

Government of Manipur
Office of the Addl. Principal Chief Conservator of Forests
(Climate Change & FCA)
Sanjenthong, Imphal

No.7/310/2022/Forests: 455

Imphal, the 18th July, 2024

To

The General Manager (P) PMU- Ukhrul, NHIDCL

Sub:- Proposal for diversion of 98.00 ha of forest land for widening and improvement of Yaingangpokpi- Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.000 km from Laikot to Finch corner 30.970 km in the state of Manipur by NHIDCL.

Ref: IPA Letter 3-MN C 033/2022- SHI/3203-04 dt. 01.03.2023 (copy enclosed).

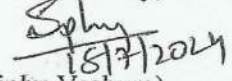
Sir,

With reference to the subject and letter reference above, you are requested to comply the conditions for cost of raising Avenue plantation on the road side, cost of felling/extraction of trees and boundary demarcation as given in the table below.

Sl. No.	Particulars	Amount	Remarks	Annexure
1.	Cost of raising Avenue plantation on the road side	Rs. 2,58,04,561/-	To be deposited to CAMPA account of the State concerned through e-portal (http://parivesh.nic.in).	I (A) I (B) I (C)
2.	Ukhrul Forest Divn.		To be deposited to DFO/Ukhrul Account Name/Operator: Divisional Forest Officer/Ukhrul	II & III
	Cost of felling of trees (timber & firewood)	Rs. 9,16,000/-	Bank A/c No. 0257050010310	
	Cost of boundary demarcation	Rs. 56,41,866/-	IFSC Code-PUNB0025720 Punjab National Bank, Ukhrul, Manipur	
3.	Thoubal Forest Divn.		To be deposited to DFO/Thoubal Account Name/Operator: Divisional Forest Officer/Thoubal Division	IV & V
	Cost of felling of trees	Rs. 87,138/-	A/c No. 30456435543	
	Cost of boundary demarcation	Rs. 3,60,000/-	IFSC Code- SBIN0004461 State Bank of India, Thoubal Branch, Manipur	
4.	Central Forest Divn.		To be deposited to DFO/Central Forest Division Account Name/Operator:	VI & VII
	Cost of felling of trees	Rs. 42,60,000/-	DFO/Central	
	Cost of boundary demarcation	Rs. 21,27,430/-	A/c No. 10383411975 State Bank of India Paona Bazar, Imphal IFSC Code: SBIN0007440	

Encl: Letter under reference and Annexures.

Yours faithfully,


(Soreiphy Vashum)
APCCF & Nodal Officer (FCA)
Government of Manipur

Copy to:

1. The Divisional Forest Officer/Central/Thoubal/Ukhrul/ Forest Division, Govt. of Manipur.
2. The DGM(LA), NHIDCL, RO-Imphal.

O/c

Pr. C.C.F. CC, FCA & S.F.D.A
Receipt No. 437
Date 25/06/2024

GOVERNMENT OF MANIPUR
OFFICE OF THE DIVISIONAL FOREST OFFICER, UKHRUL FOREST DIVISION
UKHRUL, MANIPUR

No.7/FCA/6/2018/YANG-UK-JESS(Pt-I)/1302.

Ukhrul, the 12th June, 2024

To,

✓ The Addl. Principal Chief Conservator of Forest &
Nodal Officer/FCA, Govt of Manipur

Subject: Proposal for Diversion of 98.00 Ha of Forest Land for Widening and Improvement for Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.000 Km from Laikot to Finch Corner 30.970 Km in the State of Manipur by NHIDCL

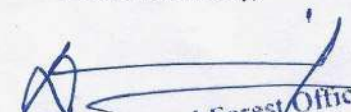
Madam,

Inviting a reference to the letter no.7/310/2022/Forest/411 dated 20th May, 2024, I am to submit herewith the estimate for raising Avenue Plantation for Diversion of 98.00 Ha of Forest Land for Widening and Improvement for Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.000 Km from Laikot to Finch Corner 30.970 Km in the State of Manipur by NHIDCL

This is submitted for your kind information and necessary action.

Enclosed: As above

Yours Faithfully,


(Darade Rajesh Dashrath)
Divisional Forest Officer: Ukhrul Forest Division
Government of Manipur

Copy to:

- (i) The conservator of Forest Northern Circle, Govt of Manipur

/

(Darade Rajesh Dashrath)
Divisional Forest Officer: Ukhrul Forest Division
Government of Manipur

g/hy
25/6
RFO/FCA

Cost Norm for a single row avenue plantation for the Proposed diversion of 98.00 Ha of Forest Land for widening and improvement of Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.00 km from Laikot to Finch corner 30.970 km in the state of Manipur by NHIDCL

Length of Plantation : 26.67km
 Spacing : 4m from C/C
 Number of plants 7744

Sl. No.	Particular of works	Amount
1	Site clearance and Creation	₹ 1,67,90,000.00
2	Maintenace I in 2nd year	₹ 8,73,000.00
3	Maintenance II in 3rd year	₹ 1,33,000.00
4	Maintenance III in 4th year	₹ 1,03,000.00
5	Maintenance IV in 5th year	₹ 1,03,000.00
	Total	₹ 1,80,02,000.00

Rupees (One crore eighty lakh twenty two thousand)only


 Divisional Forest Officer
 Ukhrul Forest Division
 Government of Manipur

Model Detailed Estimate for Creation of Single Row Avenue Plantation

Name of work: Single Row Avenue Plantation
Design: Single Row Plantation
Spacing: 4m



Length of Plantation (in km.):
No. of Plants:

26.67
6669

Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	Site clearance, removal of the rank vegetation, brushwood, removal of stump whereby by retaining advance growth @ 12 Manday/ha (10 m wide)	320	Manday	225	72,000.00	MFSR 91
2	Collection of 4061 stakes for size 60-75cm long, 2.5 cm dia with one end pointed @ 1 Manday for 320 stakes	21	Manday	225	4,725.00	MFSR 91
3	Laying out of 4061 planting pits and staking of the pits at prescribed spacing for pits up to 1000 nos. per ha @ 1 Manday for 220 pits	30	Manday	225	6,750.00	MFSR 91
4	Procurement of indigenous tree saplings (height not less than 3 feet) including transportation cost	6669	Nos.	90	6,00,210.00	Market Rate
5	Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/ sludge manure, planting saplings, back filling the trench, watering, fixing the tree guard and maintaining the plants for one year.	6669	Nos.	2127	1,41,84,963.00	MSR 22 Vol 2 Page 49
6	Procurement of Farm yard manure for mixing with soil in the proportion of 1:1 (1 Farm Yard Manure: 1 soil) (1/2 of 0.216 cum of one pit x 4061 pits)	720.3	cum	882.2	6,35,449.00	MSR 22 Vol. 2 Page (ix) Sl. No. M-167
7	Making tree guard 60 cm dia and 2m high above ground level formed with 4 nos. of 25x6 mm and 8 nos 25x6 mm flat iron rings in the halves bolted together with 8 mm diameter and 30 mm longs bolts complete in all respects including fixing in the ground with cement concrete complete.	251	Nos.	3623	9,09,373.00	MSR 22 Vol 2 Page 50 Sl. No. 18
	Sub - Total				1,64,13,470.00	
	General Contingency not more than 3%				3,76,530.00	
	Grand Total				1,67,90,000.00	

Rupees (One crore sixty seven lakh ninety thousand) only

[Signature]
Divisional Forest Officer
Ukhrul Forest Division
Government of Manipur

Model Detailed Estimate for Maintenance I in 2nd Year of Plantation

Name of work: Single Row Avenue Plantation
Design: Single Row Plantation
Spacing: 4m

Length of Plantation (in km.): 26.67
No. of Plants: 6669



Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 125 plants per Manday	53	Manday	225	11,925.00	MFSR 91
2	Procurement of tree saplings (20%) casualty replacement	1334	Nos.	90	1,20,060.00	MFSR 91
3	Procurement of Farm yard manure for mixing with soil in the proportion of 1:1 (1 Farm Yard Manure: 1 soil) (1/2 of 0.216 cum of one pit x 251 pits)	720.3	cum	882.2	6,35,449.00	MFSR 91
4	Second weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 250 plants per Manday	27	Manday	225	6,075.00	MFSR 91
5	Deployment of 1(one) watcher for 365 days including protection from fire hazard, watering etc.	365	Manday	225	82,125.00	
	Sub - Total				8,55,634.00	
	General Contingency not more than 3%				17,366.00	
	Grand Total				8,73,000.00	

Rupees (eight lakh seventy three thousand) only


Divisional Forest Officer
Ukhrul Forest Division
Government of Manipur

Model Detailed Estimate for Maintenance II in 3rd Year of Plantation

Name of work: Single Row Avenue Plantation
Design: Single Row Plantation
Spacing: 4m

Length of Plantation (in km.): 26.67
No. of Plants: 6669



Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 125 plants per Manday	53	Manday	225	11,925.00	MFSR 91
2	Procurement of tree saplings (5%) casualty replacement	333	Nos.	90	29,970.00	MFSR 91
3	Beating up of casualties upto 5% @ 65 sapling/ Manday	1	Manday	225	225.00	MFSR 91
4	Second weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 250 plants per Manday	27	Manday	225	6,075.00	MFSR 91
5	Deployment of 1(one) watcher for 365 days including protection from fire hazard, watering etc.	365	Manday	225	82,125.00	
	Sub - Total				1,30,320.00	
	General Contingency not more than 3%				2,680.00	
	Grand Total				1,33,000.00	

Rupees (One lakh Thirty three thousand) only


Divisional Forest Officer
Ukhrul Forest Division
Government of Manipur

Model Detailed Estimate for Maintenance III in 4th Year of Plantation



Name of work: Single Row Avenue Plantation
Design: Single Row Plantation
Spacing: 4m

Length of Plantation (in km.):
No. of Plants:

26.67
6669

Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 125 plants per Manday	53	Manday	225	11,925.00	MFSR 91
2	Second weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 250 plants per Manday	27	Manday	225	6,075.00	MFSR 91
5	Deployment of 1(one) watcher for 365 days including protection from fire hazard, watering etc.	365	Manday	225	82,125.00	
	Sub - Total				1,00,125.00	
	General Contingency not more than 3%				2,875.00	
	Grand Total				1,03,000.00	

Rupees (One lakh three thousand) only


Divisional Forest Officer
Ukhrul Forest Division
Government of Manipur

Model Detailed Estimate for Maintenance IV in 5th Year of Plantation

me of work: Single Row Avenue Plantation
Design: Single Row Plantation
Spacing: 4m



Length of Plantation (in km.): 26.67
No. of Plants: 6669

Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 125 plants per Manday	53	Manday	225	11,925.00	MFSR 91
2	Second weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 250 plants per Manday	27	Manday	225	6,075.00	MFSR 91
5	Deployment of 1(one) watcher for 365 days including protection from fire hazard, watering etc.	365	Manday	225	82,125.00	MFSR 91
	Sub - Total				1,00,125.00	
	General Contingency not more than 3%				2,875.00	
	Grand Total				1,03,000.00	

Rupees (One lakh three thousand) only


Divisional Forest Officer
Ukhrul Forest Division
Government of Manipur

DETAILED ESTIMATE FOR DEPARTMENTAL EXTRACTION OF 67.45 CUM. OF TIMBER FROM the proposed diversion of 98.00 ha. of Forest Land for widening and improvement of Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.000km from Laikot to Finch Corner 30.970 km in the State of Manipur on EPC Mode by NHIDCL

Division: Ukhrul Forest Division, Ukhrul
Jahadev to Finch Corner section 77.13 Ha)

No of trees to be felled 89
Average Girth 1.50m
Average Height. 11 m

S.No.	Particulars	Unit	Qty.	Rate	Amount	Remark
1	Felling of marked trees, delimbing & conversion into logs at the stump site @ 20 mdays/Cu.m	Mday	1349	225	303525.00	MSFR'91
2	Transportation of logs from stump site to temporary depot, at motorable point or Range/Beat including loading and unloading @30 mday/Cu.m	Mday	2024	225	455400.00	MSFR'91
3	Hiring of truck from stump site to temporary depot @ 7 Cum/truck	Nos	10	3000	30000.00	Local rate
				Sub-total	788925.00	
5	General Contingency:			L.S.	1075.00	
				Total:	790000.00	

(Rupees Seven lakh ninety thousand) only

Prepared by:

Approved by:

tailed estimate for Departmental extraction of firewood from the the proposed diversion of 98.00 ha. of Forest
nd for idening and improvement of Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with
aved shoulder of 0.000km from Laikot to Finch Corner 30.970 km in the State of Manipur on EPC Mode by
NHIDCL

No of trees 33757
Average Height 6 m
Average Girth 0.55 m

Total volume of Firewood to be extracted = 72.39 Cu.m
Volume of a Stake = 4.5 Cu.m
Total No. of Stake to be extracted = 16
Loss during conversion = 5%
Actual volume of Firewood to be extracted = 68.7705
No. of Stake = 15

vision: Ukhrul Forest Division, Ukhrul
kot to Hungpung section (135.065 Ha) (98.00) ha

No.	Particulars	Unit	Qty.	Rate	Amount	Remark
1	Felling of trees of firewood species and conversion of the felled trees into billets of size 12 cm dia i/c splitting and stacking to the size of 3m x 1.5m x1m at the stump site @ 26 mdays/stake	Mday	390	225	87750.00	MSFR'91
2	Transportation of billets from stump site to temporary depot, at motorable point or Range/Beat including loading and unloading @11 mday/stake	Mday	165	225	37125.00	MSFR'91
				Sub-total	124875.00	
	General Contingency:			L.S.	1125.00	
				Total:	126000.00	

(Rupees one lakh twenty six thousand) only

Prepared by:

Range Forest Officer
Ukhrul Forest Division
Govt of Manipur

Approved by:

ABSTRACT OF COST FOR CONSTRUCTION OF 1 (ONE) RCC PILLAR

Name of work: Construction and erection of RCC Pillar for demarcation of 98.00 ha. of Forest Land for idening and improvement of Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.000km from Laikot to Finch Corner 30.970 km in the State of Manipur on EPC Mode by NHIDCL.

Package: Mahadev to Finch Corner Section

Total length of road to be improved (Mahadev to Finch Corner section under Ukhrul Forest Division: 26.2 km

No. of RCC Pillar to be constructed at an average distance of 100 m. from pillar to pillar: 262 pillars

Sl.	Item of work	Unit	Qty.	Rate	Amount	Remarks
1	E/W in excavation in foundation trenches or drains i/c dressing of sides and ramming of bottoms lift upto 1.5m i/c getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m in hard/ Dense soil	cum.	1.00	140.10	140.10	MSR-2017/P-66/1.10
2	P/L cement concrete in foundation and plinth i/c the cost of centering and shuttering in 1:5:10	cum.	0.20	4984.80	996.96	MSR-2017/P-74/2.1.9
3	Providing form work i/c centering and shuttering in foundation, footings, bases of columns etc. & mass concrete	sqm.	6.44	625.70	4029.51	MSR-2017/P-86/4.4.1
4	Square rubble masonry coursed (1st sort) with hard stone of approved quality in foundation & plinth in cement mortar 1:6 (1 cement : 6 course sand)	cum.	0.75	5006.20	3754.65	MSR-2017/P-93/6.18.2
5	RCC works in columns, pillars, piers,...excluding the cost of centering, shuttering, finishing & reinforcement in 1:2:4	cum.	0.55	8168.10	4492.46	MSR-2017/P-78/3.5.2
6	Steel work in single sections, i/c cutting, hoisting, fixing in position & applying a priming coat of red lead paint in RS Joist	Qtl.	0.24	7373.90	1769.74	MSR-2017/P-115/8.1.1
7	12 mm cement plaster in coarse sand in 1:3 (1 cement : 3 fine sand)	sqm.	2.690	221.20	595.03	MSR-2017/P-144/11.1
8	Finishing walls with water-proofing cement paint of approved quality on new work (3 or more coats) to give even shade.	sqm.	2.69	49.90	134.23	MSR-2017/P-147/11.62
9	Lettering with black japan paint	Letter	75	19.80	1485.00	MSR-2017/P-151/11.113

Sub-total: 17397.67

Annual cost index @3% 521.93

Total 1 17919.60

Contractor's Profit @7.5% 1343.97

Total after deducting C.P 16575.63

GST@12% 1989.08

Total 2 18564.70

Labour cess @1% 185.65

Total 3 18750.35

Agency Charge @ 11.5% 2156.29

Total 4 20906.64

Contingency @3% 627.20

Grand Total 21533.84

Hence, cost of construction for 262 nos. of RCC Pillars: Rs. 5641866

(Rupees fifty six lakh forty one thousand eight hundred and sixty six) only

Prepared by
Range Forest Officer (H/O)
Ukhrul Forest Div.

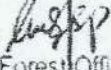
Approved by

DETAILS OF MEASUREMENT

Name of work: Construction and erection of RCC Pillar for demarcation of 98.00 ha. of Forest Land for widening and improvement of Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.000km from Laikot to Finch Corner 30.970 km in the State of Manipur on EPC Mode by NHIDCL

Mahadev to Finch Corner Section under Ukhrul Forest Division

Sl. No.	Items of work	Measurement					
		No.	L (m)	B (m)	H (m)	Unit	Qty.
1	Earth work in surface excavation	1	1.00	1.00	1.00	cum.	1.00
2	P/L cement concrete in foundation and plinth i/c the cost of centering and shuttering in 1:5:10 ratio.	1	1.00	1.00	0.20	cum.	0.20
3	Providing form work i/c centering and shuttering in foundation, footings, bases of columns etc. & mass concrete Below Ground Level Above Ground Level	4	1.00	1.00		sqm.	4.00
		4	1.22	0.50		sqm.	2.44
						sqm.	6.44
4	Square rubble masonry coursed (1st sort) with hard stone of approved quality in foundation & plinth in cement mortar 1:6 (1 cement : 6 course sand) Less c.c. masonry		1.00	1.00	1.00	cum.	1.00
			0.50	0.50	1.00	cum.	0.25
5	P/L RCC in columns, pillars, piers, ... i/c cost of centering, shuttering, finishing & reinforcement in 1:2:4 Below Ground Level Above Ground Level		0.50	0.50	1.00	cum.	0.25
			0.50	0.50	1.22	cum.	0.305
6	Steel work in single section i/c cutting, hoisting in RS Joist 12 mm dia. MS bar 6 mm dia. MS bar @ 15 cm.	8	2.50			m	20
			@ 0.88			kg	17.60
		15	2.00			kg	30.000
7	12 mm cement plaster in coarse sand in 1:3 ratio Four sides Top					kg	6.600
						kg	24.200
8	Finishing walls with water-proofing cement paint of approved quality on new work (3 or more coats) to give even shade. Four sides Top	4		0.50	1.22	sqm.	2.440
		1	0.50	0.50		sqm.	0.250
9	Lettering with black japan paint					sqm.	2.690
						sqm.	2.44
		Letter	75			No.	75.00

Prepared by 
Range Forest Officer (HO)
Ukhrul Forest Division
Govt. of Manipur


Approved by

Government of Manipur

Office of the Divisional Forest Officer, Thoubal Forest Division

Manipur:Thoubal

Thoubal, the 24th June, 2024

No.4/60/2020/DFO/TBL

To

✓ The Addl Principal Chief Conservator of Forest Cum Nodal Officer, FCA
Government of Manipur.


Sub:- Submission of detail Estimate.

Sir,

In inviting reference to the letter no.7/310/2022/Forest/412 dated 20/05/2024, I have the honour to submit the detail estimates for Felling of trees, Avenue Plantation on Road Side and Boundary Demarcation and Erection of Boundary Pillars for further necessary action.

Enclosed: as stated above.

Yours faithfully,


(Dr. L. Jeecelee) 24/06/24

Divisional Forest Officer, Thoubal Forest Division
Government of Manipur

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24/6

KFO/FCA

Meenakshi
25/06/2024

DA

Estimate for Departmental Extraction/Felling of Trees of proposal for diversion of 98.00 ha of forest land for widening and improvement of Yaingangpokpi-Nagaland Road Section of NH-102 into two lanning with paved shoulder of 0.000 km from Laikot to Finch Corner 30.970 km in the state of Manipur by NHIDCL

Division: Thoubal Forest Division

No. of trees affected :

300

Range: Thoubal Range

Volume of Timber affected (cum):

0

Volume of Firewood affected(cum):

36

SL	Items of Work	Unit	Qty	Rate	Amount	Remarks
A	FIREWOOD:					
1	Felling of trees of firewood and conversion of felled trees into billets of size 12 cm dia (minimum) including splitting and stacking to the size 3m × 1.5m × 1m (4.5 cum) at stump site @ 26 man-days per stake for 36 cum of firewood (36/4.5 = 8 stakes).	Man-day	208	₹ 225	₹ 46,800	MFSR '91
2	Transportation of billets from stump site and dumping at the temporary depot (motorable point) and stacking including loading and unloading @ 11 man-days per stake for 4 stakes.	Man-day	88	₹ 225	₹ 19,800	MFSR '91
3	Loading of firewoods/billets to the departmental / private truck by majdoors @5 man-days per stake	Man-day	40	₹ 225	₹ 9,000	Field Observation
4	Unloading of firewoods/billets and staking to the size 3m × 1.5m × 1m @5 man-days per stake	Man-day	40	₹ 225	₹ 9,000	Field Observation
Total (Firewood)					₹ 84,600	A
Unit Cost (₹/Stake)					₹ 10,575	
Unit Cost (₹/Cum)					₹ 2,350	
Contingency (3%)					₹ 2,538	B
Total Cost of Felling					₹ 87,138	A+B

Rupees eighty-seven thousand one hundred thirty-eight only

Prepared by:



Range Forest Officer
Thoubal Forest Range
Govt. of Manipur

Approved by:



Divisional Forest Officer
Thoubal Forest Division
Government of Manipur

Detailed Estimate for Creation of Single Row Avenue Plantation of proposal for diversion of 98.00 ha of forest land for widening and improvement of Yaingangpokpi-Nagaland Road Section of NH-102 into two lanning with paved shoulder of 0.000 km from Laikot to Finch Corner 30.970 km in the state of Manipur by NHIDCL

Division: Thoubal Forest Division

Range: Thoubal Range

Name of work: Single Row Avenue Plantation

Length of Plantation (in km.):

3

Design: Single Row Plantation

No. of Plants:

751

Spacing: 4m

S/L	Item of Work	Qty	Unit	Rate	Amount	Remarks
1	Site clearance, removal of the rank vegetation, brushwood, removal of stump whereby by retaining advance growth @ 12 Manday/ha (10 m wide)	36	Manday	₹ 225	₹ 8,100	MFSR 91
2	Collection of 4061 stakes for size 60-75cm long, 2.5 cm dia with one end pointed @ 1 Manday for 320 stakes	2	Manday	₹ 225	₹ 450	MFSR 91
3	Laying out of 4061 planting pits and staking of the pits at prescribed spacing for pits up to 1000 nos. per ha @ 1 Manday for 220 pits	3	Manday	₹ 225	₹ 675	MFSR 91
4	Procurement of indigenous tree saplings (height not less than 3 feet) including transportation cost	751	Nos.	₹ 90	₹ 67,590	Market Rate
5	Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/ sludge manure, planting saplings, back filling the trench, watering, fixing the tree guard and maintaining the plants for one year.	751	Nos.	₹ 2,127	₹ 15,97,377	MSR 22 Vol 2 Page 49
6	Procurement of Farm yard manure for mixing with soil in the proportion of 1:1 (1 Farm Yard Manure: 1 soil) (1/2 of 0.216 cum of one pit x 4061 pits)	81.1	cum	₹ 882	₹ 71,546	MSR 22 Vol. 2 Page (ix) Sl. No. M-167
7	Making tree guard 60 cm dia and 2m high above ground level formed with 4 nos. of 25x6 mm and 8 nos 25x6 mm flat iron rings in the halves bolted together with 8 mm diameter and 30 mm longs bolts complete in all respects including fixing in the ground with cement concrete complete.	751	Nos.	₹ 3,623	₹ 27,20,873	MSR 22 Vol 2 Page 50 Sl. No. 18
Sub - Total					₹ 44,66,611	
8	General Contingency not more than 3%				₹ 1,33,999	
Grand Total					₹ 46,00,610	

Rupees fortysix lakh six hundred ten only

Prepared by:

Approved by:

[Signature]
Range Forest Officer
Thoubal Forest Range
Govt. of Manipur

[Signature]
Divisional Forest Officer
Thoubal Forest Division
Government of Manipur

Detailed Estimate for Maintenance I in 2nd Year of Plantation

Division: Thoubal Forest Division

Range: Thoubal Range

Name of work: Single Row Avenue Plantation

Length of Plantation (in km.):

3

Design: Single Row Plantation

No. of Plants:

751

Spacing: 4m

S/L	Item of Work	Qty	Unit	Rate	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 125 plants per Manday	6	Manday	₹ 225	₹ 1,350	MFSR 91
2	Procurement of tree saplings (20%) casualty replacement	150	Nos.	₹ 90	₹ 13,500	MFSR 91
3	Procurement of Farm yard manure for mixing with soil in the proportion of 1:1 (1 Farm Yard Manure: 1 soil) (1/2 of 0.216 cum of one pit x 251 pits)	81.1	cum	₹ 882	₹ 71,546	MFSR 91
4	Second weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 250 plants per Manday	3	Manday	₹ 225	₹ 675	MFSR 91
5	Deployment of 1(one) watcher for 365 days including protection from fire hazard, watering etc.	365	Manday	₹ 225	₹ 82,125	
Sub - Total					₹ 1,69,196	
6	General Contingency not more than 3%				₹ 5,076	
Grand Total					₹ 1,74,272	

Rupees one lakh seventy-four thousand two hundred seventy-two only

Prepared by:

[Signature]
Range Forest Officer
Thoubal Forest Range
Govt. of Manipur

Approved by:

[Signature]
Divisional Forest Officer
Thoubal Forest Division
Government of Manipur

Detailed Estimate for Maintenance II in 3rd Year of Plantation

Division: Thoubal Forest Division

Range: Thoubal Range

Name of work: Single Row Avenue Plantation

Length of Plantation (in km.):

3

Design: Single Row Plantation

No. of Plants:

751

Spacing: 4m

S/L	Item of Work	Qty	Unit	Rate	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 125 plants per Manday	6	Man-day	₹ 225	₹ 1,350	MFSR 91
2	Procurement of tree saplings (5%) casualty replacement	38	Nos.	₹ 90	₹ 3,420	MFSR 91
3	Beating up of casualties upto 5% @ 65 sapling/ Manday	1	Man-day	₹ 225	₹ 225	MFSR 91
4	Second weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 250 plants per Manday	3	Man-day	₹ 225	₹ 675	MFSR 91
5	Deployment of 1(one) watcher for 365 days including protection from fire hazard, watering etc.	365	Man-day	₹ 225	₹ 82,125	
Sub - Total					₹ 87,795	
General Contingency not more than 3%					₹ 2,634	
Grand Total					₹ 90,429	

Rupees ninety thousand four hundred twenty nine only

Prepared by:

[Signature]
Range Forest Officer
Thoubal Forest Range
Govt. of Manipur

Approved by:

[Signature]
Divisional Forest Officer
Thoubal Forest Division
Government of Manipur

Detailed Estimate for Maintenance III in 4th Year of Plantation

Division: Thoubal Forest Division

Name of work: Single Row Avenue Plantation

Design: Single Row Plantation

Spacing: 4m

Range : Thoubal Range

Length of Plantation (in km.):

3

No. of Plants:

751

S/L	Item of Work	Qty	Unit	Rate	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 125 plants per Manday	6	Man-day	225	₹ 1,350	MFSR 91
2	Second weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 250 plants per Manday	3	Man-day	225	₹ 675	MFSR 91
3	Deployment of 1(one) watcher for 365 days including protection from fire hazard, watering etc.	365	Man-day	225	₹ 82,125	
Sub - Total					₹ 84,150	
4	General Contingency not more than 3%				₹ 2,525	
Grand Total					₹ 86,675	

Rupees eighty-six thousand six hundred seventy-five only

Prepared by:

Salun
Range Forest Officer
Thoubal Forest Range
Govt. of Manipur

Approved by:

Sub 2
Divisional Forest Officer
Thoubal Forest Division
Government of Manipur

Detailed Estimate for Maintenance IV in 4th Year of Plantation

Division: Thoubal Forest Division
Name of work: Single Row Avenue Plantation
Design: Single Row Plantation
Spacing: 4m

Range : Thoubal Range
Length of Plantation (in km.): 3
No. of Plants: 751

S/L	Item of Work	Qty	Unit	Rate	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 125 plants per Manday	6	Man-day	225	₹ 1,350	MFSR 91
2	Second weeding operation to a width of 1/2 m radius around each plant of 251 nos. including hoeing @ 250 plants per Manday	3	Man-day	225	₹ 675	MFSR 91
3	Deployment of 1(one) watcher for 365 days including protection from fire hazard, watering etc.	365	Man-day	225	₹ 82,125	
Sub - Total					₹ 84,150	
4	General Contingency not more than 3%				₹ 2,525	
Grand Total					₹ 86,675	

Rupees eighty-six thousand six hundred seventy-five only

Prepared by:

Kalam
Range Forest Officer
Thoubal Forest Range
Govt. of Manipur

Approved by:

[Signature]
Divisional Forest Officer
Thoubal Forest Division
Government of Manipur

ABSTRACT OF COST

Name of work :- Erection of small size boundary pillar

Range : Thoubal Range

S/L	Sub-head / Items of works	Qty	Rate	Unit	Amount	Remarks
	Sub-Head:-Earth Work,					
1	Earthwork in excavation in foundation trenches or drains i/c dressing of sides and ramming of bottoms lift upto 1.5 metres I/c getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 metres (b)Hard/Dense soil	0.37	₹ 205	cum	₹ 77	MSR-2022
2	Filling available excavated earth (excluding rock) in trenches, plinth sides of foundation etc. in layers not exceeding 20 cm.in depth, consolidating each deposited layer by ramming and watering lead upto 50 metres lift upto 1.5 metre.	0.12	₹ 172	cum	₹ 21	MSR-2022
	Sub-Head:-Concrete & RCC Work					
3	Providing and laying cement concrete in foundation and plinth excluding the cost of ,centering and shuttering in 1:4:8 (1cement : 4c /sand: 8 graded stone agro. 75 mm nominal size.)	0.08	₹ 7,183	cum	₹ 598	MSR-2022
4	Providing and laying in position specific grade of reinforced cement concrete, excluding the cost of centerring, shuttering, finishing and reinforcement - All work up to plinth level 1:1.5:3 (1 cement : 1.5 c/sand : 3 graded stone agro. 20 mm nominal size.)	0.14	₹ 9,811		₹ 1,339	MSR-2022
5	R.C.C. work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, column, pillars, piers, abutments, post and struts etc up to floor five level excluding cost of centering, shuttering, finishing and reinforcement in 1:1.5:3 (1 cement : 1.5 course sand : 3 graded stone aggrt. 20 mm nominal size)	0.36	₹ 11,429		₹ 4,078	MSR-2022
	Sub-Head:-Reinforcement Steel work					
6	Steel reinforcement for RCC work including straighting, cutting, bending, placing in position and binding all complete - Thermo - Mechanically Treated bars.	45.096	₹ 100	Kgs.	₹ 4,499	MSR-2022
	Sub-Head:-Finishing					
7	15 mm cement plaster 1:3 (1 cement : 3course sand) finished with a floating coat of neat cement.	1.39	₹ 382	sqm	₹ 530	MSR-2022
8	Finishing walls with water proofing cement paint of required shade: New Work	2.60	₹ 81	sqm	₹ 211	MSR-2022
				Sub-Total	₹ 11,352	A
				Deduct 7.50% Contractor's profit from A		₹ 851
				Sub-Total	₹ 10,500	B
				Add 18.00% GST on 60% of B		₹ 1,134
				Add 1.00% for Labour Cess on B		₹ 105
				Add 3.00% Contingency on B		₹ 315
				Grand-Total	₹ 12,054	C
				Say	₹ 12,000	

Rupees twelve thousand only

Total Nos. of Boundary Pillars	30
Cost per pillar	₹ 12,000
Total Amount	₹ 3,60,000

Rupees three lakh sixty thousand only

Prepared by:

[Signature]
Range Forest Officer
Thoubal Forest Range
Govt. of Manipur

Approved by:

[Signature]
Divisional Forest Officer
Thoubal Forest Division
Government of Manipur

DETAILS OF MEASUREMENT

Name of work :- Erection of small size boundary pillar along the boundary

S.L	Particulars (Sub-Head)	No	x	Length	x	Breadth	x	Height	=	Qty	Unit
Sub-Head:-Earth Work											
1	Earthwork in excavation in foundation trenches or drains i/c dressing of sides and ramming of bottoms										
	Trenches	1	x	0.91	x	0.91	x	0.45	=	0.374	cum
									=	0.37	cum
2	Filling available excavated earth (excluding rock) in trenches, plinth sides of foundation etc. in layers										
	1/3 rd of item no. 1				=	1/3	x	0.37	=	0.125	cum
Sub-Head:-Concrete & RCC Work											
3	Providing and laying cement concrete in foundation and plinth excluding the cost of ,centering and										
		1	x	0.91	x	0.91	x	0.1	=	0.083	cum
									=	0.083	cum
4	Providing and laying in position specific grade of reinforced cement concrete, excluding the cost of										
		1	x	0.91	x	0.91	x	0.15	=	0.137	cum
									=	0.137	cum
5	column, pillars, piers, abutments, post and struts etc up to floor five level excluding cost of centering, shuttering,										
		1	x	1.22	x	1.07	x	0.27	=	0.36	cum
									=	0.36	cum
Sub-Head:- Reinforcement Steel work											
6	Steel reinforcement for RCC work including straighting, cutting, bending, placing in position and										
	Refer item no.4			1.35 % of RCC Foundation				0.14	=	0.001	cum
	Refer item no.5			1.40 % of RCC wall				0.36	=	0.004	cum
									=	0.006	cum
						@		7850kg./cum	=	44.21	kgs
				Add 5.0% for lapping and wastage-					=	0.88	kgs
									=	45.10	kgs
Sub-Head:- Finishing Work											
7	15 mm cement plaster 1:3 (1 cement : 3course sand) finished with a floating coat of neat cement.										
		1	x	1.22	x	1.07	x	1.07	=	1.39	sqm
									=	1.39	sqm
8	Finishing walls with water proofing cement paint of required shade: New Work										
		1	x	1.22	x	2.00	x	1.07	=	2.60	sqm
									=	2.60	sqm

Prepared by:

Salau
Range Forest Officer
Thoubal Forest Range
Govt. of Manipur

Approved by:

19/02/2
Divisional Forest Officer
Thoubal Forest Division
Government of Manipur

I/64319/2024

Government of Manipur
Office of the Divisional Forest Officer: Central Forest Division
Mantripukhri: Manipur

No. 4/24/2018/DFO/CFD(NH)
2024
To

Mantripukhri, the 16th July,

The Addl. Principal Chief Conservator of Forests & Nodal Officer (FCA),
Government of Manipur.

Subject: Proposal for diversion of 98.00 Ha of forest land for widening and improvement of Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.000 km from Laikot to Finch corner 30.970 km in the state of Manipur by NHIDCL.

Madam,

In inviting your kind reference to your letter No. 7/310/2022/Forests/412 dated, the 20th May, 2024 on the above cited subject, I have the honour to submit herewith the following 3 (three) detailed estimates for the above project for your kind information and necessary action.

Sl. No.	Name of particulars	Amount in Rs.
1.	Detailed estimate for extraction and felling of trees	Rs. 42,60,000/-
2.	Detailed estimate for Avenue Plantation on road side (Creation to 5 th Year Maintenance)	Rs. 27,63,900/-
3.	Detailed estimate for erection of 220 nos. of boundary pillars.	Rs. 21,27,430/-
Total: Rs.		Rs. 91,51,330/-

(Rupees ninety one lakh fifty one thousand three hundred thirty) only.

Enclosed: As stated above.

Yours faithfully

**Signed by Ganesh
Nagarajan
Date: 16-07-2024 16:57:05**

(N. Ganesh, IFS)
Divisional Forest Officer: Central Forest Division
Government of Manipur

Detailed Estimate for Extraction/Felling of trees in connection with the Propose diversion of 98.00 ha of forest land for widening and improvement of Yaingangpokpi-Nagaland Road Section of NH-202 into two laning with paved shoulder of 0.000 Km from Laikot to Finch Corner 30.970 Km in the state of Manipur by NHIDCL.

Division: Central Forest Division
Range: Sawombung

No. of trees affected: 6605 Nos.
Volume of firewood: 126.63 Cum
No. of stacks: 28
Volume of timber: 342.69 Cum


SN	Items of work	Unit	Qty	Rate	Amount	Remarks
1	Felling of marked trees, delimbling and conversion into logs at the stump site @ 20	mdy	6854	225	1542150	SIFW 1991
2	Transportation of logs from stump site to temporary depot, at Motorable point or Range/Beat office incuding loading and unloading @ 30 mandays/cum	mdy	10281	225	2313225	SIFW 1991
3	Loading of timber to the trucks by majdoors @ 2 mandays/cum	mdy	685	225	154125	SIFW 1991
4	Felling of trees of firewood species and conversion of the felled trees into billets i/c splitting and stacking to the size of 3m x 1.5m x 1m at the dump site @ 26 mandays/stake	mdy	728	225	163800	SIFW 1991
5	Transportation of billets from stump site dumping at the temporary depot (Motorable point) and stacking including loading and	mdays	308	225	69300	SIFW 1991
6	Loading of firewood billets to the departmental/private truck by majdoor @ 1manday/stack	mandays	28	225	6300	SIFW 1991
7	Unloading of billets/firewood and stacking to the size 3M X 1.5X1.1M @ 1manday/stack	mandays	28	225	6300	SIFW 1991
	Contingency				4800	
Total:					4260000	

(Rupees forty two lakh sixty thousand) only

Prepared by:


Range Officer/H.Q.
Central Forest Division
Govt. of Manipur

Approved by:


Divisional Forest Officer
Central Forest Division
Government of Manipur

Detailed Estimate for Creation of Avenue Plantation

Name of Work: Avenue Plantation (Khumidok to Chingarel)
 Design: Single Row Plantation
 Spacing: 6m
 Range & Division: Sawombung Range, Central Forest Division

Length of Plantation (in km.): 5
 No. of Plants: 834

Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	Site clearance, removal of the rank vegetation, brushwood, removal of stump whereby by retaining advance growth @ 12 Manday/ha (10 m wide)	60	Manday	225	13,500.00	Wage Rate as per state Govt. of Manipur Order No. 22/4/2009-FD(PIC) dated 03/01/2017
2	Collection of 5408 stakes for size 60-75cm long, 2.5 cm dia with one end pointed @ 1 Manday for 320 stakes	3	Manday	225	675.00	do
3	Laying out of 834 planting pits and staking of the pits at prescribed spacing for pits up to 1000 nos. per ha @ 1 Manday for 220 pits	4	Manday	225	900.00	do
4	Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/ sludge manure, planting saplings, back filling the trench, watering, fixing the tree guard and maintaining the plants for one year.	834	Nos.	2127	17,73,918.00	Item No. 13 page 40 of MSR 2018 (State PWD)
5	Procurement of 834 tree saplings	834	Nos.	90	75,060.00	Item No. 48 (iii) page 6 of MSR 2018 (State PWD)
6	Procurement of Farm yard manure for mixing with soil in the proportion of 1:1 (1 Farm Yard Manure: 1 soil) (1/2 of 0.216 cum of one pit x 834 pits)	90.072	cum	882.2	79,461.52	Item No. 48 (iv) page 6 of MSR 2018 (State PWD)
7	Making tree guard 53 cm dia and 2 m high as per design from empty bitumen drums (supplied by the department at stock issue rate) including providing and fixing for legs 40 cm long of 30 x 3mm M.S. flat riveted to tree guard and providing and fixing 2 nos. M.S Sheet rings 50 x 0.5 mm with rivets complete in all respects.	834	Nos.	768.5	6,40,912.32	Item No. 4 Page 38 of MSR 2018 (State PWD)
6	Sub - Total				25,84,426.84	
7	General Contingency not more than 2%				50,573.16	
	Grand Total				26,35,000.00	

(Rupees twenty six lakh thirty five thousand) only

Prepared by:

Ragu. Sipa
 Range Forest Officer
 Sawombung
 Govt. of Manipur

Checked by:

Approved by:

[Signature]
 Divisional Forest Officer
 Central Forest Division
 Government of Manipur

Detailed Estimate for Maintenance I in 2nd Year of Plantation

Name of work: Single Row Avenue Plantation

Length of Plantation (in km.):

5

Design: Single Row Plantation

No. of Plants:

834

Spacing: 6m

Range & Division: Sawombung Range, Central Forest Division

Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 5408 nos. including hoeing @ 125 plants per Manday	7	Manday	225	1,575.00	Wage Rate as per state Govt. of Manipur Order No. 22/4/2009-FD(PIC) dated 03/01/2017
2	Procurement of tree saplings (20%) casualty replacement	83	Nos.	90	7,470.00	Item No. 48 (iii) Page 6 of MSR 2018 (State PWD)
3	Beating up of casualties upto 10% (83 nos.) @ 65 sapling/manday.	1	Mdy	225	225.00	Wage Rate as per state Govt. of Manipur Order No. 22/4/2009-FD(PIC) dated 03/01/2017
4	Second weeding operation to a width of 1/2 m radius around each plant including hoeing @ 250 plants per Manday	3	Manday	225	675.00	do
5	Deployment of 2(two) watcher for 180 mandays including protection from fire hazard, watering etc.	180	Manday	225	40,500.00	do
	Sub - Total				50,445.00	
6	General Contingency not more than 2%				555.00	
	Grand Total: Rs.				51,000.00	

(Rupees fifty one thousand) only

Prepared by:

K. Raju Singh
Range Forest Officer
Sawombung
Govt. of Manipur

Checked by:

Approved by:

[Signature]
Divisional Forest Officer
Central Forest Division
Government of Manipur

Detailed Estimate for Maintenance II in 3rd Year of Plantation

Name of work: Single Row Avenue Plantation

Design: Single Row Plantation

Spacing: 6m

Range & Division: Sawombung, Central Forest Division

Length of Plantation (in km.):

5

No. of Plants:

834

Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 834 nos. including hoeing @ 125 plants per Manday	7	Manday	225	1,575.00	Wage Rate as per state Govt. of Manipur Order No. 22/4/2009-FD(PIC) dated 03/01/2017
2	Procurement of tree saplings (5%) casualty replacement	42	Nos.	90	3,780.00	Item No. 48 (iii) Page 6 of MSR 2018 (State PWD)
3	Beating up of casualties upto 5% @ 65 sapling/ Manday	1	Manday	225	225.00	Wage Rate as per state Govt. of Manipur Order No. 22/4/2009-FD(PIC) dated 03/01/2017
4	Second weeding operation to a width of 1/2 m radius around each plant of 834 nos. including hoeing @ 250 plants per Manday	3	Manday	225	675.00	do
5	Deployment of 2(two) watcher for 120 mandays including protection from fire hazard, watering etc.	120	Manday	225	27,000.00	do
	Sub - Total				33,255.00	
6	General Contingency not more than 2%				445.00	
	Grand Total				33,700.00	

(Rupees thirty three thousand seven hundred) only

Prepared by:

K. Ragu. in
Range Forest Officer,
Sawombung
Govt. of Manipur

Checked by:

Approved by:

[Signature]
Divisional Forest Officer
Central Forest Division
Government of Manipur

Detailed Estimate for Maintenance III in 4th Year of Plantation

Name of work: Single Row Avenue Plantation
 Design: Single Row Plantation
 Spacing: 6m
 Range & Division: Sawombung, Central Forest Division

Length of Plantation (in km.): 5
 No. of Plants: 834

Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	First weeding operation to a width of 1/2 m radius around each plant of 5408 nos. including hoeing @ 125 plants per Manday	7	Manday	225	1,575.00	Wage Rate as per state Govt. of Manipur Order No. 22/4/2009-FD(PIC) dated 03/01/2017
2	Second weeding operation to a width of 1/2 m radius around each plant of 5408 nos. including hoeing @ 250 plants per Manday	3	Manday	225	675.00	do
3	Deployment of 2 (two) watcher for 90 mandays including protection from fire hazard, watering etc.	90	Manday	225	20,250.00	do
	Sub - Total				22,500.00	
4	General Contingency not more than 2%				400.00	
	Grand Total				22,900.00	

(Rupees twenty two thousand nine hundred) only

Prepared by:

Checked by:

Approved by:

K. Ragun. Singh

**Range Forest Officer
 Sawombung
 Govt. of Manipur**

[Signature]
**Divisional Forest Officer
 Central Forest Division
 Government of Manipur**

Model Detailed Estimate for Maintenance IV in 5th Year of Plantation

Name of work: Single Row Avenue Plantation

Length of Plantation (in km.):

5

Design: Single Row Plantation

No. of Plants:

834

Spacing: 6m

Range & Division: Sawombung Range, Central Forest Division

Sl. No.	Item of Work	Qty	Unit	Rate (Rs.)	Amount	Remarks
1	Second weeding operation to a width of 1/2 m radius around each plant of 834 nos. including hoeing @ 250 plants per Manday	3	Manday	225	675.00	Wage Rate as per state Govt. of Manipur Order No. 22/4/2009-FD(PIC) dated 03/01/2017
2	Deployment of watcher for 90 mandays including protection from fire hazard, watering etc.	90	Manday	225	20,250.00	do
	Sub - Total				20,925.00	
3	General Contingency not more than 2%				375.00	
	Grand Total				21,300.00	

(Rupees twenty one thousand three hundred) only

Prepared by:

Checked by:

Approved by:

X. Ragun. Sin
Range Forest Officer,
Sawombung
Govt. of Manipur

[Signature]
Divisional Forest Officer
Central Forest Division
Government of Manipur

Abstract of Cost

Division: Central Forest Division

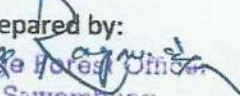
Range: Sawombung

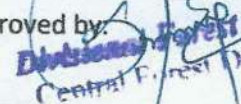
Name of work: Erection of 220 Nos. of boundary Pillars for Propose diversion of 98.00 ha of forest land for widening

SN	Sub-head/Items of works	Qty.	Rate	Unit	Amount	Remarks
1	Carrying out of GPS survey (Latitude, longitude, altitude) checking recording data for interval of 100 M or less along boundary and plotting on drawing/graph paper in rugged terrain	1	100.00	Nos	100.00	L.S.
2	Earth work in excavation in foundation trenches or drains i/c getting out the excavated soil & disposal of surplus excavated soil as directed within a lead of 50m. b) Hard Dense Soil.	0.76	260.05	cum	197.64	Based on MSR 2022
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5mn.	0.25	171.67	cum	42.92	Based on MSR 2022
4	Providing and laying in position specific grade of reinforced cement concrete excluding the cost of centering and shuttering 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm nominal size)	0.15	8815.95	cum	1322.39	Based on MSR 2022
5	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with : Cement mortar 1:6(1 cement: 6 coarse sand)	0.324	6912.06	cum	2239.51	Based on MSR 2022
6	Brick work with 1st class common burnt clay F.P.S. (non modular) bricks in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	0.1	14039.29	cum	1403.929	Based on MSR 2022
7	Providing form works i/c Centering and shuttering including strutting, propping etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts.	0.28	777.92	sqm	217.82	Based on MSR 2022
8	20mm cement plaster 1:3 (1cement: 3 course sand)	1.78	470.77	sqm	837.97	Based on MSR 2022
9	New work (two or more coats) over and including priming coat with cement primer:-	1.78	125.64	sqm	223.64	Based on MSR 2022
10	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	1.78	81.01	sqm	144.20	Based on MSR 2022
11	Printing new letters and figures of RF Name, BP No., Latitude, longitude, Bearings, distance etc. any shade with synthetic paint black or any other approved color to give an even shade - English and Roman.	1	500.00	no.	500.000	L.S.

Estimate Total (Work Value)	:	7230.01
Total for 220 Boundary Pillars	:	1590602.12
Add 18% GST	:	286308.38
Add Labour Cess @ 1%	:	15906.02
Add Contingency @ 3%	:	47718.06
Agency Charge @ 11.75%	:	186895.75
Total Estimated Cost	:	2127430.34
Say Rs.		2127430.00

(Rupees twenty one lakh twenty seven thousand four hundred thirty) only

Prepared by:

 Range Forest Officer
 Sawombung
 Govt. of Manipur

Approved by:

 Divisional Forest Officer
 Central Forest Division