

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

No.B.23018/6/2008-FC/PCCF/ 117

Dated Aizawl the 21<sup>st</sup> Sept, 2022

To,

✓ The Manager,  
Power Grid Corporation of India Limited,  
B.P.O - Tuivamit, Aizawl  
E-mail : nerts\_melriat@powergrid.co.in

**Subj : Demand note for payment of CA, NPV, Dwarf/ Medicinal plantation, felling of project affected trees and boundary pillars amount under 132 KV Kolasib - Aizawl line by Power & Electricity Department, Mizoram.**

Ref: F. No. 3-MZ B 051/2021-SHI/1539-40 dated 22.08.2022

Sir,

I am directed to inform you for payment of amounts towards CA, NPV, Dwarf/ Medicinal plantation, felling of project affected trees and boundary pillars as follows in respect of 132 KV Kolasib - Aizawl line by Power & Electricity Department, Mizoram.


Sl. No	Items	Amount
1	Compensatory Afforestation	Rs. 17,921
2	Net Present Value	Rs. 64,650
3	Dwarf/ Medicinal plantation	Rs. 1,03,982.40
4	Felling of project affected trees at tower location	Rs. 9,269
5	Felling of project affected trees at corridors of Right of way	Rs. 21,779
6	Boundary pillars	Rs. 58,452
<b>Total</b>		<b>Rs. 2,76,053.40</b>

The payment in respect of Sl. No 1, 2 & 3 are to be deposited in CAMPA Account of the State concerned through PARIVESH.

And payment in respect of Sl No. 4, 5 & 6 are to be deposited in State CAMPA Account of State Forest Department (**Mizoram State CAMPA Account No. 40036259239, IFSC code - SBIN0017397, State Bank of India, Khatla Branch, Aizawl, Mizoram**).

Encl: As above

Yours faithfully,

  
(MZ SINGSON)

Deputy Conservator of Forest (FC)

Dated Aizawl the 21<sup>st</sup> Sept, 2022

Memo No.B.23018/6/2008-FC/PCCF/

Copy to

1. Engineer-in-Chief, Power & Electricity Department for information and necessary action.
2. Conservator of Forest (NC) for information and necessary action.
3. Divisional Forest Officer, Kolasib Forest Division for information and necessary action.

  
Assistant Conservator of Forest (FC)





भारतसरकार  
GOVERNMENT OF INDIA  
एकीकृतक्षेत्रीयकार्यालय  
INTEGRATED REGIONAL OFFICE  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE  
लॉन्सीबलुम्बतंगेन/LAW-U-SIB, LUMBATNGEN,  
शिलॉंग/SHILLONG-793021  
TEL. 0364-2537278; FAX. 0364-2536041  
E-mail: moefro.shillong@gov.in



F. No. 3-MZ B 051/2021-SHI/1529-47

22<sup>nd</sup> August, 2022

To,

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

Sub: Proposal for diversion of 0.045 ha of forest land for construction of 132 KV Kolasib to Aizawl line by Power & Electricity Department, Mizoram.

Sir,

This has got reference to the State Government of Mizoram letter No. G.20015/3/2019-FST dated 30.08.2021 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.G.20015/3/2019-FST dated 17.05.2022 and No.B.23018/6/2008-FC/PCCF/101 dated 29.07.2022, the **In-principle/Stage-I approval** of the Central Government is hereby granted for diversion 0.045 ha of forest land for construction of 132 KV Kolasib to Aizawl line by Power & Electricity Department, Mizoram 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 per the latest guidelines of MoEF & CC dated 06.01.2022. 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 dwarf plantation with the State Forest Department;
4. The boundary of the diverted forest land, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates;
5. 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 made will not be accepted as compliance of the Stage-I clearance;
6. The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;
7. The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the District Collector;

23/8  
ACF/FC  
23/8  
MA



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 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 0.09 ha degraded forest land in Zanlawn, Pualhranglui to Saikahluikam, Hortoki Beat, Kawnpui Forest Range of Kolasib Forest Division;
3. At the time of payment of the Net Present Value (NPV) at the then prevailing rate, the User Agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India;
4. All other clearances / NOCs under different rules / regulations / local laws and under Forest Dwellers (Recognition of Forest Rights) Act, 2006 as required vide MoEF, New Delhi guideline No. 11-9/98-FC(Pt) dated 05.02.2013 shall be complied with;
5. The User Agency at its cost shall provide bird deflectors, which are to be fixed on upper conductor of transmission line at suitable intervals to avoid bird hits;
6. The User Agency shall comply with the guidelines for laying transmission through forest areas issued by Ministry vide letter no. 7-25/2012-FC dated 05/05/2014 & 19/11/2014;
7. The User Agency shall obtain the Environmental Clearance under Environment (Protection) Act, 1986, if applicable;
8. The lay out of the proposal shall not be changed without the prior approval of the Central Government;
9. No labour camps shall be established on the forest land;
10. Sufficient firewood, preferably the alternative fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternative fuel;
11. The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer;
12. No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;
13. The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less;
14. The forest land shall not be used for any purpose other than that specified in the project proposal.
15. The User Agency and the State Government shall ensure compliance of all the Court orders, provisions, rules, regulations and guidelines for the time being in force as applicable to the project;
16. The User Agency will have to obtain the Forest (Conservation) Act, 1980 clearance for removal, if any, of stone, river sand, river boulders in forest land;



## DETAILED COMPENSATORY AFFORESTATION SCHEME

1. Model of afforestation : Artificial Regeneration
2. Species proposed to be Planted : *Mangifera indica*  
*Bischofia javanica*  
*Michelia champaca*  
*Terminalia myriocarpa*  
*Cedrella toona*  
*Toona ciliata*  
*Messua ferrea*
3. Implementing Agency : Environment, Forests & Climate Change Department, Mizoram
4. Time scheduled : Advanced work and creation of plantation and maintenance upto 10<sup>th</sup> 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	2	3	4	5	6
1	<b>Advance works including nursery</b>				
	(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
	<b>Sub Total</b>	<b>65</b>	<b>24,700</b>	<b>1890</b>	<b>26,590</b>
2	<b>Creation of plantation</b>				
	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
	<b>Sub Total</b>	<b>95</b>	<b>36,100</b>		<b>36,100</b>

3	<b>Maintenance of Plantation</b>			
	<b>(i) Maintenance after 1st year</b>			
	(a) Weeding 3 times + vacancy filling (10+9+5)	24	9,120	9,120
	(b) Fire protection measures	3	1,140	1,140
	<b>Sub Total</b>	<b>27</b>	<b>10,260</b>	<b>10,260</b>
	<b>(ii) Maintenance after 2 years</b>			
	(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			1,710
	<b>Sub Total</b>		<b>6,840</b>	<b>8,550</b>
	<b>(iii) Maintenance after 3 years</b>			
	(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			1,520
	<b>Sub Total</b>		<b>6,080</b>	<b>7,600</b>
	<b>(iv) Maintenance after 4 years</b>			
	(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
	<b>Sub Total</b>		<b>6,080</b>	<b>9,120</b>
	<b>(v) Maintenance after 5 years</b>			
	(a) Weeding/tending	12	4,560	4,560
	(b) Fire protection measures	2	760	760
	Add 50% for anticipated revision of wage rate			2,660
	<b>Sub Total</b>		<b>5,320</b>	<b>7,980</b>
	<b>(vi) Maintenance after 6 years</b>			
	(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
	<b>Sub Total</b>		<b>5,320</b>	<b>9,310</b>
	<b>(vii) Maintenance after 7 years</b>			
	(a) Weeding/tending	10	3,800	3,800
	(b) Fire protection measures	2	760	760
	Add 75% for anticipated revision of wage rate			3,420
	<b>Sub Total</b>		<b>4,560</b>	<b>7,980</b>
	<b>(viii) Maintenance after 8 years</b>			
	(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
	<b>Sub Total</b>		<b>4,560</b>	<b>9,120</b>



	(ix) Maintenance after 9 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
	<b>Sub Total</b>		<b>4,560</b>		<b>9,120</b>
	(x) Maintenance after 10 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
	<b>Sub Total</b>		<b>4,560</b>		<b>9,120</b>
	<b>Total of Plantation Cost</b>	<b>313</b>	<b>118940</b>	<b>1,890</b>	<b>1,50,850</b>
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)				22628
5	Fencing (5% of plantation cost)				7543
6	Monitoring & Evaluation (2% of plantation cost)				3017
7	Overheads (10% of plantation cost)				15085
	<b>Grand Total :</b>				<b>1,99,123</b>

Resultant Cost of CA over degraded forest land ( $0.045 \times 2 = 0.09$ )  
 $(0.09 \text{ ha} \times 1,99,123) = \text{Rs } 17921.07$  or say Rs. 17,921/-

(Rupees seventeen thousand nine hundred and twenty one only)

  
 (MARGARET LALRAMCHHANI)  
 Divisional Forest Officer  
 Kolasib Forest Division  
 Divisional Forest Officer  
 Kolasib Forest Division  
 Kolasib : Mizoram

**Calculation of Net Present Value for  
132 KV Transmission line Kolasib to Aizawl**

Area of forest land proposed to be diverted	0.045 Ha
Eco-class of the forest land to be diverted	Class -I
Vegetation density	0.4 — 0.5 Dense Forest
Rate per Eco-class of the forest area	Rs. 14,36,670 /-
Resultant cost of Net Present Value	Rs. 64,650 /-

**Total amount of NVP payable for 0.045 ha of forest land : Rs. 64,650 /-**  
(Rupees sixty four thousand six hundred fifty)

*Countersigned*

APCCF & V.O (FC)

Prepared by

*Margaret Lalramchhani*

(MARGARET LALRAMCHHANI)

Divisional Forest Officer  
Kolasib Forest Division  
Kolasib :Mizoram

**ANNEXURE-IV**

## Analysis per hectare rate for Plantation of Dwarf / Medicinal plants under 132 Kv/DC Transmission Line Kolasib to Aizawl

1. Species proposed to be Planted

*Bischofia javanica, Michelia champaca**Terminalia myriocarpa, Liqustrum robustum**Ligustrum robustum, Toona ciliata, Messua ferrea*

2. Time scheduled

Advanced work, creation of plantation and maintenance up to  
plantation and maintenance up to

Sl.No	Item of work	Mandays Required	Labour Component	Material Component	Total cost / Ha
		(in No.)	(in Rs.)	(in Rs.)	(in Rs.)
1	2	3	4	5	6
1	<b>Advance work including nursery</b>				
	Survey & demarcation, area clearance by cutting grasses & sharubs etc.	23	8740		8740
	Fire line cutting, removal of debris and maintenance of firelines	6	2280		2280
	<b>Sub - Total :</b>	<b>29</b>	<b>11020</b>		<b>11,020</b>
2	<b>Creation of Nursery &amp; Planting stock</b>				
	Clearance of site for nursery, preparation of nursery bed, filling of poly-bags, manuring shed erection	20	7600		7600
	Cost of seeds, poly-bags, implements etc.			1785	1785
	Treatment and sowing of seeds	5	1900		1900
	Weeding & watering	11	4180		4180
	<b>Sub - Total :</b>	<b>36</b>	<b>13680</b>	<b>1785</b>	<b>15,465</b>
3	<b>Creation of Plantation</b>				
	Alignment preparation of stakes, digging of pits, preparation of planting material, carriage to planting site, planting / sowing, construction of camp shed, inspection path, signboard and other misc. Works.	25	9500	750	10250
	Weeding 4 times including vacancy filling and watch & ward (20+18+18+11)	67	25460		25460
	Fire protection measures like fire line cutting, engagement of fire watchers	12	4560		4560
	<b>Sub - Total :</b>	<b>104</b>	<b>39520</b>	<b>750</b>	<b>40,270</b>
4	<b>Maintenance of Plantation</b>				



<b>(I) Maintenance during 1st year</b>				
(a) Weeding 4 times including vacancy filling (12+10+9+7)	38	14440		14440
(b) Fire protection measures	10	3800		3800
<b>Sub - Total :</b>	<b>48</b>	<b>18240</b>		<b>18,240</b>
<b>II) Maintenance during 2nd year</b>				
(a) Weeding 3 times (12+10+9)	31	11780		11780
(b) Fire protection measures	10	3800		3800
(c) Add 25% if 3(ii) column 5 total labour component for anticipated revision of wage rate				3895
<b>Sub - Total :</b>	<b>41</b>	<b>15580</b>		<b>19,475</b>
<b>(III) Maintenance during 3rd year</b>				
(a) Weeding 3 times (12+10+8)	30	11400		11400
(b) Fire protection measures	10	3800		3800
(c) Add 25% if 3(iii) column 5 total labour component for anticipated revision of wage rate				3800
<b>Sub - Total :</b>	<b>40</b>	<b>15200</b>		<b>19,000</b>
<b>(IV) Maintenance during 4th year</b>				
(a) Weeding 2 times (12+10)	22	8360		8360
(b) Fire protection measures	10	3800		3800
(c) Add 50% if 3(iv) column 5 total labour component for anticipated revision of wage rate				6080
<b>Sub - Total :</b>	<b>32</b>	<b>12160</b>		<b>18,240</b>
<b>(V) Maintenance during 5th year</b>				
(a) Weeding 2 times (10+8)	18	6840		6840
(b) Fire protection measures	10	3800		3800
(c) Add 50% if 3(v) column 5 total labour component for anticipated revision of wage rate				5320
<b>Sub - Total :</b>	<b>28</b>	<b>10640</b>		<b>15,960</b>
<b>(VI) Maintenance during 6th year</b>				
(a) weeding 2 times (10+3)	13	4940		4940
(b) Fire protection measures	10	3800		3800
(c) Add 75% if 3(vi) column 5 total labour component for anticipated revision of wage rate				6555
<b>Sub - Total :</b>	<b>23</b>	<b>8740</b>		<b>15,295</b>
<b>(VII) Maintenance during 7th year</b>				



	(a) Weeding 2 times (10+3)	13	4940		4940
	(b) Fire protection measures	10	3800		3800
	(c) Add 75% if 3(vii) column 5 total labour component for anticipated revision of wage rate				6555
	<b>Sub - Total :</b>	<b>23</b>	<b>8740</b>		<b>15,295</b>
	<b>(VIII) Maintenance during 8th year</b>				
	(a) Weeding 2 times (10+3)	13	4940		4940
	(b) Fire protection measures	10	3800		3800
	(c) Add 100% if 3(viii) column 5 total labour component for anticipated revision of wage rate				8740
	<b>Sub - Total :</b>	<b>23</b>	<b>8740</b>		<b>17,480</b>
	<b>(IX) Maintenance during 9th year</b>				
	(a) Weeding 2 times (10+3)	13	4940		4940
	(b) Fire protection measures	10	3800		3800
	(c) Add 100% if 3(ix) column 5 total labour component for anticipated revision of wage rate				8740
	<b>Sub - Total :</b>	<b>23</b>	<b>8740</b>		<b>17,480</b>
4	<b>(X) Maintenance during 10th year</b>				
	(a) Weeding 2 times (10+3)	13	4940		4940
	(b) Fire protection measures	10	3800		3800
	(c) Add 100% if 3(ix) column 5 total labour component for anticipated revision of wage rate				8740
	<b>Sub - Total :</b>	<b>23</b>	<b>8740</b>		<b>17,480</b>
	<b>TOTAL OF PLANTATION COST</b>	<b>473</b>	<b>179740</b>	<b>2535</b>	<b>2,40,700</b>
5	Soil & Moisture Conservation (15% of plantation cost)				36105
6	Monitoring & Evaluation, Micro-planning Fencing etc. (10% of the plantation cost)				24,070
7	Overheads (10% of the plantation cost)				24,070
	<b>Total cost of Plantation per Ha</b>				<b>3,24,945</b>

TOTAL COST OF PLANTATION FOR 0.32 Ha

Rs. 1,03,982.4

(One lakh three thousand nine hundred eighty two and four paise)

Prepared by



(MARGARET LALRAMCHHANI)

Divisional Forest Officer

Kolasib Forest Division

Kolasib : Mizoram



**DETAIL ESTIMATE FOR FELLING OF AFFECTED TREES FOR CONSTRUCTION OF  
132KV LINE FROM KOLASIB TO AIZAWL  
(WITHIN KAWNPUI FOREST RANGE)**

Estimate for cost of felling, sectioning, transportation to roadside depot and stacking for:

**A. Trees to be felled at Tower site:**

GIRTH CLASS	NO. OF TREES	VOLUME(in cu.m)	RATE OF EXTRACTION PER CU.M	AMMOUNT
60-70cm	3	0.84m <sup>3</sup>	2100.00	1764.00
71-80cm	4	1.588m <sup>3</sup>	2100.00	3334.00
81-90m	3	1.986m <sup>3</sup>	2100.00	4170.00
<b>TOTAL</b>	<b>10</b>	<b>4.414m<sup>3</sup></b>		<b>9269.00</b>

**B. Trees to be felled along line corridor: -** In this case only creation % of enumerated trees may be affected on stringing of transmission line while trees in the lower reaches will not be affected. As such 40% of the enumerated trees is estimated to be affected:

GIRTH CLASS	NO. OF TREES	VOLUME (in cu.m)
60-70cm	60	12.675m <sup>3</sup>
71-80cm	30	10.548m <sup>3</sup>
81-90m	5	2.709m <sup>3</sup>
<b>TOTAL</b>	<b>95</b>	<b>25.932m<sup>3</sup></b>

**Estimate after deduction of 60% of trees:**

GIRTH CLASS	NO. OF TREES	VOLUME(in cu.m)	RATE OF EXTRACTION PER CU.M	AMMOUNT
60-70cm	24	5.07m <sup>3</sup>	2100.00	10.647.00
71-80cm	12	4.218m <sup>3</sup>	2100.00	8857.00
81-90m	2	1.083m <sup>3</sup>	2100.00	2274.00
<b>TOTAL</b>	<b>38</b>	<b>10.371m<sup>3</sup></b>		<b>21779.00</b>

**TOTAL OF A+B=Rs.31,048.00 (Rupees thirty one thousand forty eight) only.**

Submitted by

  
**(MARGARET LALRAMCHHANI)**  
 Divisional Forest Officer  
 Kolasib Forest Division  
 Kolasib : Mizoram



**DETAIL ESTIMATE FOR ERECTION OF RCC PILLARS AT 200 METRES INTERVAL OF  
RESERVED FOREST ALONG BUFFER ZONE UNDER KAWNPUI FOREST RANGE FOR  
DIVERTED LAND TO 132KV LINE**

Sl. No	SOR No.	Description of items	No	L	B	H	Qty.	Unit	Rate	Amount
1	2.06	Earthwork in excavation over areas (exceeding 30cm in depth 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly deressed. (a) ordinary and hard soil	1	1.5	1.5	0.3	0.68	M2	411.5	277.76
2	2.07	Earthwork in excavation in foundation trenches or drains etc. (not exceeding 1.5m in width or 10sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m including getting out excavated soil and disposal of surplus excavated soil as directed within a lead of 50m. (a) Ordinary soil	1	1.0	1.0	0.5	0.5	M2	419.9	209.95
3	5.01	Providing and laying in position reinforced cement concrete excluding cost of cantering and shuttering, finishing and reinforcement in (b) 1:2:3 base portion post	1	1.0	1.0	0.25	0.25	M2	8633	3992076



4	5.18	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete (b) TMT bar							
		Base portion @12mm	1 5	0.9	0.9		12.02	kg	
		Post @ 16mm	4	2.0	1.6		12.64	kg	
		Ties@6mm	1 1	1.3	0.2		3.19	kg	
						<b>Total</b>	27.85	kg	
		Add 5% wastage				<b>Grand Total</b>	29.24	kg	101.6 2970.97
5	5.1	Cantering and shuttering including strutting propping etc and removal of form for all height: Base	1	1.0	1.0		1.00	m2	
			4	1.0	0.25		1.00	m2	
			4	1.0	0.25		0.7	m2	
						<b>Total</b>	2.70	m2	359.1 969.57
		Post	4	0.3	1.0		1.20	m2	618.4 742.08
6	20.07	12mm cement plaster 1:3 (1 cement : 3fine sand ) Item from 5/5.10	1				1.00	m2	
			1	0.3	0.3		0.9	m2	
			4	0.70	0.30		0.70	m2	
						<b>Total</b>	1.99	m2	297.3 591.63
7	20.74	Wall painting with water and weather proof paint (Latex Emulsion Base) on cement works of approved brand and manufacture (ISI/ISO certified) of required shade on new work (two or more coats) to give an even shade. Item from 7/20.74	1				1.99	m2	152.9 304.271

G. Total 10.059.00

Add 7.22% cost indices for Kolasib District 725.26

Net Total 10,785.26

Deduct 10% contractor profit 1078.53

Total 9,706.73

Say 9,700.00

Note: 1. No. of pillars to be erected : 6nos.  
 2. Construction cost per pillars : 9700.00  
 3. Total cost for pillar construction : 9700x6=58200.00

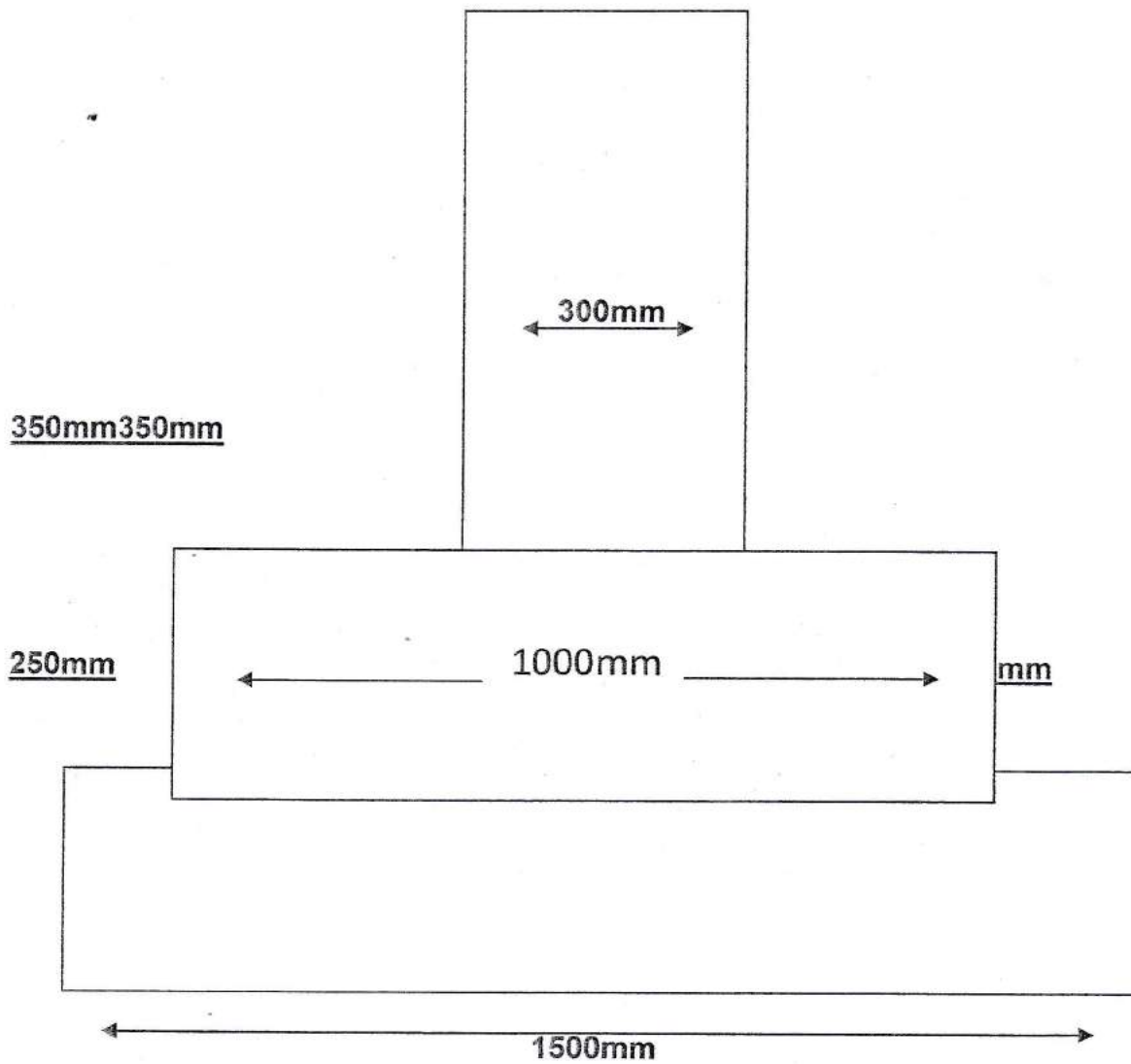
Submitted by:-

  
 (MARGARET LALRAMCHHANI)  
 Divisional Forest Officer  
 Kolasib Forest Division  
 Kolasib : Mizoram



DRAWING OF RCC PILLAR FOR DIVERTED LAND FOR 132KV LINE

KOLASIB – AIZAWL



Submitted by:-

*Margaret*  
 (MARGARET LALRAMCHHANI)  
 Divisional Forest Officer  
 Kolasib Forest Division  
 Kolasib : Mizoram



Estimate for Survey and Demarcation of Diverted 0.045 area of land for construction of 132 KV line  
Kolasib - Aizawl

SI No	Description of items	Total Length	Area of land diverted	Lumpsum rate	Amount
1	Jungle clearance for survey path on both side of the 3 metres RoW wide and erection of boundary pillars by manual labour, including chainages and measurements all along the alignment complete over 800 metres calculated at a lumpsum rate if 5600 per hectare	800 metres	0.045	5,600	252

SI No	Item of Works	Unit	Rate in Rs	Amount
1	Survey and Demarcation of the area	0.045 Ha	5600	252
2	Erection of boundary Pillars	6 Nos	9700	58,200
<b>TOTAL</b>				<b>58,452</b>

  
(MARGARET LALRAMCHHANI)  
Divisional Forest Officer  
Kolasib Forest Division  
Kolasib : Mizoram