

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

No.B.22019/14/2021-FC/PCCF/ 59

Dated Aizawl the 25th May, 2022

To

General Manager (LA &Coord)
NHIDCL, RO – Aizawl
3rd floor, T-86 Tuikhhuatlang
Email: ro-mizoram@nhidcl.com

Subj : Submission of Demand Estimate

Ref: YL No. NHIDCL/RO-AIZAWL/Forest – CA/2021/899 Dt. 06.04.2022

Sir,

I am directed to inform you for payment of amounts towards CA, NPV, Avenue Plantation and felling of trees in respect of diversion of 4.3629 ha of Forest land for widening and upgradation of NH 54 to 2 lane Package 3 (Deemed Forest) as follows:

1. C.A	- Rs. 8,45,466
2. NPV	- Rs. 60,97,642.01
3. Avenue Plantation	- Rs. 49,23,610
Total	- Rs. 1,18,66,718.01

The payment for CA, NPV & Avenue Plantation is to be made online through PARIVESH as stipulated at condition No. 1,2 &3 of In-Principle Approval dated 22.03.2022 (Copy enclosed).

Further, since there is balance amount out of last payment made by the NHIDCL for felling of project affected trees against proposal for diversion of forest land for Widening & upgradation of NH 54 to 2 lane (Package I, II & III) [balance out of Rs. 37,19,490 deposited against the lump - sum estimate vide letter No. B.22019/13/2019-FC/PCCF/135 Dt. 16.11.2019(copy enclosed)]. Thus, the present estimate of Rs. 2,12,060/- for felling of trees shall be adjusted with the above said balance amount.

Yours faithfully,

Enclo: As above


(MZ SINGSON)
Deputy Conservator of Forests(FC)

Dated Aizawl the 25th May, 2022

Memo No.B.22019/14/2021-FC/PCCF/ 59

Copy to

1. Conservator of Forests (SC) for information.
2. Divisional Forest Officer, Lunglei Forest Division for information.
3. Deputy Conservator of Forest, LADC for information.
4. Under Secretary to the Govt. of Mizoram, EF&CC Deptt. for information.
5. Concern file for Package I, II &III.


Assistant Conservator of Forest (FC)



भारत सरकार
GOVERNMENT OF INDIA
एकीकृत क्षेत्रीय कार्यालय
INTEGRATED REGIONAL OFFICE
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
लॉड सीब लुम्बतंगेन/LAW-U-SIB, LUMBATNGEN,
शिल्लोंग/SHILLONG-793021
Tel. 0364-2537278; Fax. 0364-2536041
E-mail: moefro.shillong@gov.in



No.3-MZ.B 058/2020-SHI/ 3305-06

22nd March, 2022

To,

Principal Secretary,
Government of Mizoram,
Environment, Forests & Climate Change Department,
Aizawl-796001.

Sub : Proposal for diversion of 4.3629 ha of forest land for widening and upgradation of NH-54 to 2-lane with pave shoulder and geometric improvements in the State of Mizoram (Package-3)- Deemed Forest area by NHIDCL.

Sir,

This has got reference to the State Government of Mizoram letter No.G.20015/2/2020-FST dated 04.09.2020 on the subject mentioned above seeking prior approval of the Central Government under Section-2 of the Forest (Conservation) Act, 1980.

2. After careful examination of the proposal of the State Government of Mizoram and the additional information submitted vide their letter No.B.22019/14/2019-FC/PCCF/296-92 dated 09.03.2021 and No.G.20015/2/2020-FST dated 08.03.2022, the **In-principle / Stage-I approval** of the Central Government is hereby granted for diversion of **4.3629 ha** of forest land for widening and upgradation of NH-54 to 2-lane with pave shoulder and geometric improvements in the State of Mizoram (Package-3)-Deemed Forest area by NHIDCL, subject to the following conditions:

A: Conditions which need to be complied prior to handing over of forest land by the State Forest Department.

1. The user agency shall transfer, the Net Present Value (NPV) of the forest land being diverted under this proposal, as per the Ministry's Guideline No.5-3/2011-FC (Vol.I) dated 06.01.2022 and even No. dated 19.01.2022. The requisite funds shall be transferred through online portal into CAMPA account of the State concerned;
2. The user agency shall transfer the cost of raising and maintaining the compensatory afforestation at the current wage rate in consultation with State Forest Department in the account of CAMPA of the concerned State through online portal. The scheme may include appropriate for anticipated cost increase for works scheduled for subsequent years;
3. The user agency shall transfer the cost of raising Avenue plantation on the road side with the State Forest Department to CAMPA account only through e-portal;
4. All the funds received from the user agency under the project shall be transferred/deposited to CAMPA account only through e-portal (<https://parivesh.nic.in>). Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance;
5. The NPV is to be calculated as per the latest guidelines of MoEF & CC dated 06.01.2022.

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6. The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the District Collector;

7. The KML files of the area to be diverted, the CA area shall be uploaded on the e-Green watch portal with all requisite details before issuing working permission towards linear projects or submitting compliance report for seeking Stage-II approval, as the case may be;

8. Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-Fc dated 28.03.2019;

9. The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;

10. Undertaking from the user agency for providing proper drainage of retaining / breast wall in steep slopes and stabilization of side slope to avoid soil erosion and landslides; and to provide drains / cross drains. Physical barriers / structures to prevent muck from entering streams & rivers and other ecologically sensitive areas are to be constructed on the lower slope side, if required, before any construction works are started;

11. The compliance report shall be uploaded on e-portal (<https://parivesh.nic.in/>);

B: Conditions which need to be strictly complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval:

1. Legal status of the diverted forest land shall remain unchanged;

2. Compensatory Afforestation shall be raised over equivalent non-forest i.e. 4.83 ha identified by the State Forest Department at 2 (two) patches i.e. 3.83 ha at Lawngtlai Range and 38 ha at Suangpuiawn;

3. The non-forest land transferred and mutated in favour of the State Forest Department shall be notified by the State Government as Reserve Forest/Protected Forest under Section-4 or PF under Section-29 of the Indian Forest Act, 1927 or under the relevant Section(s) of the local Forest Act latest within a period of six months from the date of issue of Stage-II approval. The Nodal Officer shall report compliance in this regard along with a copy of the original notification declaring the non-forest land under Section 4 or Section 29 of the Indian Forest Act, 1927 or under the relevant Section(s) of the local Forest Act as the case may be, within the stipulated period to the Central Government for information and record.

4. The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;

5. No damage to the flora and fauna of the adjoining area shall be caused;

6. The layout plan of the proposal shall not be changed without the prior approval of the Central Government;

7. The concerned Divisional Forest Officer, will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area;

8. The user agency shall undertake re-grassing of the muck dumping area and restore the land to a condition which is fit for growth of fodder, flora, fauna etc;
9. The User Agency shall submit the annual self-compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year;
10. The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project;
11. All other clearance/NOCs under different applicable rules/regulations /local laws and under Forest Dwellers (Recognition of Forest Rights) Act, 2006 as required vide MoEF, New Delhi guideline No.11-9/1998-FC(pt) dated 03.08.2009 shall be complied with;
12. As per Ministry's letter No 11-30/96-FC(Pt) dt 14.9.2001, if the compliance of stipulated conditions is awaited from the State Govt for more than 5(five) years, the in-principle approval would be summarily be revoked considering that the user agency is no longer interested in the project;
3. After receipt of the compliance report from the State Government on fulfilment of the conditions mentioned above, final approval will be issued in this regard. Formal transfer of forest land shall not be effected by the State Govt till final approval is granted by the Central Government.

This is issued with approval of Deputy Director General of Forests (C).

भवदीय,

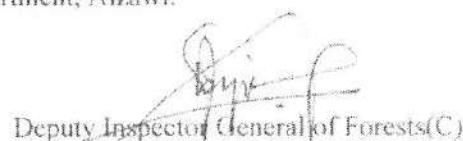


(Mrs. L.J. Syiemiong)

वन उप महानिरीक्षक (केंद्रीय) /Deputy Inspector General of Forests (C)

Copy to:

1. Additional Principal Chief Conservator of Forests & Nodal Officer (FC), Govt. of Mizoram, Department of Environment, Forests & Climate Change Department, Aizawl.



Deputy Inspector General of Forests(C)

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**LAI AUTONOMOUS DISTRICT COUNCIL
ENVIRONMENT, FOREST & CLIMATE CHANGE DEPARTMENT
LAWNGTLAI: MIZORAM**

No.B.13016/3/2018-LADC/EFD

Dated Lawngtlai, the 9th May, 2022

To,

**Deputy Conservator of Forest (FC)
Government of Mizoram
Mizoram : Aizawl**

Subj : Submission of Estimate for CA in respect of LADC forest Division.

Sir,

I have the honour to submit a copy of Estimate for CA in respect of the project proposal on diversion of 3.83hac of forest land for widening & Up-gradation of NH-54 to 2-lane (PACKAGE-3) – Deemed forest for favour of your kind information and onward necessary action.

Enclo : as above

Yours Faithfully

11/5
ACF (FC)
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11/5/22
(K.LALROMAWIA)
District Council Conservator of Forest
Lai Autonomous District Council
Lawngtlai

DETAILED COMPENSATORY AFFORESTATION SCHEME

1. Model of afforestation : Artificial Regeneration
2. Species proposed to be Planted : *Artocarpus chaplasi*
Bischofia javanica
Michelia champaca
Terminalia myriocarpa
Cedrella toona
Toona ciliata
Mesua ferrea
3. Implementing Agency : Environment, Forest & Climate Change Department, Mizoram
4. Time scheduled : Advanced work and creation of plantation and maintenance upto 8th years

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)

Sl.N	Item of work	Manday required (in No.)	Labour Component (in Rs)	Material Component (in Rs)	Cost/Ha (in Rs)
1	Advance works including nursery	3	4	5	6
	(a) Survey and demarcation including mapping	3	1,140		1,140
	(b) Area preparation by cutting grasses & shrubs	20	7,600		7,600
	(c) Fire line cutting, burning and maintenance	6	2,280		2,280
	(d) Clearance of site for nursery, preparation of nursery bed, filling of poly-bags, manuring, shed erection	20	7,600		7,600
	(e) Cost of seeds, poly-bags, implements etc	0		1,890	1,890
	(f) Treatment and sowing of seeds	5	1,900		1,900
	(g) Weeding & watering	11	4,180		4,180
	Sub Total	65	24,700	1,890	26,590
2	Creation of plantation				
	a) Site preparation, alignment, preparation of stakes, digging of pits, preparation of planting materials, carriage to planting site, planting/sowing, construction of camp shed, inspection path, signboard and other misc. works	25	9,500		9,500

	(b) Weeding 3 times including vacancy filling and watch & ward	67	25,460		25,460
	(c) Fire protection measures like fire line cutting, engagement of fire watchers	3	1,140		1,140
	Sub Total	95	36,100		36,100
3	Maintenance of Plantation				
	(i) Maintenance after 1st year				
	(a) Weeding 3 times + vacancy filling (10+9+5)	24	9,120		9,120
	(b) Fire protection measures	3	1,140		1,140
	Sub Total	27	10,260		10,260
	(ii) Maintenance after 2 years				
	(a) Weeding 2 times (10+5)	15	5,700		5,700
	(b) Fire protection measures	3	1,140		1,140
	Add 25% for anticipated revision of wage rate				1710
	Sub Total	18	6,840		8,550
	(iii) Maintenance after 3 years				
	(a) Weeding 2 times (8+5)	13	4,940		4,940
	(b) Fire protection measures	3	1,140		1,140
	Add 25% for anticipated revision of wage rate				
	Sub Total	16	6,080		7,600
	(iv) Maintenance after 4 years				
	(a) Weeding 2 times (8+5)	13	4,940		4,940
	(b) Fire protection measures	3	1,140		1,140
	Add 50% for anticipated revision of wage rate				3,040
	Sub Total	16	6,080		9,120
	(v) Maintenance after 5 years				
	(a) Weeding/tending	12	4,560		4,560
	(b) Fire protection measures	2	760		760
	Add 50% for anticipated revision of wage rate				2660
	Sub Total	14	5,320		7,980
	(vi) Maintenance after 6 years				
	(a) Weeding/tending	12	4,560		4,560
	(b) Fire protection measures	2	760		760
	Add 75% for anticipated revision of wage rate				3,990
	Sub Total	14	5,320		9,310
	(vii) Maintenance after 7 years				
	(a) Weeding/tending	10	3,800		3,800
	(b) Fire protection measures	2	760		760
	Add 75% for anticipated revision of wage				3,420

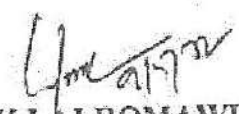
	rate				
	Sub Total	12	4,560		7,980
	(viii) Maintenance after 8 years				
	(a) Weeding/tending	10	3,800		3,800
	(b) Fire protection measures	2	760		760
	Add 100% for anticipated revision of wage rate				4,560
	Sub Total	12	4,560		9120
	Total of Plantation Cost	289	1,09,820	1890	1,32,610
4	Soil & Moisture Conservation measures including construction of check dams, gully plugging, contour trenching, water harvesting structures etc. whatever necessary within the project area (15% of plantation cost)				19,892
5	Fencing (5% of plantation cost)				6,631
6	Monitoring & Evaluation (2% of plantation cost)				2,652
7	Overheads (10% of plantation cost)				13,261
	Grand Total :				1,75,046

Cost of CA

(3.83 ha x 1,75,046) = Rs. 6,70,426)

(Rupees Six lakhs seventy thousand four hundreds twenty six only)

Prepared by


(K. LALROMAWIA)
District Council Conservator of Forest
LADC Forest Division

LAI AUTONOMOUS DISTRICT COUNCIL
OFFICE OF THE DISTRICT COUNCIL CONSERVATOR OF FOREST
DEPARTMENT OF ENVIRONMENT, FORST & CLIMATE CHANGE
LAWNGTLAI ::: MIZORAM

No.N.11013/7/2016 - LADC/EFD

:

Dated Lawngtlai; the 5th April, 2022

To,

Deputy Conservator of Forest (FC)
Environment, Forest & Climate Change Department
Aizawl : Mizoram

Subj : Proposal for diversion of 4.3629 ha of forest land for widening and upgradation of NH – 54 to 2 – lane with pave shoulder and geometric improvements in the State of Mizoram (Package 3)

Ref : No.B.22019/14/2021-FC/PCCF/26 of 30/3/22

Sir,

I am furnishing herewith the estimate for Net Present value (NPV) in respect of the project mention in the above subject, as per guidelines issued by the Ministry of Environment, Forest and Climate Change for favour of your kind information and necessary action.

Encl :As above.


(K. LALROMAWIA)

District Council Conservator of Forest
Lai Autonomous District Council
Lawngtlai

Memo No.N.11013/7/2016 - LADC/EFD

:

Dated Lawngtlai; the 5th April, 2022

Copy to:-

- 1) *Conservator of Forest (SC) for kind information.*
- 2) *General manager(P), PMU, Lawngtlai NHIDCL for information*
- 3) *Office Copy*

District Council Conservator of Forest
Lai Autonomous District Council
Lawngtlai

27

**ESTIMATE FOR NPV FOR DIVERSION OF 3.83HAC OF FOREST LAND
UNDER LADC**

Name of the Project : Widening and Up-gradation of NH 54 to 2 – Lane with shoulder
and geometric improvement from Km 8.00 to Km 380.00

Name of User Agency: NHIDCL

Sate : Mizoram

District : Lawngtlai

Division : LADC Forest Division

Area of Forest land
proposed to be : 3.83 Ha

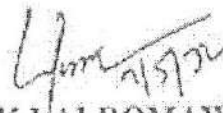
Eco-Class : Class - I

Forest Cover : Dense Forest

NPV Rate : ₹ 14,36,670 per Ha

Total NPV : ₹ 55,02,446/-

(Rupees Fifty Five Lakhs Two Thousands Four Hundreds Forty Six Only)


(K. LALROMAWIA)
District Council Conservator of Forest
Bulai Autonomous District Council

178

**LAI AUTONOMOUS DISTRICT COUNCIL
ENVIRONMENT, FOREST & CLIMATE CHANGE DEPARTMENT
LAWNGTLAI, MIZORAM**

No.B.13016/3/2018-LADC/EFD

Dated Lawngtlai, the 9th May, 2022

To,

Deputy Conservator of Forest (FC)
Government of Mizoram
Mizoram : Aizawl

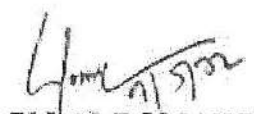
Subj : Submission of Estimate for Roadside Avenue Plantation in respect of LADC forest Division.

Sir,

I have the honour to submit a copy of Estimate for Roadside Avenue Plantation in respect of the project proposal on diversion of 3.83hac of forest land for widening & Up-gradation of NH-54 to 2-lane (PACKAGE-3) – Deemed forest for favour of your kind information and onward necessary action.

Encls : as above

Yours Faithfully


(K.L. ALROMAWIA)

District Council Conservator of Forest
Lai Autonomous District Council
Lawngtlai


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ACF (FC)
Lawngtlai
11/5

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ESTIMATE FOR ROADSIDE AVENUE PLANTATION ALONG NH-54 **UNDER LADC FOREST DIVISION, MIZORAM**

- | | | |
|-----------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Location | : | National Highway 54 |
| 2. Length of Road | : | 25kms |
| 3. No of row in each side of the Road | : | 2 |
| 4. Spacing | : | 2.7m |
| 5. No. of Seedling to be planted per km | : | 1480 nos. |
| 6. Species to be planted | : | <i>Lagestromia speciosa</i>
<i>Bauhinia variegata</i>
<i>Cassia fistula</i>
<i>Delonix regia</i>
<i>Artocarpus Sp</i>
<i>Ficus Sp</i>
<i>Sisyzium Cumuni</i>
<i>Mangifera indica</i> |


Labour rate Rs.380

SLN	Name of work	Manday required / km	Amount required / km	Remarks
A	Advance works including nursery			
I	Raising of Seedling			
	(1) Survey and demarcation including mapping	0.5	190	
	(2) Construction of inspection path	1	180	
	(3) Clearance of Nursery site including slash and debris burning	2	760	
	(4) Preparation of standard size bed including digging of soil, leveling and embankment on sloping ground for nursery bed	3	1140	
	(5) Construction of shades by using local materials like thatching grass etc.	2.5	950	
	(6) Preparation of germination bed by ploughing and digging of soil 25cms deep, sieving and removal of stones and twigs etc.	2	760	
	(7) Filling of poly pot with top soil	4	1520	
	(8) Application of manures, cow dung/ fertilizers etc.	0.5	190	
	(9) Fencing of Nursery materials locally available like Bamboo	1.5	570	

	and wooden posts			
	(10) Collection of Seeds	1.5	570	
	(11) Cost of Poly pot	-	5000	
	(12) Seed treatment and sowing of seed including Hoeing, Mulching etc.	0.2	76	
	(13) Watering for 2 months	2	760	
	(14) Weeding 4 times	6	2280	
	(15) Cost of Water Storage tank	Ls	800	
	(16) Display of signboard and signage	Ls	400	
	(17) Cost of Nursery tools	Ls	500	
	(18) Costs of FYM, Fertilizers, insecticide etc.	Ls	1200	
II	Second Year Maintenance			
	(1) Weeding 3 times	4.5	1710	
	(2) Watering	2	760	
	(3) Application of Fertilizers/FYM	0.5	190	
	(4) Maintenance of shade and fencing	0.5	190	
	Sub Total		20,896	
	Total for 30 beds		6,26,880	
B	Creation of Plantation			
I	Planting of Seedlings			
	(1) Survey and demarcation including mapping	2	760	
	(2) Clearance side incl. slush and debris burning	10	3800	
	(3) Alignment and pegging	3	1140	
	(4) Digging of pitch (0.40 m x 0.40mx 0.50m) 370 Nos.	15	5700	
	(5) Filling up of pits with application of fertilizers, organic manures	3	1140	
	(6) Transportation of seedling incl loading and unloading	-	1520	
	(7) Planting potted seedling in pits	12	4560	
	(8) Fencing of planted seedling using Bamboo	48	18240	
	(9) Watering	10	3800	
	(10) 1 st Weeding	20	7600	
	(11) 2 nd Weeding	20	7600	
	(12) 3 rd Weeding	20	7600	
	(13) Watch and ward	2	760	
II	1 year Maintenance			
	(1) Casualty replacement	11	4180	
	(2) 1 st Weeding	20	7600	
	(3) 2 nd Weeding	18	6840	
	(4) 3 rd Weeding	18	6840	

	(5) Watering	10	3800	
	(6) Fire prevention measures	6	2280	
	(7) Repair of fencing	4	1520	
III	2 year Maintenance			
	(1) Casualty replacement	8	3040	
	(2) 1 st Weeding	18	6840	
	(3) 2 nd Weeding	16	6080	
	(4) 3 rd Weeding	16	6080	
	(5) Watering	8	3040	
	(6) Fire prevention measures	6	2280	
	(7) Repair of fencing	4	1520	
IV	3 year Maintenance			
	(1) 1 st Weeding	16	6080	
	(2) 2 nd Weeding	14	5320	
	(3) 3 rd Weeding	14	5320	
	(4) Watering	5	1900	
	(5) Fire prevention measures	4	1520	
	(6) Repair of fencing	3	1140	
V	4 year Maintenance			
	(1) 1 st Weeding	13	4940	
	(2) 2 nd Weeding	13	4940	
	(3) Fire prevention measures	3	1140	
VI	5 year Maintenance			
	(1) 1 st Weeding	10	3800	
	(2) 2 nd Weeding	10	3800	
	(3) Fire prevention measures	3	1140	
	Sub Total	-	167200	
	Total for 25kms	-	41,80,000	
	Total of A & B above	-	48,06,880	

(Rupees Forty Eight lakhs Six thousand Eight hundreds Eighty only)


 (K. LALROMAWIA)
 District Council Conservator of Forest
 LADC Forest Division

52

LAI AUTONOMOUS DISTRICT COUNCIL
ENVIRONMENT, FOREST & CLIMATE CHANGE DEPARTMENT
LAWNGTLAI: MIZORAM

No.B.13016/3/2018-LADC/EFD

Dated Lawngtlai, the 9th May, 2022

To,

Deputy Conservator of Forest (FC)
Government of Mizoram
Mizoram : Aizawl

Subj : Submission of Estimate for felling of trees in respect of LADC forest Division.

Sir,


I have the honour to submit a copy of Estimate for felling of trees in respect of the project proposal on diversion of 3.83hac of forest land for widening & Up-gradation of NH-54 to 2-lane (PACKAGE-3) – Deemed forest for favour of your kind information and onward necessary action.

Encls : as above

Yours Faithfully


(K.LALROMAWIA)

District Council Conservator of Forest
Lai Autonomous District Council
Lawngtlai


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DCC (FC)
K. Lalromawia
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ESTIMATE FOR FELLING, LOGGING, TRANSPORTATION ETC. OF TREES TO BE FELLED FOR WIDENING OF NH-54 UNDER LADC FOREST DIVISION; MIZORAM

State : Mizoram

District : Lawngtlai

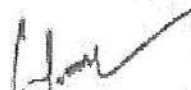
Division : LADC

No. of trees to be felled :

150 no's.

State : Mizoram		No. of trees to be felled :		150 no's.		Target		Remark
S/ No	Name of Work	Unit	Manday required	Rate per Unit	Phy	Fin		
1 Marking of trees/ logs								
a)	Stand Marking of tree	nos	0.06	22.80	150	3420	assuming that one person can do stand marking of 20 trees in a day	
b)	Log marking (of tree)	nos	0.20	18	150	1700	Assuming that one person can do stump and log marking at both cut ends of 45 logs of 10 trees in a day.	
Sub Total			0.26	40.8	-	6120		
2 Felling and logging								
a)	Felling of trees	nos	0.25	95	150	14250	assuming that one person can fell and lop about 4 trees in a day	
b)	Logging of tree	nos	0.33	125.4	150	18810	assuming that one person can convert 3 trees into 12-16 logs in a day	
Sub Total			0.58	220.4		33060		
3 Transportation, Stacking etc.								
a)	Collection , stacking of log at road head	nos	0.20	76	150	11400	assuming that one person can collect and stack 5 trees of 20-30 logs in a day	
b)	Loading of logs	nos	0.15	40.50	150	6075	assuming that one person can load 35 logs in a day	
c)	Transportation of log into Deptt. Depot	nos	LS	35.00	150	5250		
d)	Unloading of logs	nos	0.33	125.4	150	18810	assuming that one person can unload 50 logs in a day	
e)	Shorting and staging	nos	0.17	45.90	150	6885	assuming that one person can stack 30-40 logs in a day	
Sub Total				346.00		48420		
4	Contingencies /Overheads (10% of 1+2+3)	-	-	57	-	8760	purchase of tolls and implements	
Total of 1+2+3+4				664.2		96360		
5	Watch and wards for 4 months at road heads and Depot	man day	120	380	120	45600	watch and ward is to be provided until final disposal	
GRAND TOTAL						141960		

(Rupees One lakh Forty One Thousand Nine Hundred Sixty Only)


(K. LALROMAWIA)
 District Council Conservator of Forest
 Lawngtlai Autonomous District Council

54

**ESTIMATE FOR FELLING, LOGGING, TRANSPORTATION ETC. OF TREES TO BE
FELLED FOR WIDENING OF NH-54 UNDER SOUTHERN CIRCLE, MIZORAM**

State : Mizoram


District : Lawngtlai

Division : LADC

No. of poles to be felled : 90 no's.

S/ No	Name of Work	Unit	Manday required	Rate per Unit	Target		Remark
					Phy	Fin	
1	Marking of trees/ logs						
a)	Stand Marking of tree	nos	0.04	10.80	90	972	assuming that one person can do stand marking of 25 poles in a day
	Sub Total		0.04	10.80	-	972	
2	Felling and logging						
a)	Felling of trees	nos	0.11	30.00	90	2700	assuming that one person can fell and lop about 9 poles in a day
	Sub Total		0.11	30.00		2700	
3	Transportation, Stacking etc.						
a)	Collection , stacking of poles at road head	nos	0.06	16.20	90	1458	assuming that one person can collect and stack 15 poles in a day
b)	Loading of poles into truck	nos	0.03	8.10	90	729	assuming that one person can load 30-35 poles in a day
c)	Transportation of poles into Deptt. Depot	nos	LS	45.50	90	4095	Assuming that hire charge of truck carrying 100 poles up to 35kms is Rs 4550/-
d)	Unloading of poles	nos	0.03	8.10	90	729	assuming that one person can unload 30 poles in a day
e)	Shorting and staging of poles at depot	nos	0.03	8.10	70	567	assuming that one person can stack 30-40 poles in a day
	Sub Total			86.00		7578	
4	Contingencles /Overheads (10% of 1+2+3)	-	-	12.68	-	1125	purchase of tolls and implements, unforeseen expenditure
	GRAND TOTAL			139.48		12375	

(Rupees Twelve Thousand Three Hundred seventy Five Only)


(K.LALROMAWIA)

District Council Conservator of Forest
Lai Autonomous District Council

28

NoF.20017/2/2022-DFO(L)/35
GOVERNMENT OF MIZORAM
OFFICE OF THE DIVISIONAL FOREST OFFICER
LUNGLEI FOREST DIVISION
LUNGLEI : MIZORAM

BUANNEL RUN, Bazar veng, Lunglei
Email : lungleidfo@gmail.com

Dated Lunglei, the 5th April, 2022

To,

✓ The Principal Chief Conservator of Forests
Mizoram, Aizawl

Subject : Submission of estimate for NPV against diversion of 4.3629 Ha. of forest land for widening and upgradation of NH-54 to 2 - lane with pave shoulder and geometric improvements in the state of Mizoram (Package-3) – Deemed Forest area by NHIDCL

Reference : No.B.22019/14/2021-FC/PCCF/26 dt 30th March, 2022

Sir,

Referring the above, I have the honour to submit herewith estimate for NPV in respect of Lunglei Forest Division (0.5329 Ha out of total 4.3629 Ha) as shown below.


Eco-class	Density	Area (Ha.)	Rate / Ha.	Amount (in Rs.)
I	Open forest	0.5329	1116900	595196.01

Yours faithfully,


(PC LALCHHANDAMA)
Divisional Forest Officer

Copy to :

- 1) The Conservator of Forests (Southern Circle) for kind information.
- 2) General Manager (LA & Coord), NHIDCL, RO-Aizawl, T-86 3rd floor, Tuikhuahtlang, Aizawl.


Recd. No. 184
Date 5.4.22
Divisional Forest Officer

No. No.F.20017/2/2022-DFO(L)/1/6-50
 GOVERNMENT OF MIZORAM
 OFFICE OF THE DIVISIONAL FOREST OFFICER
 LUNGLEI FOREST DIVISION
 LUNGLEI : MIZORAM

BUANNEL RUN, Bazar veng, Lunglei
 Email : lungleidfo@gmail.com

Dated Lunglei, the 26th April, 2022

To,

✓ The Principal Chief Conservator of Forests
 Mizoram : Aizawl

Subject : *Re-submission of estimates for CA and Submission of estimate for felling of trees in forest area to be diverted for widening and upgradation of NH-54 to 2 – Lane (Package-3)- Deemed forest.*

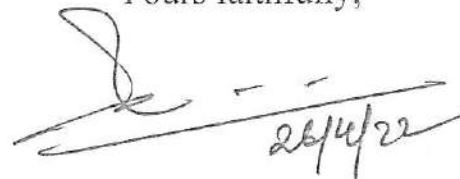
Ref : No.B.22019/14/2021-FC/PCCF/39. Dt. 12.4.2022

Sir,

With reference to the subject and letter No. cited above, I have the honour to submitting herewith corrected estimates for CA and estimates for felling of trees in forest area to be diverted for widening and upgradation of NH-54 to 2 – lane (Package – 3) –Deemed forest.


Enclo : As above.

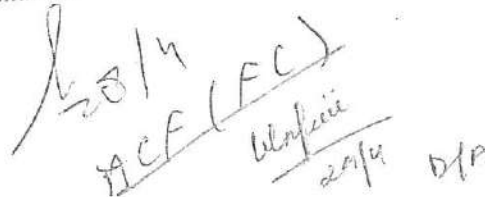
Yours faithfully,



(PC LALCHHANDAMA)
 Divisional Forest Officer

P/S OF PCCF
 Receipt No. 839
 Date 28.4.22





 28/4
 ACF (FC)
 28/4 D/A

Estimate for feeling of trees in forest area to be diverted for widening and upgradation of NH – 54 to 2 – lane (PACKAGE-3) – Deemed forest (In respect of Lunglei Forest Division – 0.5329 Ha)

Rs 380 per mandays

Sl No	Particulars	Rate (in Rs)	Amount (in Rs)	Remarks
1	a) Felling & logging of trees (31-60 cm girth) – 7 nos	3 mandays per Tree	7,980.00	
	b) Felling & logging of trees (61-90 cm girth) – 14 nos	5 mandays per Tree	26,600.00	
	c) Felling & logging of trees (91-120 cm girth) – 2 nos	9 mandays per Tree	6,840.00	
	d) Felling & logging of trees (>150 cm girth) – 2 nos	11 mandays per Tree	8,360.00	
	e) Cost of implement	LS	5,000.00	
2	Transportation of logs to rage Complex / Depot	LS	10,000.00	Vehicle hiring, stacking, etc.
3	Watch and ward	14 Mandays	5320.00	To prevent theft and other unwanted incidences
Total			70100.00	

(Rupees seventy thousand and one hundred)Only



Divisional Forest Officer

DETAILED COMPENSATORY AFFORESTATION SCHEME

1. Model of afforestation : Artificial Regeneration
2. Species proposed to be : *Bischofia javanica*
Michelia champaca
Terminalia myriocarpa
Cedrella toona
Ligustrum robustum
Toona ciliata
Messua ferrea
3. Implementing Agency : Environment, Forests & Climate Change
Department, Mizoram
4. Time schedules : Advanced work and creation plantation and
Maintenance upto 8th years

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)

Sl. No	Item of work	Manday required (in No.)	Labour component (in Rs)	Material Component (in Rs)	Cost/Ha (in Rs)
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.	-	-	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 materials, carriage to planting site, planting/ sowing, construction of camp shed, inspection path, signboard and other misc. works	25	9500	-	9500
	b) Weeding 3 times including vacancy filling and watch & ward	67	25460	-	25460
	c) Fire protection measures like fire line cutting engagement of fire watchers	3	1140	-	1140
	Sub-Total	95	36100	-	36100

Contd.....2/-

4.	Soil & Moisture Conservation measures including construction of check dams, gully plugging, contour trenching, water harvesting structures etc. whatever necessary within the project are (15% of plantation cost)	-	-	-	19892
5.	Fencing (15% of plantation cost)	-	-	-	6631
6.	Monitoring & Evaluation (2% of plantation cost)	-	-	-	2652
7.	Overheads (10% of plantation cost)	-	-	-	13261
	Grand Total	-	-	-	175046


Cost of CA for Widening of NH-54 to 2-lane (PACKAGE-3)-Deemed Forest area

(1x175046) = Rs 1,75,046.00

Say = Rs 1,75,040.00

(Rupees one lakh seventy five thousand forty) only

Prepared by



(PC LALCHHANDAMA)
Divisional Forest Officer
Lunglei Forest Division

224

**ESTIMATE FOR CARRYING OUT AVENUE PLANTATION ALONG NH-54 ROAD,
PACKAGE-III (DEEMED FOREST AREA)**

1. Project Name : Widening and upgradation of NH-54 to 2-Lane with paved shoulder and geometric improvements from Km 8.00 to Km 380.00 in the State of Mizoram (JICA Funded)(Package-3)
2. Species proposed to be Planted :
Delonix regia
Messua ferrea
Artocarpus heterophyllus
Mangifera indica
Azadirachta indica
Ligustrum robustum
Bischofia javanica
3. Implementing Agency : Environment, Forests & Climate Change Department, Mizoram
4. Time scheduled : Advanced work ,creation of plantation and maintenance upto 8 years

(Rs. 380 /- per manday)
(Spacing 3X3 m)

(1000 plants per 3 km which is taken as 1 hectare)

Sl. No.	Item of works	Mandays required (In No.)	Labour component (In Rs.)	Material component (In Rs)	Total cost per Hectare (In Rs)
1	2	3	4	5	6
1.	Advance Works including Nursery.				
	(a) Survey and demarcation nursery site and planting site	12	4560	-	4560
	(b) Preparation of nursery bed, shed erection with netlon	20	7600	-	7600
	(c) Cost of seed	-	-	2700	2700
	(d) Cost of materials like poly bags, netlon and fertilizers etc	-	-	8100	8100
	(e) Pre-treatment of seeds including cost of fungicides, fumigants, soil sterilants, etc	17	6460	-	6460
	(f) Sowing of seeds and weeding, watering	16	6080	-	6080
	(g) Fire protection	5	1900	-	1900
	Sub-Total	70	26600	10800	37400
2.	Creation of plantation				
	(a) Alignment, preparation of stakes, digging of pits, preparation of planting materials, carriage to planting sites, planting/sowing, construction of camp sheds, inspection parts, signboards and other misc. works	40	15200	-	15200
	(b) Weeding 4 times including vacancy filling (30+20+20+20)	90	34200	-	34200
	(c) Fire protection measures and ward and watch(5+5)	10	3800	-	3800
	(d) Manuring & Watering	10	3800	-	3800
	(e) Cost of manures/fertilizers			5400	5400
	(f) Fencing /tree guard (Local materials) including subsequent maintenance.	-	-	37800	37800
	Sub-Total	150	57000	43200	100200

3	Maintenance of plantation				
	(I) Maintenance after one year				
	(a) Weeding 3 times including vacancy filling, manuring & watering (20+20+20+10)	70	26600		26600
	(b) Fire protection measures & watch and ward(5+5)	10	3800		3800
	(c) Cost of manures/fertilizers			5400	5400
	(d) Signboard and labeling etc	-	-	5400	5400
	Sub-Total	80	30400	10800	41200
	(II) Maintenance after two years				
	(a) Weeding 3 times vacancy filling, manuring & Watering (15+15+10+10)	50	19000	-	19000
	(b) Fire protection measures & watch and ward(5+5)	10	3800	-	3800
	(c) Cost of fertilizers/manures			5400	5400
	Sub-Total	60	22800	5400	28200
	(III) Maintenance after three years				
	(a) Weeding 3 times vacancy filling, manuring & Watering (15+15+10+10)	50	19000	-	19000
	(b) Fire protection measures & watch and ward(5+5)	10	3800		3800
	(c) Cost of fertilizers/manures			5400	5400
	Sub-Total	60	22800	5400	28200
	(IV) Maintenance after four years				
	(d) Weeding 3 times vacancy filling, manuring & Watering (15+15+10+10)	50	19000	-	19000
	(e) Fire protection measures & watch and ward(5+5)	10	3800	-	3800
	(f) Cost of fertilizers/manures			5400	5400
	Sub-Total	60	22800	5400	28200
	(V) Maintenance after five years				
	(d) Weeding 3 times vacancy filling, manuring & Watering (15+15+10+10)	50	19000	-	19000
	(e) Fire protection measures & watch and ward(5+5)	10	3800		3800
	Sub-Total	60	22800		22800
	(VI) Maintenance after six years				
	(f) Weeding 3 times vacancy filling, manuring & Watering (15+15+10+10)	50	19000	-	19000
	(g) Fire protection measures & watch and ward(5+5)	10	3800		3800
	Sub-Total	60	22800		22800
	(VII) Maintenance after seven years				
	(h) Weeding 3 times vacancy filling & manuring & Watering (15+15+10)	40	15200	-	15200
	(i) Fire protection measures & watch and ward(5+5)	10	3800		3800
	Sub-Total	50	19000		19000
	(VIII) Maintenance after eight years				
	(j) Weeding 3 times (10+10+10)	30	11400	-	11400
	(k) Fire protection measures & watch and ward(5+5)	10	3800		3800
	Sub-Total	40	15200		15200
	TOTAL OF PLANTATION COST	690	262200	81000	343200
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)				51480
5	Fencing (5% of plantation cost)				17160
6	Monitoring & Evaluation (2% of plantation cost)				6864
7	Overheads (10% of plantation cost)				34320
	Grand Total				453024

Length of the proposed road for diversion of forest land for Widening of NH-54 (Package-III) -Deemed forest area = km (For 3 x 3m spacing, 1000 plants could be planted on 3 kms)

Component wise breakup			
S.no	Component	Forest Land(ha.)	Length of forest land (in kms)
1	Road Ch. Km 265+047 to km 265+260 RHS	0.1762	0.213
2	Road Ch. Km 270+640 to km 270+650 RHS	0.0097	0.01
3	Road Ch. Km 270+640 to km 270+650 RHS	0.347	0.55
TOTAL		0.5329	0.773

Cost of raising Avenue Plantation along 0.773 km = $\frac{0.773 \text{ km} \times 453024}{3} = \text{Rs. } 1,16,729.184/-$

Or Say Rs. 1,16,730/-

(Rupees one lakh sixteen thousand and seven hundred thirty only)

Prepared by-



(LALRAMMAWII SAILO)

Divisional Forest Officer

for Lunglei Forest Division