**GOVERNMENT OF MIZORAM**
**OFFICE OF THE DIVISIONAL FOREST OFFICER**
**THENZAWL FOREST DIVISION**
**THENZAWL : MIZORAM**

*email id: thenzawlforest@gmail.com*

No.G.26016/1/2014-TFD/ 463 -465 Dated Thenzawl, the 29th July, 2022

To,

The APCCF & Nodal Officer (FC)
Mizoram, Aizawl

***Subject :*** ***Proposal for diversion of 2,43278 HA of forest land for construction of ByPass at Chhiahtlang and Serchhip (Package-I)on Aizawl-Tuipang section of NH-54 in the State of Mizoram***

***Ref. :*** ***No.B.22019/21/2020-FC/PCCF/192 Dt.26.7.2022.***

Sir,

With reference to the above, I am to submit herewith the required information/documents sought by your kind office vide the letter referred to above.

| Sl No | Additional information required | Action taken by DFO |
|---|---|---|
| 1 | The CA scheme submitted at the cost of Rs 11, 02,100.00 is for maintenance of period of 8yeras, whereas as per guidelines maintenance period is 10 years. The same may be submitted for after revision for 10 years maintenance | Revised estimate prepared and submit herewith at Annexure -I |
| 2 | As per letter dated 8.8.2022 of DCF (FC), Mizoram it has been mentioned there is violation of FC Act in the proposal. The State Government may assess the extent of violation and calculate the penalty as per FC Act 1980 guidelines Para 1.21(ii) if any of the FC Act along with full details of violation | Please see Annexure -II |
| 3 | The calculation of Net Present Value is @ 7.30/ha Hence NPV may be calculated as per Ministry's latest guidelines dated 06.01.2022 | Enclosed at Annexure - III |

This is for kind information and necessary action

Enclo : As above.

Yours faithfully,

29/7/22

**(LALBIAKCHAMA CHAWNGTHU)**
Divisional Forest Officer
Thenzawl Forest Division

Memo No.G.26016/1/2014-TFD/_____ Dated Thenzawl, the 29th July, 2022

Copy to:

(1) Conservator of Forests (CC), Aizawl for mkind information.

(2) General Manager (LA&Coord),NHIDCL, Regional Office, Aizawl, 3rd Floor ,T- 86 Tuikhhuahtlang for kind information.

Divisional Forest Officer
Thenzawl Forest Division

Annexure-I

# DETAILED COMPENSATORY AFFORESTATION SCHEME FOR DIVERSION OF 2.43278 HA. FOR CONSTRUCTION OF BY PASS AT CHHIAHTLANG & SERCHHIP (PACKAGE-I) ON AIZAWL-TUIPANG SECTION OF NH-54

| | | | |
|---|---|---|---|
| 1 | Model of afforestation | : | Artificial Regeneration |
| 2 | Species proposed to be planted | : | *Mangifera indica*<br>*Bischofia javanica*<br>*Michelia champaca*<br>*Terminalia myriocarpa*<br>*Cedrilla toona*<br>*Toona Ciliata* |
| 3 | Implementing Agency | : | Environment, Forests & Climate Change Department, Mizoram |
| 4 | Time scheduled | : | Advanced work and creation of plantation and maintenance upto 10th year. |

## ANALYSIS OF PER HA RATE FOR VARIOUS WORK ITEMS UNDER COMPENSATORY AFFORESTATION TO BE TAKEN UP UNDER FOREST (CONSERVATION) ACT, 1980

*(Rs. 380/- per manday)* *(1100 plants per ha)*

| S.N | | Item of work | Manday required (in No.) | Labour Component (in Rs.) | Material Component (in Rs.) | Cost/Ha (in Rs.) |
|---|---|---|---|---|---|---|
| *1* | *2* | *3* | *4* | *5* | *6* | *7* |
| 1 | | **Advance works including nursery** | | | | |
| | *(a)* | Survey and demarcation including mapping | 3 | 1140 | | 1140 |
| | *(b)* | Area preparation by cutting grasses & shrubs | 20 | 7600 | | 7600 |
| | *(c)* | Fire line cutting burning and maintenance | 6 | 2280 | | 2280 |
| | *(d)* | Clearance of site for nursery, preparation of nursery bed, filling of poly-bags, manuring shed erection | 20 | 7600 | | 7600 |
| | *(e)* | Cost of seeds, poly-bags, implements etc | 0 | 0 | 1890 | 1890 |
| | *(f)* | Treatment and sowing of seeds | 5 | 1900 | | 1900 |
| | *(g)* | Weeding & watering | 11 | 4180 | | 4180 |
| | | **Sub Total :** | **65** | **24700** | **1890** | **26590** |
| 2 | | **Creation of Plantation** | | | | |
| | | (a) Site preparation, alignment, prepareation of stakes, digging of pits, preparation of planting material , carriage of planting iste, Planting / sowing, construction of camp shed, inspection path/ signboard and other misc. works | 25 | 9500 | | 9500 |
| | | (b) Weeding 3 times including vacancy filling and watch & ward | 67 | 25460 | | 25460 |
| | | (c) Fire protection measures like fire line cutting, engagement of fire watchers | 3 | 1140 | | 1140 |
| | | **Sub Total :** | **95** | **36100** | | **36100** |
| 3 | | **Maintenance of Plantation** | | | | |
| | ***(i) Maintenance after 1st Year*** | | | | | |
| | *(a)* | Weeding 3 times + vacancy filling (10+9+5) | 24 | 9120 | | 9120 |
| | *(b)* | Fire protection measures | 3 | 1140 | | 1140 |
| | | **Sub Total :** | **27** | **10260** | **0** | **10260** |

| S.N | | Item of work | Manday required (in No.) | Labour Component (in Rs.) | Material Component (in Rs.) | Cost/Ha (in Rs.) |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | ***(ii) Maintenance after 2 years*** | | | | |
| | (a) | Weeding 2 times (10+5) | 15 | 5700 | | 5700 |
| | (b) | Fire protection measures | 3 | 1140 | | 1140 |
| | (c) | Add 25% of 3(ii) column 5 total labour component for anticipated revision of wage rate | | | | 1710 |
| | | **Sub Total :** | **18** | **6840** | **0** | **8550** |
| | | ***(iii) Maintenance after 3 years*** | | | | |
| | (a) | Weeding 2 times (8+5) | 13 | 4940 | | 4940 |
| | (b) | Fire protection measures | 3 | 1140 | | 1140 |
| | (c) | Add 25% of 3(iii) column 5 total labour component for anticipated revision of wage rate | | | | 1520 |
| | | **Sub Total :** | **16** | **6080** | **0** | **7600** |
| | | ***(iv) Maintenance after 4 years*** | | | | |
| | (a) | Weeding 2 times (8+5) | 13 | 4940 | | 4940 |
| | (b) | Fire protection measures | 3 | 1140 | | 1140 |
| | (c) | Add 50% of 3(iv) column 5 total labour component for anticipated revision of wage rate | | | | 3040 |
| | | **Sub Total :** | **16** | **6080** | **0** | **9120** |
| | | ***(v) Maintenance after 5 years*** | | | | |
| | (a) | (a) Weeding / tending | 12 | 4560 | | 4560 |
| | (b) | (b) Fire protection measures | 2 | 760 | | 760 |
| | (c) | Add 50% of 3(v) column 5 total labour component for anticipated revision of wage rate | | | | 2660 |
| | | **Sub Total :** | **14** | **5320** | **0** | **7980** |
| | | ***(vi) Maintenance after 6 years*** | | | | |
| | (a) | Weeding / tending | 12 | 4560 | | 4560 |
| | (b) | Fire protection measures | 2 | 760 | | 760 |
| | (c) | Add 75% of 3(vi) column 5 total labour component for anticipated revision of wage rate | | | | 3990 |
| | | **Sub Total :** | **14** | **5320** | **0** | **9310** |
| | | ***(vii) Maintenance after 7 years*** | | | | |
| | (a) | Weeding / tending | 10 | 3800 | | 3800 |
| | (b) | Fire protection measures | 2 | 760 | | 760 |
| | (c) | Add 75% of 3(vii) column 5 total labour component for anticipated revision of wage rate | | | | 3420 |
| | | **Sub Total :** | **12** | **4560** | **0** | **7980** |
| | | ***(viii) Maintenance after 8 years*** | | | | |
| | (a) | (a) Weeding / tending | 10 | 3800 | | 3800 |
| | (b) | (b) Fire protection measures | 2 | 760 | | 760 |

| S.N | | Item of work | Manday required (in No.) | Labour Component (in Rs.) | Material Component (in Rs.) | Cost/Ha (in Rs.) |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | (c) | Add 100% of 3(viii) column 5 total labour component for anticipated revision of wage rate | | | | 4560 |
| | | **Sub Total :** | **12** | **4560** | **0** | **9120** |
| | ***(ix) Maintenance after 9 years*** | | | | | |
| | (a) | Weeding / tending | 8 | 3040 | | 3040 |
| | (b) | Fire protection measures | 2 | 760 | | 760 |
| | (c) | Add 100% of 3(ix) column 5 total labour component for anticipated revision of wage rate | | | | 3800 |
| | | **Sub Total :** | **10** | **3800** | **0** | **7600** |
| | ***(x) Maintenance after 10 years*** | | | | | |
| | (a) | (a) Weeding / tending | 8 | 3040 | | 3040 |
| | (b) | (b) Fire protection measures | 2 | 760 | | 760 |
| | (c) | Add 100% of 3(x) column 5 total labour component for anticipated revision of wage rate | | | | 3800 |
| | | **Sub Total :** | **10** | **3800** | **0** | **7600** |
| **Total of Plantation Cost** | | | **309** | **117420** | **1890** | **147810** |
| **4** | | **Soil & Moisture Conservation measures including construction of check dams, gully plugging, contour trenching water harvesting structures etc. whatever necessary within the project area (15% of plantation cost)** | | | | 22171 |
| **5** | | **Fencing (5% of plantation cost)** | | | | 7390 |
| **6** | | **Monitoring & Evaluation (2% of plantation cost)** | | | | 2956 |
| **7** | | **Overheads (10% of plantation cost)** | | | | 14781 |
| | | **GRAND TOTAL** | | | | **195108** |

**Cost of CA for Construction of By Pass at Chhiahtlang & Serchhip ( Package-I) on Aizawl to Tuipang Section of NH-54**
**(2.43278 x Rs 195108) = Rs 4,74,654.84 /- or say Rs. 4,74,655/-**

**(Rupees four lakhs seventy four thousand six hundred and fifty five) only**

**(LALBIAKCHAMA CHAWNGTHU)**
Divisional Forest Officer
Thenzawl Forest Division

Annexure-II

## EXTENT OF VIOLATION AT BY PASS AT CHHIAHTLANG & SECHHIP (PACKAGE –I) ON AIZAWL-TUIPANG SECTION OF NH-54 AND CALCULATION OF PENALTY

### EXTENT OF VIOLATION

As per office record of DFO Office, Thenzawl Forest Division, there has been violation of Forest Conservation Act 1980 while constructing By Pass at Chhiahtlang and Serchhip (Package –I) on Aizawl - Tuipang section of NH-54. Till date, the User Agency (NHIDCL) has not obtained Stage –I approval (IPA) for this package. However it was found that the excavation- earth cutting and dumping of spoil had started in 2020.

Further, it was also found that the User Agency has not complied with the Muck Disposal Plan for this Package submitted to Govt of India. The irregular muck disposal along By Pass had caused huge environmental damages such as loss of perennial streams, destruction of vegetation and siltation of rivers in the downhill areas etc.

The Inspection Report of Range Officer concerned shows that the total damage area of land (land covered by disposed muck) due to irregular muck disposal along By Pass Road is 9.50 Ha (4.00 Ha along Chhiahtlang By Pass and 5.50 Ha along Serchhip By Pass)

### CALCULATION OF PENALTY

**The forest area diverted for** construction of By Pass at Chhiahtlang & Serchhip (Package-I) on Aizawl-**Tuipang section of NH-54 is** 2.43278Ha

**Eco Class: I; Canopy Density**: 0.5% and therefore NPV Rate / Ha = Rs 14, 36,670.00

**Now, Total NPV to be paid by** User Agency
**Rs 14, 36,670.00 x 2.43278** = Rs 34, 95,102.00

**And Road Project being public** utility project, Monetary Penalty after 2 years as per FC Act 1980 **guidelines Para 1.21(ii)**

**Rs 34, 95,102.00x 2 x 20%** = Rs 13, 98,040.80 Say Rs 13, 98,040.00

***Therefore, the monetary penalty to be paid by UA is Rs 13, 98,040.00 (Rupees thirteen lakh ninety eight thousand and forty plus 12% simple interest till the deposit is made.***

(LALBIAKCHAMA CHAWNGTHU)
Divisional Forest Officer
Thenzawl Forest Division

Annexure -III

**NPV FOR DIVERSION OF 2.43278 HA OF FOREST LAND FOR CONSTRUCTION OF BYPASS AT CHHIAHTLANG & SERCHHIP (PACKAGE-I) ON AIZAWL-TUIPANG SECTION OF NH-54 IN THE STAE OF MIZORAM**

Name of project: CONSTRUCTION OF BYPASS AT CHHIAHTLANG & SERCHHIP (PACKAGE-I) ON AIZAWL-TUIPANG SECTION OF NH-54 IN THE STAE OF MIZORAM

| | | |
|---|---|---|
| Name of User Agency | : | NHIDCL |
| State | : | Mizoram |
| District | : | Serchhip |
| Division | : | Thenzawl Forest Division |
| Area of Forest land proposed to be diverted | : | 2.43278 Ha |
| Eco-Class | : | Class I |
| Forest Cover | : | Dense Forest |
| NPV Rate | : | Rs.14, 36,670/-per Ha |
| Total NPV | : | **Rs. 34, 95,102.0426** |
| | | **Say Rs. 34, 95,102.00** |

(***Rupees thirty four lakhs ninety five thousand one hundred and two***) **only.**

**(LALBIAKCHAMA CHAWNGTHU)**
Divisional Forest Officer
Thenzawl Forest Division
Thenzawl : Mizoram