23°40'38"N 93°12'26"E	Visiting the nursuries it was found that ample care is taken for the quality and health of the germinated seedlings. Sufficient water is supplied to all nursery beds. Signboard and placards are displayed to indicate diffrence species of seedlings.

WPO (NORTH)

1. Survey & Mapping of RF/RRF (Chalfilh RF)

Sl. No.	Location Village & Range	Work Description	No. of piilars & Year	Geo-co-ordinates	Comments/ Remarks
1.	Chalfilh ram, Chalfilh Forest Range	Construction of Boundary pillars	167 & 2020-21	23°52’22.20”N 92°55 ’15.8”E 23°52’28.5”N 92°55’15.8”E 23°52’35.0”N 92 ° 55’15.0” E 23°52’41.1”N 92°5514.6”E 23°52’47.9”N 92°55’12.9”E	Numbers are inscribed to each and every pillars. They are installed at regular interval spacing to demarcate the purpose of the project. They are well maintained and desolation of a single pillars or up rooted one is not found. They are made up with RCC structure which are fitted tight and snugly to fit inside the pit.

WPO (SOUTH)

1. Survey & Mapping of RF/RRF (Bunghmun RF)

Sl. No.	Location Village & Range	Work Description	No. of piilars & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Bunghmun RF, Lungsen, Lungsen Range	Construction of Boundary pillars	155 & 2020-21	23°15'18.41"N 92°38'8.15"E	The pillars look fresh and well maintained. They are made up of RCC structure. They are fitted at the construction site at the designated spot. The pillars look to serve the purpose of formation as envisage by the implementing agency.

MARA AUTONOMOUS DISTRICT COUNCIL (MADC)

1. Campensatory afforestation (6.37 ha):

SL. No.	Location Village & Range	Phy Target (km) Year	Phy (Achieve-ment	Geo-co-ordi-nates	Comments/ Remarks
1.	Tlapi	6.37 km (2021-2022)	6.37 km	22° 29 43.2 N 93 °00 44.7 E	Visiting the plantation site, The team found that the site is suitabled for the plantation, growth and health is satisfactory. Plantation huts, journal/record and cash book are properly available. Signboards are displayed.

2. Fire Prevention : Creation of Firelines (NPV):

SL. No.	Location Village & Range	Area (km)	Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Kaochao Nursery	0.62	2021-22	22 °29' 43.5"N 93° 00' 44.7"E	After visiting sites of the Forest Fire Prevention(NPV) project, creation of fireline are still visible at different areas, though the areas are under fast growing vegetation, the measure have been found adequate to produce satisfactory result. The area covered with grasses, thin foliage and shrub are cleared as a fireline measuring four metres wide. The cleared area appeared to be able to contain and control forest fire during the time of creation.
2.	Ngokhaw Sado – Sangte Sado 2km	2	2021-22	22 °29' 44.1"N 93° 00' 45.2"E	
3.	Jal Shakti – PHE Ti lana Koa pillar chhana	1.5	2021-22	22 °29' 44.6"N 93° 00' 45.6"E	
4.	Mapui O – Jal shakti	2	2021-22	22 °29' 45.2"N 93° 00' 46.0"E	
5.	Tisi Forest Gate – Tipa VFDC chhana	2	2021-22	22 °29' 45.7"N 93° 00' 46.5"E	
6.	Chakhei Siata rari – PWD IB taih	2	2021-22	22 °29' 46.1"N 93° 00' 47.2"E	
7.	R.SAlyu - Ralie	5	2021-22	22 °29' 46.4"N 93° 00' 47.8"E	
8.	Sialchangkhum rah-Tisopi	2	2021-22	22 °29' 46.2"N 93° 00' 48.5"E	
9.	Theiva ladai koapa-Thlachhana lathlo	2	2021-22	22 °29' 46.7"N 93° 00' 48.8"E	
10.	Pala lary lathlo- Phura lathlo	3	2021-22	22 °29' 46.7"N 93° 00' 49.3"E	
11.	No-aotla nata Lobo arina- Lobo khi kho	0.5	2021-22	22 °29' 46.2"N 93° 00' 50.1"E	
12	Chhaolo Lobo daila-Akapa	0.5	2021-22	22 °29' 46.1"N 93° 00' 51.1"E	

3. Maintenance of Nurseries (NVP):

SL. No.	Location Village & Range	Species raised	Geo-co-ordinates	Comments/ Remarks
1.	Kaochao NBM Siaha	*Michelia champaca, Lagerstroemia speciosa, Jacarand, Terminalia, Bischofia javanica*	22 °29' 461"N 93°00' 51.9"E	The CAMPA Nursery under Siaha Division is well maintained. They are furnished with sufficient water supply and feed the the germinated seedlings as per the silviculture method. The nurseries are covered with Neflon nets. Nursery beds are made with cemented beds . The wall and the roof are furnished with rooftrust and iron frame works.

4. Net Present Value (NPV) ANR Plantation (20 ha.)

SL. No.	Location Village & Range	Area & Year	Species planted	Sur-Viv al %	Avg Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Tlangpui, Tlangpui Village, Siaha Range	20 ha. 2020-21	*Michelia champaca, Jacaranda, Michelia champacca, Toona ciliata*	70-80%	2.5 ft	22°30'17.48"N 93°1'2.41"E	Plantation sites are cleared of weeds and unwanted growth and seedlings were planted in the pits at a standard spacing. The growth and health are satisfactory. Plantation path and hut are constructed, signboards are displayed. Plantation journal and cash book are properly maintained.

5. Maintenance of Fireline (10 km) & Control (NPV) :

SL. No.	Location Village & Range	Phy Target (km)	Geo-co-ordi-nates	Comments/ Remarks
1.	Siaha Tlapi (Old Bualpui (NG) road to Mapuia Garden	0.67 Km	22°29'48.6"N 93°00'50.2"E	A wide enough fireline is cut as per the requirment of the project by the implementing agency that is to be able to contain the uncontrol fire during the fire season. But the present appearance is full of weeds and shrubs which need to re-surface.
2.	Siaha Tlapi	0.92 Km	22°29'48.2"N 93°00'49.9"E	
3.	Vety Farm to laizi Garden, Siaha	2.39 Km	22°29'48.1"N 93°00'49.2"E	
4.	Chhatla ,Siaha	4.38 Km	22°29'48.0"N 93°00'48.4"E	
5.	Chakhei ANR Plantation	1.47 Km	22°29'48.0"N 93°00'47.7"E	
6.	Chapi ANR Plantation Chakhei	0.17 Km	22°29'48.1"N 93°00'46.7"E	

LAI AUTONOMOUS DISTRICT COUNCIL (LADC)

1. Compensatory Afforestation (CA) Pantation : Advance work

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Mampui, Lawngtlai Range	4.81 ha. 2021-22	*Michelia champacca, Terminalia, Bischofia javanica,*	80 %	8 ft	22°30'53.16"N 92°49'01.96"E	The monitoring team visited the plantation site and found that the plantation is well established, growth and health is satisfactory. Plantation journal/ record and cash book are properly maintained.

2. Forest Fire Prevention (NPV): Creation Of Fireline

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Alu tlang, Paithar, Lawngtlai range	3.78 km 2021-2022	22°24'55"N 92°53'1"E	Traces of fireline is still visible after a gap of two years. The fast growing vegetation partially covered formation fireline but it seems that the fireline will be able to control forest fire at the time of that fire season.
2.	Chawntlangpui, Lawngtlai Range	2 km 2021-2022	22°2614.27"N 92°55'34.25"E	

3. Maintenance of Nurseries (2021-2022):

Sl. No.	Location Village & Range	No. of Seedlings	Avg. Height	Geo-co-ordi-nates	Comments/ Remarks
1.	Chawntlangpui, Lawngtlai Range	10000	3 ft	22°26'12.73"N 92°55'32.43"E	The monitoring team visited nursery site and found that the whole nursery is under supervision of deligent working staff. Signboards are displayed, depicting each an every species that are in the seed beds. Polypots are used for better health and care which are to be transplanted at the right season. Water supply is sufficient for all nursery beds. Shaded net are used as a roof to shade the bed seed using iron roof structure.

4. Net Present Value (NPV) ANR Creation : (20 ha.)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Paithar , Lawngtlai Range	20 ha. 2020-21	*Michelia champacca, Lagerstroemiasp, Syzygium cumini, Terminalia, Bischofia javanica, etc.*	75%	15 ft	22°26'20.27"N 92°54'03.55"E	The monitoring team found that the implementing agency follow ANR method of creation. Plantation journal, record and cash book are properly maintained and are readily available at the time of visiting.

5. Forest Fire Prevention & Control (NPV) : (10 km)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Chawntlangpui, Lawngtlai Range	5 km 2020-21	22°26'14.27" N 92°55'34.25"E	Traces of fireline formation is still visible at every fire prone area. Tropical vegetation almost camouflage the entire area of fireline but the project seem to be able to control forest fire at the time of formation.
2.	Paithar , Lawngtlai Range	5 km 2020-21	22°24'55"N 92°53'1"E	

CHAKMA AUTONOMOUS DISTRICT COUNCIL (CADC)

1. Net Present Value (NPV) ANR Plantation (20 ha.)

Sl. No.	Location Village & Range	Area & Year	Species Planted	Sur-Viv al %	Avg. Hei-ght	Geo-co-ordi-nates	Comments/ Remarks
1.	Palenasora Palenasora Kamalanagar Range	10 ha. 2020-21	*Xylia xylocarpa, Mangifera indica and Bamboo species*	78%	3.5 ft	22°36'41.2"N 92°35'57.5"E	Silviculture method of plantation is practiced in ANR plantation. After visiting the site the team felt satisfactory in growth and health of plantation. Record, Journal and cash book are properly maintained.
2.	Mondirasora Mondirasora Kamalanagar Range	10 ha. 2020-21	*Xylia xylocarpa, Mangifera indica and Bamboo species*	80%	3.5 ft	22°45'58.17"N 92°35'8.71"E	ANR method of plantation is followed. Seedling were planted in the pits at a standard spacing after clearing of all weeds and unwanted growth of shrubs. Journal and cash book are properly maintained.

2. Forest Fire Prevention & Control (NPV) :Maintenance of Fireline (10 km)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordi-nates	Comments/ Remarks
1.	Mondirasora Kamalanagar Range	5 km 2020-21	22°39.135"N 92°36.832E	Fireline created before three years is barely visible under fast growing tropical vegetation but after careful inspection and guidance of the working staff the fireline appeared be able to control forest fire at the time of fire season.
2.	Udaltana Kamalanagar Range	5km 2020-21	22°29.660'N 92°37.180"E	

3. Maintenance of Nursery (2021-22) : (Central Nursery)

Sl. No.	Location Village & Range	Species Plant	Geo-co-ordi-nates	Comments/ Remarks
1.	Sadara Sora, Kamalanagar Range	*Michelia champaca, Xylia xylocarpa, Mangifera indica and Bamboo species*	1. 22°37.382""N 92°37.751"E 2. 22°37.335""N 92°37.341""E 3. 22°37.194'"N 92°37.120""E	Visiting the site of the nursery it is saddening to make a comment that the entire nursery is in a pathetic condition. Water supply in sufficient to moist all the seed beds. The health and the growth of the seedlings are unsatisfactory and in need of Herbal medication. Shaded roof are not large enough to shade the entire nursery.

4. Forest fire prevention (NPV): Creation of Fireline (2021-22)

Sl. No.	Location Village & Range	Area & Year	Geo-co-ordinates	Comments/Remarks
1.	Mondirasora Kamalanagar Range	5.78 km 2021-22	22°39.135"N 92°36.832E	It was found that fireline was actually created and is found to contain the uncontrol forest fire at the time of creation. But good natural vegetation almost covered the whole areas and in need of proper maintenance if it is to be used in the ensuing fire season.

VII. OBSERVATIONS:

(1) The acute problem faced by the implementing agency is unseasonal sanctioning of fund from the Central Gov't as this could result in delay of various forestry operation which are mostly time bound activity.

(2) Intensive awareness campaign is still necessary to move lack of clarity about the overall objectives of the project and the need to change institutional and traditional local concept of forest.

(3) The authority maintains that the whole process of implementation of the project should be free from all political interference and pressure and this should be maintained as such.

(4) Adoption of this project is in relevant to global Environmental Programme and must be continued with vigor and more enthusiasm in all aspects and be treated as priority issue at Central and state level.

VIII. SUGGESTIONS FOR IMPROVEMENTS:

(1) In order to achieve satisfactory results it is necessary to increase a number of working Departmental staff. Acute shortage of staff is felt at every level of Departmental tiers to inspect and vigilant more staff is required.

(2) 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.

(3) To gain better understanding of the concept CAMPA by the executing Dept. itself, it is felt necessary that Orientation training and Refresher Courses be conducted from time to time.

(4) Clear and precise instruction be given to Dept. officials to remind them that the scheme is not to be treated as another Departmental routine programme but the key point of success lies in the understanding and total involvement of the local people.

(5) To appreciate the scheme, people should be made aware of the importance of environment protection and conservation of biodiversity and the following measures may be adopted for protection of the plantation as and when necessary. Forest fire control, control of grazing animals, strict vigilance against destruction and cutting down of plantation and strict surveillance from encroachment of adjacent farmers.

(6) The project is expected to increase bio-mass production after 4/5 years as the plantation are carefully nurtured and strictly protected by the whole community.

(7) Good practices discharged by the community always averted the uncontrolled forest fire disaster every year during fire season. Staff are advice to engage community service as such in the future for the success of the scheme.

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

QUANTITATATIVE ASPECT	Physical	8.5
	Financial	8.5
QUALITATIVE ASPECT	Survival percentage of the plantation	7
	Health & Growth of the seedlings planted	8
	Maintenance of the plantation	7
	Sustainability of the plantation	8
	Creation of the Fireline	7
	Maintenance of the Fireline	6
OVERALL GRADING OF THE PROJECT	Outstanding (8-10)	-
	Very good (5-8)	7.5 (Very good)
	Good (3-5)	-
	Poor (<3)	-

IX. B. FORMAT OF CURRICULUM VITAE OF MONITORING AGENCY

Save Environment Association (SENVA)
General Headquarters, Aizawl, Mizoram
Registration No. SR/MZ-13 of 2003-2004

Name of Evaluator : K. BIAK THIANG HLIMA
Signature :
Designation : President, SENVA
Date : 28th February, 2024
Contact Number : 9436388945
Seal :