



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

Email id: thenzawlforest@gmail.com

No.B.13026/1/2022-TFD/ 581

Dated Thenzawl, the 12th August, 2022

To,

✓
The Addl. Principal Chief Conservator of Forests (FC)
Aizawl, Mizoram

Subject : *Proposal for diversion of 2.43278 ha. forest land for construction of Bypass at Chhiahtlang and Serchhip (Package-a) on Aizawl-Tuipang section of NH-54 in the state of Mizoram, Engineering, Procurement and Construction (EPC) mode with JICA loan assistance.*


Ref. : *No.B.22019/20/2020-FC/PCCF/200 Dt.11.08.2022.*

Sir,

With reference to the above, I have the honour to re-submit herewith CA Scheme, rectified calculation of penalty as per FCA 1980 guidelines para-1.21(ii) of Ministry letter F.No.11-42/2017-FC dt. 29.01.2018 and NPV as per Ministry guidelines dt. 06.01.2022 for kind information and necessary action.

Enclo : As above.

Yours faithfully,


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

**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*
Bischofia javanica
Michelia champaca
Terminalia myriocarpa
Cedrella toona
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, preparation of stakes, digging of pits, preparation of planting material, carriage of planting material, 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

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
 $\text{Rs } 14, 36,670.00 \times 2.43278 = \text{Rs } 34, 95,102.00$

And Road Project being public utility project, Monetary Penalty to be paid by User Agency as per FC Act 1980 guidelines Para 1.21(ii)

$\text{Rs } 34, 95,102.00 \times 5 \times 20\% = \text{Rs } 34, 95,102.00$

Therefore, the monetary penalty to be paid by UA is Rs 34, 95,102.00 (Rupees thirty four lakh ninety five thousand one hundred and two plus 12% simple interest till the deposit is made.



(LALBIAKCHAMA CHAWNGTHU)
Divisional Forest Officer
Thenzawl Forest Division

**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 STATE OF MIZORAM**

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