

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

No.B.20018/23(A)/2021-CAMPA/PCCF/

Dated Aizawl the 3rd March., 2025

To,

The Chief Executive Officer,
Ministry of Environment, Forests & Climate Change,
(National Authority, CAMPA)
3rd Floor (Front Portion), Supreme Court Metro Station Building (Line-3),
New Delhi-110001.
E-mail : nationalcampa-moefcc@gov.in

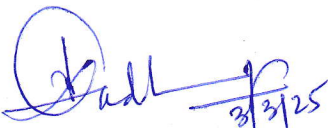
**Subj : Submission of 3rd Party Monitoring Report for the year 2020-21 (NPV)
and 2021-22 – reg.**

Sir,

With reference to the subject cited above, I am submitting herewith a copy of 3rd Party monitoring report in respect of CAMPA activities for the year 2020-2021 (NPV) and 2021-22 for your kind information and necessary action.

Yours sincerely,

Encl : As above.


*(ARTI CHAUDHARY)
Chief Executive Officer
State Authority, (CAMPA)

No.B.20018/23(A)/2021-CAMPA/PCCF/

Dated Aizawl the 3rd March., 2025

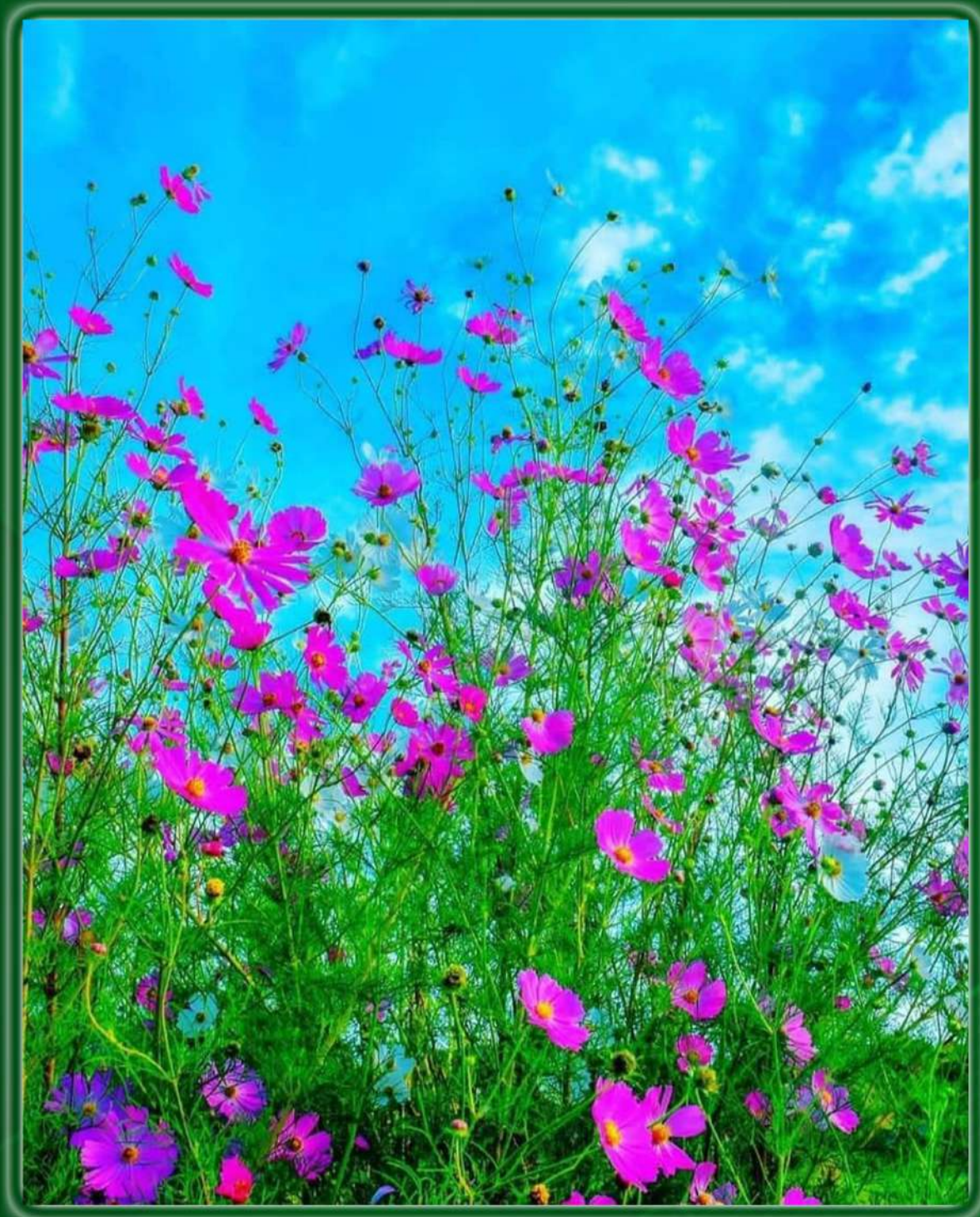
Copy to :

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


*(MZ SINGSON)
Conservator of Forests (FC)

**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)



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

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**REPORT ON MONITORING AND EVALUATION OF CAMPA WORKS
IMPLEMENTED BY THE DEPARTMENT OF EF&CC,
GOVERNMENT OF MIZORAM
UNDER CAMPA APO (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, reservoirs in the interest of soil and water conservation.

Whereas development projects necessitates 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 discrepancies in the implementation of compensatory afforestation some NGOs had approached the Hon'ble Supreme Court for relief – The Hon'ble Supreme Court on 10th July 2009 issued orders that there will be a Compensatory Afforestation Fund Management and Planning Authority (CAMPA) in National Advisory Council under 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, sandwiched 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 92° 15' E to 93° 29' E and Latitude degree is 21° 58' N to 24° 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 recommendation 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 (SEVA) 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 (SEVA) 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 deficiencies 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 necessary.

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) | 1 st Year maintenance | 200 ha | 2021-22 |
| 3. | Tuirial HEP (CATP) | 4 th 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) | 2 nd 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) | 1 st year maintenance | 432.5 ha | 2021-22 |
| 6. | Tuirial HEP (CA) | 3 rd Year maintenance | 346.5 ha | 2021-22 |
| 7. | MSRP - II (Gr-I) Tlabung – Kawrpuichhuah (CA) | 3 rd Year maintenance | 4.98 ha | 2021-22 |
| 8. | BG Railway line between Bairabi to Sairang (CA) | 5 th Year maintenance | 46.555 ha | 2021-22 |
| 9. | NH-44 A (Lengpui – Langkaih) (CA) | 5 th Year maintenance | 56.633 ha | 2021-22 |
| 10. | Improvement of Chhumkhum to Chawngte Road (CA) | 5 th Year maintenance | 3.85 ha | 2021-22 |
| 11. | BG Railway line between Bairabi to Sairang (CA) | 6 th year maintenance | 27.933 ha | 2021-22 |
| 12. | Tuirial REP (CATP) | 1 st Year maintenance | 300 ha | 2021-22 |
| 13. | Tuirial HEP (CATP) | 4 th 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) | 2 nd 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) | 2 nd year seedlings | 2778 | 2020-21 |

KOLASIB FOREST DIVISION

| Sl. No. | Name of Project | Work Description | Area | APO Year |
|---------|--|----------------------------------|------------|----------|
| 1. | 400 KV Transmission line (CA) | 5 th Year maintenance | 768.062 ha | 2021-22 |
| 2. | Tuirial HEP (CATP) | 1 st yr maintenance | 300 ha | 2021-22 |
| 3. | Tuirial HEP (CATP) | 4 th yr maintenance | 300 ha | 2021-22 |
| 4. | 400 KV Transmission Line (Dwarf Plantation) | 5 th 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) | 2 nd 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) | 2 nd 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 | 3 rd 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) | 2 nd 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) | 2 nd 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) | 2 nd 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) | 2 nd 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 (Chalfil 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 | Survival % | Avg. Height mtr | Geo-coordinates | Comments/ Remarks |
|--|--------------------------------|----------------------|--|------------|-----------------|--------------------------------|---|
| Construction of 132 KV Transmission line (Sakawrtuchhun to Sihmui) (CA) | | | | | | | |
| 1. | Lungsezang, Setlak | 18.78 ha. 2021-22 | <i>Michelia champacca</i> , <i>Terminalia arjuna</i> , <i>Bischofia javanica</i> , <i>Syzygium cumina</i> | 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 | <i>Michelia champacca</i> , <i>Cinnamomum verum</i> , <i>Chukrasia velutinam</i> , <i>Aquilaria malaccensis</i> , <i>Toona ciliata</i> | 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 maintained. 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) (4 th Year Maintenance): (150 ha.) | | | | | | | |
|---|---------------------------|---------------------|---|-----|-----|-------------------------------|--|
| 1. | Phulraw pang, Maubuang | 150 ha. 2021-22 | <i>Michelia champacca,</i> <i>Cinnamomum verum,</i> <i>Chukrasia velutinam,</i> <i>Aquilaria malaccensis</i> | 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 maintained. 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 | <i>Michelia champacca,</i> <i>Bischofia javanica,</i> <i>Syzygium cumini</i> | 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 journal, record and cash book are available and properly maintained. |
| 2. | Sakawrhmutuai, 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 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 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 | <i>Ligusrum robustum,</i> <i>Toona ciliate,</i> <i>Syzygium cumini,</i> <i>Michelia champacca,</i> <i>Bischofia javanica,</i> | 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 materials 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 | <i>Michelia champacca,</i> <i>Toona ciliate,</i> <i>Samania saman</i> | 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 | <i>Michelia champacca</i> , <i>Bischofia javanica</i> , <i>Toona ciliate</i> | 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. | Ruanzawran hnai, Hmawngkawn | 15 ha. 2020-21 | <i>Bischofia javanica</i> , <i>Michelia champacca</i> , <i>Ligustrum robustum</i> , <i>Toona ciliate</i> , <i>Syzygium cumini</i> | 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 | <i>Chukrasia tabularis</i> , <i>Bischofia javanica</i> , <i>Michelia champacca</i> , <i>Syzygium cumini</i> , <i>Toona ciliate</i> | 83% | 1.6 | 23°55'44"N 92°39'34"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. |
| Forest Fire 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 even 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 : 2 nd Year Seedlings | | | | | | |
|--|----------------------------|--------------------|---|--|--------------------------|---|
| 1. | Central Nursery Tuirial | 2778nos 2020-21 | <i>Artocarpus heterophyllus</i> , <i>Michelia champacca</i> , <i>Toona ciliate</i> , <i>Bischofia javanica</i> , <i>Mesua ferrea</i> | | 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 made 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-ordinates | Comments/ Remarks |
|---|--------------------------------|---|-------------------|---|--------------------------|--|
| Biodiversity Conservation at Tamdil Lake (NPV) | | | | | | |
| 1. | Tamdil Wet-land area | Construction of compost pit for removed debris and unwanted species | 1 no 2020-2021 | <i>Bischofia javanica</i> , <i>Ligustrum robustum</i> , <i>Prunus undalata</i> , <i>Phyllanthus emblica</i> , <i>Hovenia dulcis</i> | 23°44'14"N 92°57'08"E | Mixed species Plantation is created for the Conservation of Biodiversitys. The spacing of planting, Growth and Health is satisfactory. Sign boards, requesting visitors to perticipate in Conserving Biodiversity 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 | Survival % | Avg. Height | Geo-co-ordinates | 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 | <i>Michelia champacca, Gomari</i> | 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, Damdai, Khawruhlian Range | 23.69 2021-2 | <i>Michelia champacca, Gomari</i> | 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 | <i>Michelia champacca, Gomari, Tectona grandis, Toona ciliata, Gmelina arborea</i> | 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, Darlawm 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, Darlawm Range | 183.58 2021-22 | | 90% | 4 ft | 23°58'13.06"N 92°49'33.34" | |
| Tuirial HEP (CA) | | | | | | | |
| 1. | N.Serzawl, Darlawm Range | 339.5 2021-22 | <i>Michelia champacca, Gomari</i> | 85% | 4 ft | 23°57'14.2"N 92°50'42.0"E | The plantation method is applied in to to, journal 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 | <i>Michelia champacca, Gomari, , Toona ciliata</i> | 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 | <i>Tectona grandis, Toona ciliata, Gmelina arborea</i> | 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 | <i>Michelia champacca</i> , <i>Gomari</i> , <i>Toona ciliata</i> | 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, Darlaw Range | 3.85 2021-22 | <i>Gmelina arborea</i> , <i>Michelia champacca</i> , | 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 Darlaw Range | 27.933 2021-22 | <i>Michelia champacca</i> , <i>Gomari</i> , <i>Tectona</i> , <i>Grandis</i> | 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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
|---------|--------------------------|---------------------|--|------------|-------------|------------------------------|--|
| 1. | Darlaw Range | 200 ha. 2021-22 | <i>Gomari</i> , <i>Tectona grandis</i> , <i>Toona ciliata</i> <i>Michelia champacca</i> , | 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 | <i>Michelia champacca</i> , <i>Gomari</i> , <i>Tectona grandis</i> | 85% | 5 ft | 24°12'17"N 92°56'40"E | |

| | | | | | | | |
|----|-----------------------------|-----------------|--|-----|------|---------------------------|--|
| 3. | Buallawn ram, Ratu range | 150 ha. 2021-22 | <i>Tectona grandis</i> , <i>Toona ciliata</i> <i>Michelia champacca</i> , <i>Gomari</i> | 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 | <i>Michelia champacca</i> , <i>Gomari</i> , <i>Tectona grandis</i> | 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-ordinates | 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 | <i>Tectona grandis</i> , <i>Toona ciliata</i> , <i>Gmelina arborea</i> , <i>Michelia champacca</i> | 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 rooftruss 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-ordinates | Comments/ Remarks |
|---------|-----------------------------|---------------------|--|--------------------------|---|
| 1. | Rungdil, Suangpuilawn Range | 5 ha. | <i>Tectona grandis</i> , <i>Toona ciliata</i> , <i>Gmelina arborea</i> | 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 | Survival & | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|--|------------------|---|------------|-------------|-------------------------------|---|
| 1. | Mualzen zau ram Kelkang Champhai Range | 5 ha. 2020-21 | <i>Parkio timoriana</i> , <i>Artocarpus heterophyllus</i> , <i>Embllica officinalis</i> , <i>Terminalia myriocarpa</i> | 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 | <i>Parkio timoriana</i> , <i>Artocarpus heterophyllus</i> , <i>Embllica officinalis</i> , <i>Terminalia myriocarpa</i> | 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 | <i>Parkio timoriana</i> , <i>Artocarpus heterophyllus</i> , <i>Embllica officinalis</i> | 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 | <i>Bisconofia javanica</i> , <i>Artocarpus heterophyllus</i> , <i>Mangifera indica</i> | 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 | <i>Bisconofia javanica</i> , <i>Artocarpus heterophyllus</i> , <i>Toona ciliata</i> | 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 | <i>Bisconofia javanica,</i> <i>Duabanga,</i> <i>Toona ciliata</i> | 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 | <i>Bisconofia javanica,</i> <i>Duabanga,</i> <i>Toona ciliata</i> | 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 | <i>Parkio timoriana,</i> <i>Artocarpus heterophylus,</i> <i>Michelia champaca</i> | 74% | 7 ft | 23°56'55"N 93°18'41"E | The plantation is found to be free from encroachment. The implementing agency properly 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 | <i>Perkia roxburghii</i> , <i>Terminalia myriocarpa</i> , <i>Artocarpa heterophylla</i> , etc. | The Campa Nursery is well equipped with the structural component for the proper requirement of nursery. Signboard indicating each an every Species is erected. Sufficient water is supplied to feed all nursery beds. |
| 2. | Range Comlex, Khawbung Range | 626 | <i>Perkia roxburghii</i> , <i>Terminalia myriocarpa</i> , <i>Artocarpa heterophylla</i> , 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 | <i>Biscofia javanica</i> , <i>Artocarpa heterophylla</i> <i>Ligustrum robustum</i> , 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 Complex, Hnahlan Range | 626 | <i>Michelia champaca,</i> <i>Biscofia javanica,</i> <i>Alnus nepalensis, etc.</i> | 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 requirement of the project by the implementing agency that is to be able to contain the uncontrol fire during the fire season. But the present appeared 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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|--|-------------------|--|------------|-------------|------------------------------|---|
| 1. | Chhipphir Tlang Chhipphir Thenzawl Range | 40 ha. 2020-21 | <i>Prunus cerasoides</i> , <i>Ligustrum robustum</i> , <i>Michelia champaca</i> , <i>Ficus bengalensis</i> , <i>etc.</i> | 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 recommended 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-ordinates | 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-ordinates | Comments/ Remarks |
|---------|------------------------------------|-----------------------|-----------------------------|--|
| 1. | Chalkhan, Thenzawl, Thenzawl Range | 0.54 Ha. 2020-2021 | 23°16'28"N 92°46'13.10"E | <p>All nurseries have good and sufficient water supply from the water reservior. Each seed beds received adequate water supply moistering the seed beds.</p> <p>Nursery beds are made with cemented floor and iron roof trust are erected to held the shaded roof.</p> <p>Polypots are used for hygenic germination – health and growth of seedlings are satisfactory.</p> |

KOLASIB FOREST DIVISION

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

| Sl. No. | Location Village & RAnge | Area & Year | Species Planted | Survival & | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
|---------|--|------------------------|--|------------|-------------|----------------------------------|--|
| 1 | Tlangpui lian, Phaisen, Buhchang Forest Range | 198 Ha. 2021-22 | <i>Tectona grandis</i> , <i>Michelia champaca</i> , <i>Bischofia javanica</i> , 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 | <i>Michelia champaca</i> , <i>Bischofia javanica</i> , 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. | Arkhuangloram, Kawnpui, Kawnpui Forest Range | 180.062 Ha. 2021-22 | <i>Michelia champaca</i> , <i>Parkia speciosa</i> , <i>Artocarpus chaplasam</i> , 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 | <i>Michelia champaca</i> , <i>Bischofia javanica</i> , 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 | Survival & | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|---|--------------------|--|------------|-------------|----------------------------------|---|
| 1 | Uikaih Lui, Bukpui, Bukpui Forest Range | 130 Ha. 2021-22 | <i>Bischofia javanica</i> , <i>Michelia champaca</i> , <i>Duabanga grandiflora</i> , | 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 erected. Plantation Journal/record and cash book are properly maintained. |
| 2. | Thohuang Tlang, N.Hlimen, N.Hlimen Forest Range | 85 Ha. 2021-22 | <i>Michelia champaca</i> , <i>Gmelina arborea</i> , 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 | <i>Michelia champaca</i> , <i>Duabanga grandiflora</i> , 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 | Survival & | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|---|--------------------|--|------------|-------------|----------------------------------|---|
| 1. | Uikaih Lui, Bukpui, Bukpui Forest Range | 100 Ha. 2021-22 | <i>Bischofia javanica</i> , <i>Michelia champaca</i> , <i>Duabanga grandiflora</i> , | 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 | <i>Michelia champaca</i> , <i>Gmelina arborea</i> , 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 | <i>Michelia champaca</i> , <i>Duabanga grandiflora</i> , <i>etc.</i> | 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 & RRange | Area & Year | Species Planted | Survival & | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
|---------|---|------------------|--|------------|-------------|---------------------------------|--|
| 1 | Vakultui, Vairengte, Vairengte Forest Range | 4 Ha. 2021-22 | <i>Jacaranda</i> , <i>Phyllanthus emblica L</i> | 73 | 5 ft | 24°23' 49" N 92°43'10"E | Though the plantation is designated as dwarf plantation, 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 | <i>Michelia champaca</i> , <i>Gmelina arborea</i> | 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 | <i>Michelia champaca</i> , <i>Gmelina arborea</i> , | 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 | <i>Jacaranda, Ferul moschta</i> | 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-ordinates | Comments/ Remarks |
|---------|---|-------------------|----------------------------------|---|
| 1. | Zongaw Reserve, Mamit Range | 8.9 km 2021-22 | 35°51'17.42"N 92°29'41.27"E | <p>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.</p> <p>The monitoring team felt that permanent fireline is not necessary as the cultivators still practiced shifting cultivation in this area.</p> |
| 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-ordinates | Comments/ Remarks |
|---------|-------------------------------|-------------|-------------------------------|--|
| 1. | Division Complex, 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 reserrior. |

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

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

| SL. No. | Location Village & Range | Area & Year | Species planted | Survival % | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
|---------|---|-------------|--|------------|-------------|--------------------------------|---|
| 1. | Tuidai Khawhlui (Teirei kam), Mamit Range | 40 ha. | <i>Bischofia javanica</i> , <i>Toona ciliata</i> , <i>Michelia champacca</i> , <i>Artocarpus chaplasi</i> | 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-ordinates | 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-ordinates | 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 | Survival (%) | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
|---------|-----------------------------------|-------------|---|--------------|-------------|--------------------------|--|
| 1. | W. Serzawl, Lengpui Range | 30 ha. | <i>Homalomena aromatica</i> , <i>Michelia champacca</i> | 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. | <i>Homalomena aromatica</i> , <i>Embllica officianalis</i> | 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 allotted 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°45'39"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-ordinates | 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 almost 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-ordinates | 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 impression 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-ordinates | 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 accessible 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-ordinates | 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-ordinates | Comments/ Remarks |
|---------|---|------------|---|--------------------------------|--|
| 1. | Zonunsiaman 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 incirbed. |
| 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-ordinates | 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. Aided Natural Regeneration (NPV): Creation (50 Ha.)

| Sl. No. | Location Village & Range | Area & Year | Species Planted | Geo-co-ordinates | 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 allotted 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. | Darлак 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 | <i>Prunus cerasoides</i> , <i>Ligustrum robustum</i> , <i>Michelia champacca</i> , <i>Ficus bengalensis</i> | 23°51'38"N 92°19'07" | |
| 5. | Rengdil kam, Lungkulh, Zamuang Range | 10 ha. 2020-21 | <i>Ligustrum robustum</i> , <i>Michelia champacca</i> , | 24°08'29.6"N 92°24'32.4"E | |

6. Forest Fire Prevention (NPV)

| Sl. No. | Location Village & Range | Area & Year | Geo-co-ordinates | Comments/ Remarks |
|---------|--------------------------|-----------------|----------------------------------|--|
| 1. | Kawrthah Range | 5 km 2020-21 | 23°57'35.769"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-ordinates | 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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
| 1. | Thingfal ram Thingfal Tawipui Rang | 0.2424 2021-22 | <i>Michelia champacca</i> , <i>Toona ciliata</i> , | 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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
|---------|---|-------------------|---|------------|-------------|--------------------------------|---|
| 1. | Arthladawn ram Zobawk Lunglei Range | 20 ha. 2020-21 | <i>Michelia champacca</i> , <i>Prunus cerasoides</i> , <i>Emblca officinalis</i> | 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 | <i>Michelia champacca</i> , <i>Toona ciliata</i> , <i>Prunus cerasoides</i> , | 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 | <i>Michelia champacca</i> , <i>Terminalia myriocarpa</i> , <i>Emblca officinalis</i> , <i>Oxylum indicum</i> | 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 | <i>Michelia champacca</i> , <i>Terminalia myriocarpa</i> , <i>Emblca officinalis</i> | 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 | <i>Michelia champacca</i> , <i>Emblca officinalis</i> , <i>Toona ciliata</i> | 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 | <i>Micheliac Champacca</i> , <i>Terminalia myriocarpa</i> , <i>Emblca officinalis</i> , <i>Oxylum indicum</i> , <i>Parkia timoriana</i> , <i>Duabanga grandiflora</i> , <i>Lagerstroemia speciosa</i> | 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-ordinates | 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-ordinates | Comments/ Remarks |
|---------|--|--------------------|---|--------------------------------|---|
| 1. | Hightech Nursery Pukpui Lunglei Forest Range | 1.5 ha. 2020-21 | <i>Michelia champacca</i> , <i>Cinnamomum verum</i> , <i>Bischofia javanica</i> , <i>Aquilaria malaccensis</i> (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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|--------------------------------------|-------------------|---|------------|-------------|--------------------------------|---|
| 1. | Ramri kawn, N.Vanlaiphai Range | 20 ha. 2021-22 | <i>Michelia champacca</i> , <i>Prunus serasoides</i> , <i>Bischofia javanica</i> , <i>bauhinia variegata</i> , <i>Terminalia myriocarpa</i> | 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 | <i>Prunus serasoides</i> , <i>Michelia champacca</i> , <i>Terminalia myriocarpa</i> | 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 | <i>Bischofia javanica</i> , <i>Prunus serasoides</i> , <i>Michelia champacca</i> , <i>Bischofia javanica</i> , | 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 | <i>Terminalia myriocarpa</i> , <i>Prunus serasoides</i> , <i>Michelia champacca</i> | 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. | Thingmun, Ngharchhip, Cherhlun Range | 5 ha. 2021-22 | <i>Emblica officinalis</i> , <i>Terminalia myriocarpa</i> , | 85% | 4 ft | 22°42'25.48"N 92°50'50.27"E | Fast growing natural vegetation 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 | <i>Toona ciliata, Emblica officinalis, Bischofia javanica</i> | 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 recommended 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 | Traces of Fireline created 2 years before is still visible. Fast growing vegetation covered almost 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 | 22°56'00"N 93°06'00"E | |
| 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 delectantly 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. | Thingsai to Tumtu kawng, 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 (2 nd year seedlings) | Species raised | Comments/ Remarks |
|---------|---------------------------------------|---|--|--|
| 1. | Forest Complex, N.Vanlaiphai Range | 9444 | <i>Terminalia myriocarpa,</i> <i>Prunus serasoides,</i> <i>Emblca officinalis,</i> <i>Bischofia javanica,</i> <i>Ligustrum robustum,</i> <i>Bauhinia variegata,</i> <i>Jacaranda mimosaeifolia</i> | 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 | Survival & | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|---|-------------------|--|------------|-------------|--|--|
| 1. | Tiperaghat Khawhmar lam Tiperaghat Tlabung Range | 15 Ha. 2020-21 | <i>Michelia Champaca,</i> <i>Biscofia javanica,</i> <i>Mesua ferrea,</i> <i>Lagerstroemia Speciosa,</i> <i>Artocarpus chama.</i> | 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 | <i>Michelia Champaka,</i> <i>Biscofia javanica,</i> <i>Baccaurea ramiflora,</i> <i>Artocarpus chama.</i> | 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 | <i>Michelia Champaka,</i> <i>Biscofia javanica.</i> | 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 | <i>Michelia champaca, Prunus cerasoides, Parkia timoriana, Bischofia javanica, Mangifera indica, Emblica officinalis, Baccarea ramiflora, Karipata, syzygium cumini, Artocarpus chaplasha, etc.</i> | 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 reservoir 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 | <p>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</p> <p>The area covered with grasses, thin foliage and shrub are cleared as a fireline measuring four metres wide.</p> <p>If need is arise for future use of fireline, it is recommended that the line may be cleared of all weeds and fallen leaves .</p> <p>The cleared area appeared to be able to contain and control forest fire during the time of creation.</p> |
| 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 boards, 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 | <i>Michelia champaca,</i> <i>Parkia timoriana,</i> <i>Bischofia javanica,</i> <i>syzygium cumini,</i> <i>Bischofia javanica,</i> | Neflon shadenet, enough to covered all nursery beds are acquired and used as a roof for the nurseries. Wooden rooftruss 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-ordinates | 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-ordinates | 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 | <p>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.</p> <p>The area covered with grasses, thin foliage and shrub are cleared as a fireline measuring four metres wide.</p> <p>The cleared area appeared to be able to contain and control forest fire during the time of creation.</p> |
| 2. | Ramri kawn to Khuailui, Khawnglung Wildlife Sanctuary | 7.225 km 2021-2022 | 23°08'55"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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
|---------|---|-------------|--|------------|-------------|-------------------------------|---|
| 1. | Chal hmun pheii 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 | <p>Visiting plantation site enable to adjudge Monitoring Team to grade the creation of ANR accurately. Area allotted 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.</p> <p>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.</p> |

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

| Sl. No. | Location Village & Range | Area & Year | Geo-co-ordinates | 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. |
| 2. | Ramri kawn , Nghanam chhuah Khawnglung WLS Range | 5.5 km 2020-2021 | 23°8'11.55"N 92°56' 44"E | 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. |
| 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 | The present condition of these foreline looked desolated and neglected as the line are covered with grassees, shrubs and scatered dry leaves. |
| 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 | If need arises for future usage, it is recommended that the fireline may be cleared of all unwanted debris. |

DCF(WL), LAWNGTLAI

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

| Sl. No. | Location Village & Range | Area & Year | Species Planted | Survival % | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|---|-------------------|--|------------|-------------|------------------------------|---|
| 1. | Dillui pahnihna Khawmawi Ngengpui WLS Range | 10 ha. 2020-21 | <i>Lagerstroemia speciosa</i> , <i>Artocarpus Chaplasi</i> , <i>Amoora wallichii</i> , <i>Syzygium cumini</i> , <i>Dendracalamus</i> , 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-ordinates | 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-ordinates | 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 Pharihau (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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/ Remarks |
|---------|---|------------------|--|------------|-------------|--------------------------------|---|
| 1. | Murlen National park, Khawhring mual, Rabung | 8 Ha. 2020-21 | <i>Michelia champaca</i> , <i>Bischofia javanica</i> , <i>Toona ciliata</i> | 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 | <i>Bischofia javanica</i> , <i>Toona ciliata</i> , <i>Ligustrum robustum</i> | 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 Pharihau (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 | <i>Michelia champaca</i> , <i>Toona ciliata</i> | 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 difference species of seedlings. |
| 3. | Lamzawl (Field hlui) | | <i>Cassia javanica</i> , <i>Mesua ferrea</i> | 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 | | <i>Parkia timoriana</i> , <i>Delonix regia</i> | 23°40'38"N 93°12'26"E | Visiting the nurseries 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 difference species of seedlings. |

WPO (NORTH)

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

| Sl. No. | Location Village & Range | Work Description | No. of pillars & 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°55'14.6"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 pillars & Year | Geo-co-ordinates | 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 suitable 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 | <p>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.</p> <p>The area covered with grasses, thin foliage and shrub are cleared as a fireline measuring four metres wide.</p> <p>The cleared area appeared to be able to contain and control forest fire during the time of creation.</p> |
| 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 | <i>Michelia champaca</i> , <i>Lagerstroemia speciosa</i> , <i>Jacarand</i> , <i>Terminalia</i> , <i>Bischofia javanica</i> | 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 rooftruss and iron frame works. |

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

| SL. No. | Location Village & Range | Area & Year | Species planted | Survival % | Avg Height | Geo-co-ordinates | Comments/ Remarks |
|---------|---|-------------------|---|------------|------------|------------------------------|--|
| 1. | Tlangpui, Tlangpui Village, Siaha Range | 20 ha. 2020-21 | <i>Michelia champaca</i> , <i>Jacaranda</i> , <i>Michelia champacca</i> , <i>Toona ciliata</i> | 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-ordinates | 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 requirement 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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|--------------------------|------------------|---|------------|-------------|--------------------------------|---|
| 1. | Mampui, Lawngtlai Range | 4.81 ha. 2021-22 | <i>Michelia champacca</i> , <i>Terminalia</i> , <i>Bischofia javanica</i> , | 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-ordinates | 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°26'14.27"N 92°55'34.25"E | |

3. Maintenance of Nurseries (2021-2022):

| Sl. No. | Location Village & Range | No. of Seedlings | Avg. Height | Geo-co-ordinates | 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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|---------------------------|----------------|--|------------|-------------|--------------------------------|---|
| 1. | Paithar , Lawngtlai Range | 20 ha. 2020-21 | <i>Michelia champacca</i> , <i>Lagerstroemia</i> , <i>Syzygium cumini</i> , <i>Terminalia</i> , <i>Bischofia javanica</i> , <i>etc.</i> | 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-ordinates | 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 | Survival % | Avg. Height | Geo-co-ordinates | Comments/Remarks |
|---------|---|-------------------|--|------------|-------------|-------------------------------|---|
| 1. | Palenasora Palenasora Kamalanagar Range | 10 ha. 2020-21 | <i>Xylia xylocarpa</i> , <i>Mangifera indica</i> and <i>Bamboo species</i> | 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 | <i>Xylia xylocarpa</i> , <i>Mangifera indica</i> and <i>Bamboo species</i> | 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-ordinates | 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-ordinates | Comments/Remarks |
|---------|-----------------------------------|--|---|---|
| 1. | Sadara Sora, Kamalanagar Range | <i>Michelia champaca</i> , <i>Xylia xylocarpa</i> , <i>Mangifera indica</i> and <i>Bamboo species</i> | 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

| | | |
|---------------------------------------|--|------------------|
| QUANTITATIVE 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 (SEVA)
General Headquarters, Aizawl, Mizoram
Registration No. SR/MZ-13 of 2003-2004**

Name of Evaluator : K. BIAK THIANG HLIMA

Signature :

Designation : President, SEVA

Date : 28th February, 2024

Contact Number : 9436388945

Seal :