

## TAMILNADU FOREST DEPARTMENT

From  
Thiru.S.Gowtham, I.F.S.,  
District Forest Officer,  
Nilgiris Forest Division,  
Udhagamandalam – 1.

To  
The Principal Chief Conservator of Forests  
(Head of Department) ,  
Forest Head Quarters building,  
Velachery main road,  
Guindy, Chennai – 32

(Through the Conservator of Forests and  
Field Director,  
Mudumalai Tiger Reserve,  
Udhagamandalam)

**Ref.No.2544/2021/D1. Dated.19.04.2023**

Sir,

Sub : Forest (Conservation) Act-1980 – Proposal for diversion of 0.03 ha of Forest land in Droog Reserved Forest in Nilgiris Forest Division for erection of telecommunication tower in Pakkasuranmalai area in the Nilgiris District – Online submission of proposal by the User Agency –M/s Reliance Jio Infocomm Limited Chennai –proposal submission of-Regarding

- Ref 1. Online application uploaded by the User Agency –M/s Reliance JioInfocomm Limited. No.89. Radhakrishnan salai. Mylapore, Chennai -4 Proposal No FP/TN/Others 33940/2018 dated 30.05.2018 and Resubmission of proposal on 15.02.2019 & 08.02.2021
2. The Principal Chief Conservator of Forests (Head of Forest Force), Panagal Maaligai, Chennai C.No.TS3/7248/2021 dated 26.05.2022 and 12.09.2022
3. Part-II of from-A uploaded by the District Forest Officer, Nilgiris Forest Division, Udhagamandalam on 09.07.2022
4. Part-III of Form-A uploaded by the Conservator of Forests and Field Director, Mudumalai Tiger Reserve, Udhagamandalam on 05.09.2022
5. The Principal Chief Conservator of Forests (Head of Forest Force), Panagal Maaligai, Chennai C.No.TS4/22483/2022 dated 13.10.2022
6. The Principal Chief Conservator of Forests and Chief Wildlife Warden, Chennai Ref.No.WL5/38262/2022 dated 02.02.2023

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I submit here with the details called for in the vide reference 2<sup>th</sup> cited above, with respect of Nilgiris Forest Division is furnished below:-

1. The CA scheme for the proposed project has suitably been revised as per the approved estimate communicated in vide reference 5<sup>th</sup> cited above. Accordingly it

is proposed for Rs.12,54,000/- including chain link fence around the plantation area at Rs.10,00,000/- funds required of CA.

- II. It is justified that the chain link fence is proposed for the CA land to provide protection among the Wildlife surrounding the CA land. The cost estimate prepared based on the PWD SSR 2022-23 and is enclosed for kind reference.
- III. The required Human Wildlife conflict mitigation plan with respect to the area of the project has been prepared by the District Forest Officer and got approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden, Chennai in vide reference 6th cited above. The user agency would have to implement the Human-Wildlife mitigation plan with a cost of Rs.12,50,000/- an undertaking certificate received from the user agency and it is enclosed for kind reference.
- IV. The duplicate documents uploaded in the Part-II of Form-A have been deleted in the additional information details.

Further the short comings have been rectified as above, by the District Forest Officer and user agency all the documents have been uploaded in the portal. The hard copies of the same are also enclosed for kind perusal. Hence the proposal may kindly be forwarded to the Government for according necessary permission.

**Enclosure: As state above**

Yours faithfully,  
Sd/- S.Gowtham  
District Forest Officer,  
Nilgiris Forest Division,  
Udhagamandalam.

Copy submitted to The Conservator of Forests and Field Director Mudumalai Tiger Reserve, Udhagamandalam, The Nilgiris District.

True copy / by order

Senior Draughting Officer

19/4/2023

W-202400  
19/4/23



**ABSTRACT ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION OVER  
AN AREA OF 1.00 HA OF DEGRADED FOREST AREA IN COONOOR RANGE OF  
NILGIRIS FOREST DIVISION**

**No of seedlings 100Nos  
For 10% casualty replacement 10 Nos  
Total 110 Nos**

Sl. No	Description of Work	Proposed estimate cost in Rupees	Remarks
1	Cost of Nursery	22000	10% Weightage towards escalation of labour wage rate during 2023-2024
2	Planting Cost	127000	20% Weightage towards escalation of labour wage rate during 2024-2025
3	Providing chainlink fence around the plantation area.	1000000	20% Weightage towards escalation of labour wage rate during 2024-2025
4	1st year maintenance	20000	30% Weightage towards escalation of labour wage rate during 2025-2026
5	2nd year maintenance	14999	40% Weightage towards escalation of labour wage rate during 2026-2027
6	3rd year Maintenance	16000	50% Weightage towards escalation of labour wage rate during 2027-2028
7	4th year Maintenance	5692	60% Weightage towards escalation of labour wage rate during 2028-2029
8	5th year maintenance	6261	70% Weightage towards escalation of labour wage rate during 2029-2030
9	6th year maintenance	6887	80% Weightage towards escalation of labour wage rate during 2030-2031
10	7th year maintenance	7576	90% Weightage towards escalation of labour wage rate during 2031-2032
11	8th year maintenance	8334	100% Weightage towards escalation of labour wage rate during 2032-2033
12	9th year maintenance	9167	110% Weightage towards escalation of labour wage rate during 2033-2034
13	10th year maintenance	10084	120% Weightage towards escalation of labour wage rate during 2034-2035
	<b>Total</b>	<b>1254000</b>	

District Forest Officer,  
Nilgiris Forest Division,  
Udhagamandalam.

14/4/23

# Estimate for Raising Shola Nursery for planting in Coonoor Range of Nilgiris Forest Division during the year 2023-2024

Size of Polybags : 30x45 cm

No of Seedlings 100 Nos

10% Casualties 10 Nos

Period of Nursery: 10 Months

Wages Rate - 2022-2023 : Rs.488.25

SI. No	Qty	Details of Work	FSR Item No	FSL	Rate	Per	Amount
<b>NURSERY OPERATIONS FOR 13x25cm</b>							
1	26.4 M2	Preparation of Nursery site by Clearing and levelling the site for forming standard bed of size 10mx1m	4.1	2.42	1181.57	200 No	156
2	1 Kg	Cost of seeds (2kgs/ 1000 Nos)	LR	-	250	1 No	250
3	110 Nos	Cost of 13x25cmx250G polybags	As per lowest Quotatio		1500	1000 No	165
4	1.056 Cu.m	Formation of germination beds of size 10x1x3 m	PWD SSR item 62		96.60	1 cum	102
5	1.0 Beds	Watering the Germination Beds twice daily with rose can (15days)	4.5.1	0.82	400.37	10 beds / day Beds/ day	601
6	1.0 Beds	Watering the germination beds once daily with rose can (15days)	4.5.2	0.41	200.18	10 beds / day Beds/ day	300
7	0.143 Cu.m	Collection and supply of sand silt and red soil according the requirement of preparation of soil mixture 3/4th of total volume(0.84m3/ 1000 Nos)	LR	-	950.00	Cu.m Cu.m	136
8	0.036 Cu.m	Cost and Transport of farm yard manure for filling bags -1/4th of the total volume (0.28m3/ 1000Nos)	LR	-	950.00	Cu.m Cu.m	34
9	110 Nos	Preparation of soil mixture by breaking clods,seiving, mixing fertile earth (including redsoil, silt and sand according to requiements) and farmyard manure in the reation of 3.1 heaping at the filling site and filling in poly bags arranging bags in beds and pricking out the seedlings	4.6.4	4.48	2187.36	1000 Nos	241



Sl. No	Qty		Details of Work	FSR Item No	FSL	Rate	Per		Amount
10	2.75	Kgs	Cost of Vermicasting @ 25gm / Seedlings	As per research wing rate		10.00	1	Kg	28
11	1.1	Kgs	Cost of Vam@10gm/container			18.00	1	Kg	20
12	0.55	Kgs	Cost of Azospirillum @ 5gm/ container			27.00	1	Kg	15
13	0.55	Kgs	Cost of phosphobacteria @ 5gm/ container			27.00	1	Kg	15
14			Watering the container plants with rose cans						
a	110	Nos	Twice daily -15 days	4.10.4	0.23	112.30	1000	day	185
b	110	Nos	Once daily -30 days	4.11.4	0.115	56.15			185
c	110	Nos	Alternative days spread over 30days (Effective days -15 )	4.11.4	0.115	56.15			93
15	110	Nos	Cost of water for watering the container seedlings 60 watering days	4.18 FSR 1998-99	-	0.85	1000	day	1.40
16	110	Nos	Shifting the container plants weeding grading and replacement of casualties in the bags -(shifting to done once in 21days, 1shifting not before 45days after pricking out - 2 shifts	4.15.4	0.51	249.01	1000	Shift	55
<b>SUB TOTAL-A</b>									<b>2581</b>
<b>PART II - Bigger size bags : 30x45cmx600g</b>									
19	110	Nos	Cost of 30x45cmx600G polybags	As per lowest Quotation	-	9263.00	1000	Nos	1019
20	1.02	M3	Collection and supply of sand silt and red soil according the requirement of preparation of soil mixture 4/5th of total volume (excluding volume of 13 x 25 cm bags) @ 9.23 Cu.m/1000 Nos)	LR		950	1	M3	965
21	0.254	M3	Cost of transport of Farmyard manure for filling bags 1/5th of total volume (@2.31 cu.m/1000nos)			950	1	M3	241

Sl. No	Qty		Details of Work	FSR Item No	FSL	Rate	Per		Amount
22	110	Nos	Preparation of soil mixture by breaking clods, sieving, mixing fertile earth (including red soil, silt and sand according to requirements) and farmyard manure in the ratio of 4:1, heaping at the filling site and filling in poly bags 30x45cm arranging bags in beds and pricking out the seedling (excluding cost of soil mixture and FYM)	4.6.7	28.57	13949.30	1000	Nos	1534
23	3.85	Kg	Cost of Vermicasting @ 35gm / container	NHAI ME		10.00	1	Kg	39
24	1.65	Kg	Cost of Vam@15gm/container			18.00	1	Kg	30
20	1.00	Kg	Cost of Azospirillum @ 6gm/ container			27.00	1	Kg	27
21	1.00	Kg	Cost of phosphobacteria @ 6gm/ container			27.00	1	Kg	27
17	2.00	Maz	Labour cost of transplanting seedlings from 13x25 cm container bags into 30x45 cm containers 10maz/1000	As per ME of MTP		488.25	1	No	977
22	110	Nos	Cost of vertical strick (Casurina poles 5cm-8cm girth and 2.50 m height for each plants)	PWDSSR	-	17.50	1	Rm	1925
23	110	Nos	Cost of Horizontal strick (Casurina poles 5cm-8cm girth and 1.00 m height for each plants)	PWDSSR	-	17.50	1	Rm	1925
24	110	Nos	Tying plants to vertical stick one in a month 2times	ME	-	0.40	1	Each/ time	44
	110	Nos	Pruning the branches once in 2 months 2 times	ME	-	1.00			110
			Watering the container plants with rose can watering regime approved PCCF's Ref.No.J1/57395/2003, dt:12.12.2003						
25	110	Nos	Twice daily - 15days	4.10.7	0.56	273.42	1000	Day	451
26	110	Nos	Once daily - 30 days	4.11.7	0.28	136.71	1000	Shift	451
	110	Nos	Once in alternative days -spread over 60 days (Effective days -30 days )	4.11.7	0.28	136.71	1000	Shift	451
	110	Nos	Twice in a week spread over 105 days (effective days -30 days )	4.11.7	0.28	136.71	1000	Shift	451

SI. No	Qty		Details of Work	FSR Item No	FSL	Rate	Per		Amount
27	110	Nos	Shifting the container plants weeding grading and replacement of casualties in the bags -shifting to done once in 21dyas, 1shiting not before 45days after pricking out - 12 shifts	4.15.7	2.69	1313.39	1000	Shift	1011
	110	Nos	Cost of water for watering the container seedlings 105 watering days	4.18-FSR 1998-99	-	1.60	1000	day	18
28	1	Nos	Nursery protection mazdoors 1 No / 100000 Nos of 30 x 45 cm bags 300 days(90+210)	FSR 2022-2023		488.25	100000/M		2.549
			GST 18% (Item No.3, 17)						213
	5	mont hs	Provision for cost of pesticides and fungasides and labour charges for application of pesticides -2 times/month	LR	-	200.00	1	time	2000
29	LS		Photo & Documentation etc.,	LS					1000
30	LS		Contingencies unforeseen intems if any	LS					2507
SUB TOTAL-B									17419
TOTAL(A+B)									20000

Rate calculated for 2022-2023 20000


Add annual 10% escalation 2023-2024 2000

**Rate for 2023-2024 22000**

#### Specifications;

1)No of seedlings has been proposed for planting based on the Forest (conservation) Act,1980 Guidelines & Clarifications book page no 48, 49 2.6,(i)Compensatory afforestation ha to be carried out ten times the number of trees to be felled. Hence 625 Nos of seedlings has been proposed for 1 ha of degraded forest land with 10% of causality 65 Nos totally 690 nos of seedlings has been proposed

2)The estimate has been prepared based on the PCCF (HOD) Chennai vide Ref no :TS4/22483/2022 Dated:13.10.2022,FSR,PWD SSR -2022-2023 and the local rate.

  
District Forest Officer,  
Nilgiris Forest Division,  
Udhagamandalam.

  
15/10/23



**Estimate for planting shola Seedlings in Coonoor Range of Nilgiris Forest  
Division during 2024-2025**


Size of Polybags : 30x45 cm  
No of Seedlings 100 Nos  
Casualty Replacement 10 Nos  
Wages Rate - 2022-2023 : Rs.488.25

Sl. No	Qty		Details of Work	FSR Item No	FSL	Rate	Per		Amount
1	1	Ha	Removal of invasive species and other jungle Heavy growth	12.1.1	100	48825	1	Ha	48825
2	100	Nos	Aligning and Marking in plantation area	5.2.4	1.38	673.79	100	Nos	673.79
3	100	Nos	Digging of 60cm <sup>3</sup> pits in all types of soil during non rainy season	5.8.1	9.26	4521.2	100	Nos	4521
4	7.20	cum	Cost and transport of farmyard manure each plant 0.6*0.6*0.20=0.072m <sup>3</sup> /pit	As per lowest Quotation	-	1000	1	m <sup>3</sup>	7200
5	100.00	Nos	Application of Farm yard manure by mixing in the pit before planting - 1 Mazdoor for 200 Nos	FSL Wage rate	1	488.25	200	No	244
6	100.00	Nos	Cost of Bio fertilizer including cost of application Vermicompost -1 Kg Bio Fertilizers 100 gms VAM - 100Gm	NHAI ME	-	7.7	1	No	770
7	110	Nos	Transporting saplings (transported to the radius of 40kms)Excluding loading and unloading by private vehicle	NHAI ME	-	7.00	1	Nos	770
8	110	Nos	Loading & Unloading the Container seedlings (30x45cm)in private lorry upto a lead of 2kms (excluding hire charges for the vehicles)	5.11.7	3.29	1606.34	1000	Nos	177
9			Distribution of saplings from where seedlings are stocked to the planting spot upto 500mts.						
a	20	Nos	Upto 100 m	5.15.1	10	4882.50	1000	Nos	98
b	30	Nos	Upto 200 m	5.15.2	17.5	8544.38	1000	Nos	256
c	50	Nos	Upto 500 m	5.15.3	41	20018.00	1000	Nos	1001



Sl. No	Qty		Details of Work	FSR Item No	FSL	Rate	Per		Amount
10	100	Nos	Planting the Container plants by refilling pits of size 60 cm	5.22	1.71	834.91	100	Nos	835
11	251	Rm	Provision of vertical casurina poles 5cm to 8cm 2.50mtr ht, per plant	PWD SSR	-	17.50	1	Rm	4393
12	10	Nos	Replacement of casualties by reopening failed pits and planting the saplings (1/2 pitting rate + full planting rate)	5.23	6.34	3095.51	100	Nos	310
13	100	Nos	Scraping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil - 2 times	5.24	1.23	600.55	100	Nos	601
14	100	Nos	Forming catch water drains for each plant in plains 90 cm x 45 cm x 30 cm size in hard gravelly soil	5.26	6.84	3339.63	100	Nos	3340
15	100	Nos	Watering the plants once in 6 days during non rainy period (from January to March)one mazdoor for 200 plants/watering days (15 watering days )	NHAI ME	-	488.25	200	Nos	244
16	33000	Ltrs	Cost of water @ 20 liter per seedlings 15 watering days (110*x20x15=187500trs)	As per ME	-	1200.00	12000	Lts	33000
17	110	Nos	Removing /scrapping vizal monsoon or bothai grass for one meter dia around the plants	5.27	0.21	102.53	100	Nos	113
18	5	months	Provision for cost of pesticides and fungasides and labour charges fro application of pesticides -2 times /month	LR	-	200.00	1	Times	2000
19	LS	-	Photo & Documentation etc.,	LS					1000
20	LS	-	Contingencies unforeseen intems if any	LS					1985
<b>TOTAL</b>									<b>112355</b>

Rate calculated for	2022-23	Rs	112355
Add 10% escalation for	2023-24	Rs	11235
Add 10% escalation for	2024-25	Rs	3410
<b>Rate for 2024-2025</b>			<b>127000</b>

  
 District Forest Officer,  
 Nilgiris Forest Division,  
 Udthagamandalam.

  
 19/4/24

**Estimate for 1<sup>st</sup> Year Maintenance in Shola plantation in Udhagai North Range of Nilgiris  
Forest Division during - 2025-2026**


Size of Polybags : 30x45 cm  
No of Seedlings 100 Nos  
Casualty Replacement 10 Nos  
Wages Rate - 2022-2023 : Rs.488.25

Sl. No	Qty	Details of Work	FSR Item No	FSL	Rate	Per	Amount
<b>A.Nursery operation</b>							
1	10 Nos	Raising cost of seedlings in 30x45 size polythene bags (As per nursery estimate)	As per nursery estimate		200.00	1 No	2000
<b>B.Planting operation</b>							
	0.72 m3	Cost & transport of farm yard manure each plants (0.6x0.60x0.20=.072m3/pit)	As per lowest Quotation	-	1000	1 No	720
2	10 Nos	Application of farm yard manure by mixing in the pit before planting -1 mazdoor for 200 nos	FSR Wage Rate	-	488.25	200 Nos	24
	10 Nos	Transporting saplings (transported in the radius of 40 kms)excluding loading and unloading in private vehicle	NHAI ME	-	7.00	1 No	70
3	10 Nos	Loading & Unloading the Container seedlings (30x45cm)in private lorry upto a lead of 2kms (excluding hire charges for the vehicles)	5.11.7	3.29	1606.34	1000 Nos	16
4		Distribution of seedlings in the site C.plants upto 500mtrs in plains					
a	2 Nos	Upto 100mt	5.15.1	10	4882.50	1000 Nos	10
	3 Nos	Up to 200m	5.15.2	17.5	8544.38	1000 Nos	26
	5 Nos	Up to 500m	5.15.2	41	20018.25	1000 Nos	100
5	10 Nos	Replacement of casualties by reopening failed pits and planting the seedlings	5.23	5.57	2260.60	100 Nos	226
8	100 Nos	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	600.55	100 Nos	601
7	100 Nos	Cost of bio fertilizers including cost of application vermi-campos 1 kg bio fertilizr 100 gms VAM 100Gms	NHAI ME		7.70	1 No	770
	66000 Ltrs	Cost of water @ 20 liter per seedling 30 watering days (110x20x30=66000)	NHAI ME		1200	12000 Lts	6600



9	100	Nos	Watering the plants once in 6 days (excluding rainy days ) form April to june & january to march @ one mazdoor for 200 plants /watering day(15+15=30 watering days )	4.11.7	0.28	488.25	200	Nos	244
12	LS		Contingencies and unforeseen Expenditure to be restricted to as per actuals						3620
<b>TOTAL</b>									<b>15026</b>

Rate calculated for	2022-23	Rs	15026
Add 10% escalation for	2023-24	Rs	1503
Add 10% escalation for	2024-25	Rs	1653
Add 10% escalation for	2025-26	Rs	1818
<b>Rate for 2025-2026</b>			<b>20000</b>

  
 District Forest Officer,  
 Nilgiris Forest Division,  
 Udhagamandalam.

  
 15/10/23

**Estimate for 2<sup>nd</sup> Year Maintenance in Shola plantation in Udhagai North Range of Nilgiris Forest Division during - 2026-2027**

**No of Seedlings**


**100 Nos**

**Wages Rate - 2022-2023**

**: Rs.488.25**

Sl. No	Qty		Details of Work	FSR Item No	FSL	Rate	Per		Amount
1	100	Nos	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	600.55	100	Nos	601
2	100	Nos	Cost of bio fertilizers including cost of application vermi-campose 1 kg bio fertilizr 100 gms VAM	NHAI ME		7.70	1	No	770
3	60000	Ltrs	Cost of water @ 20 liter per seedling 30 watering days (100x20x30=60000)	NHAI ME		1200	12000	Lts	6000
4	100	Nos	Watering the plants once in 6 days (excluding rainy days ) form April to june & january to march @ one mazdoor for 200 plants /watering day(15+15=30 watering days )	4.11.7	-	488.25	200	Shift	244
5	LS		Contingencies and unforeseen Expenditure to be restricted to as per actuals	LS					2630
<b>TOTAL</b>									<b>10245</b>

Rate calculated for	2022-23	Rs	10245
Add 10% escalation for	2023-24	Rs	1024
Add 10% escalation for	2024-25	Rs	1127
Add 10% escalation for	2025-26	Rs	1240
Add 10% escalation for	2026-27	Rs	1364
<b>Rate for 2026-2027</b>			<b>14999</b>

  
 District Forest Officer,  
 Nilgiris Forest Division,  
 Udhagamandalam.

  
 16/11/23



**Estimate for 3rd Year Maintenance in Shola plantation in Udhagai North  
Range of Nilgiris Forest Division during - 2027-2028**

**No of Seedlings**

**:100 Nos**

**Wages Rate - 2022-2023**

**: Rs.488.25**

Sl. No	Qty		Details of Work	FSR Item No	FSL	Rate	Per		Amount
1	100	Nos	Scraping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil - 2 times	5.24	1.23	600.55	100	Nos	601
2	100	Nos	Cost of bio fertilizers including cost of application vermi-campose 1 kg bio fertilizr 100 gms VAM	NHAI ME		7.70	1	Kg	770
3	60000	Ltrs	Cost of water @ 20 liter per seedling 30 watering days (100x20x30=375000)	NHAI ME		1200	12000	Lts	6000
4	100	Nos	Watering the plants once in 6 days (excluding rainy days ) form April to june & january to march @ one mazdoor for 200 plants /watering day(15+15=30 watering days )	4.11.7	0.28	488.25	200	Nos	244
5	LS		Contingencies and unforeseen Expenditure to be restricted to as per actuals						2320
<b>TOTAL</b>									<b>9935</b>

Rate calculated for	2022-23	Rs	9935
Add 10% escalation for	2023-24	Rs	993
Add 10% escalation for	2024-25	Rs	1093
Add 10% escalation for	2025-26	Rs	1202
Add 10% escalation for	2026-27	Rs	1322
Add 10% escalation for	2027-28	Rs	1455
<b>Rate for 2027-2028</b>			<b>16000</b>

District Forest Officer,  
Nilgiris Forest Division,  
Udhagamandalam.

*C. H. S.*  
19/10/23

**Estimate for 4th Year Maintenance in Shola plantation in Udhagai North Range  
of Nilgiris Forest Division during - 2028-2029**

No of Seedlings

: 100 Nos

Wages Rate - 2022-2023

: Rs.488.25

Sl. No	Qty		Details of Work	FSR Item No	FSL	Rate	Per		Amount
1	100	Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	600.50	100	Nos	601
2	LS		Contingencies and unforeseen Expenditure to be restricted to as per actuals and Photo,Documentation etc.,						2613
<b>TOTAL</b>									<b>3213</b>
					Rate calculated for	2022-23		Rs	3213
					Add 10% escalation for	2023-24		Rs	321
					Add 10% escalation for	2024-25		Rs	353
					Add 10% escalation for	2025-26		Rs	389
					Add 10% escalation for	2026-27		Rs	428
					Add 10% escalation for	2027-28		Rs	470
					Add 10% escalation for	2028-29		Rs	517
<b>1</b>			<b>Rate for 4 th year maintenace</b>					<b>Rs</b>	<b>5692</b>
			Add 10% escalation for			2029-30		Rs	569
<b>2</b>			<b>Rate for 5th year maintenace</b>					<b>Rs</b>	<b>6261</b>
			Add 10% escalation for			2030-31		Rs	626
<b>3</b>			<b>Rate for 6th year maintenace</b>					<b>Rs</b>	<b>6887</b>
			Add 10% escalation for			2031-32		Rs	689
<b>4</b>			<b>Rate for 7th year maintenace</b>					<b>Rs</b>	<b>7576</b>
			Add 10% escalation for			2032-33		Rs	758
<b>5</b>			<b>Rate for 8th year maintenace</b>					<b>Rs</b>	<b>8334</b>
			Add 10% escalation for			2033-34		Rs	833
<b>6</b>			<b>Rate for 9th year maintenace</b>					<b>Rs</b>	<b>9167</b>
			Add 10% escalation for			2034-35		Rs	917
<b>7</b>			<b>Rate for 10 th year maintenace</b>					<b>Rs</b>	<b>10084</b>

District Forest Officer,  
Nilgiris Forest Division,  
Udhagamandalam.

*[Signature]*  
14/11/23




**PROVIDING CHAIN LINK FENCING AROUND THE PROPOSED CA PLANTATION AREA IN  
COONOR RANGE OF NILGIRIS FOREST DIVISION**

**ABSTRACT**

**Amount:Rs. 10,00,000**

S.No.	Qty	Unit	Description of work	Rate	per	Amount
1	5.68	m3	Earth work excavation and depositing on bank with lead of 10 metre and lift 2metre in hard stiff clay, stiff black cotton, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders SS.20B	170.00	m3	966
2	5.68	m3	Plain Cement Concrete 1:2:4, mix using M Sand and machine broken IRC, HBG 20mm metal and including the cost of materials, conveyance and labour charges etc., complete complying with the standard specifications.	8527.01	m3	48,446
3	2535.34	Kg	Supply, fabrication and fixing in position of Mild steel structural works for given design including the cost og materials, welding charges and labour charges etc., complete.	135.80	Kg	3,44,311
4	976.00	m2	Providing chain link fencing 2"x2" using 10 guage (3mm) thick Galvanised iron wires including the cost of labour charges for tying with the angles and cost of the chain link etc., complete complying standard specification.	424.29	m2	4,14,103
5	119.00	m2	Painting two coats over iron works and the rate including cost and conveyance of all materials, labour etc, complete with standard specification.	254.00	m2	30,225
6			Provision for Contingencies and unforeseen intems			933.00
						8,38,983
7	18	%	Provision for GST			1,51,017
8	1	%	Labour Welfare Fund			10,000
<b>Total</b>						<b>10,00,000</b>

(Rupees Ten Lakhs Only)

  
 District Forest Officer  
 Nilgiris Forest Division  
 Udhagamandalam  
 19/4/23

**PROVIDING CHAIN LINK FENCING AROUND THE PROPOSED CA PLANTATION AREA IN  
COONOR RANGE OF NILGIRIS FOREST DIVISION**

**DETAILED ESTIMATE:**

S.No	Description of work	Nos	L	B	D/H	Qty	UNIT
1	Earth work excavation and depositing on bank with lead of 10 metre and lift 2metre in hard stiff clay, stiff black cotton, hard red earth, shales, murrum, gravel, stoney earth and earth mixed with small size boulders SS.20B						
	Leg footing	1 x 164	0.23	0.23	0.60	5.21	
	Cross Suppot	1 x 15	0.23	0.23	0.60	0.48	
						5.68	m3
2	Plain Cement Concrete 1:2:4, mix using M Sand and machine broken IRC, HBG 20mm metal and including the cost of materials, conveyance and labour charges etc., complete complying with the standard specifications.						
	Leg Footing	1 x 164	0.23	0.23	0.60	5.21	
	Cross Suppot	1 x 15	0.23	0.23	0.60	0.48	
						5.68	m3
3	Supply, fabrication and fixing in position of Mild steel structural works for given design including the cost og materials, welding charges and labour charges etc., complete.						
	Leg - 40x40x5mm Angle@2.44m C/C	1 x 164	3.04	@	3.00	1495.68	
	cross support	1 x 15	3.50	@	3.00	157.50	
	Flat 25x5mm	1 x 164	2.44	@	1.00	400.16	
	Flat 25x5mm	1 x 1	400.00	@	1.00	400.00	
	12mm diax40mm length Bolt with nut	5 x 164		@	0.10	82.00	
						2535.34	Kg
4	Providing chain link fencing 2"x2" using 10 guage (3mm) thick Galvanised iron wires including the cost of labour charges for tying with the angles and cost of the chain link etc., complete complying standard specification.						
	Fencing	1 x 1	400.00		2.44	976.00	
						976.00	m2
5	Painting two coats over iron works and the rate including cost and conveyance of all materials, labour etc, complete with standard specification.						
	Leg - 40x40x6mm Angle	1 x 164	2.44	0.16		64.03	
	Cross support - 40x40x6mm Angle	1 x 15	2.90	0.16		6.96	
	Flat 25x6mm	1 x 164	2.44	0.06		24.01	
	Flat 25x6mm	1 x 1	400.00	0.06		24.00	
						119.00	m2
6	Provision for GST					18.00	%
7	Labour Welfare Fund					1.00	%
8	Provision for Contingencies					LS	

  
 District Forest Officer  
 Nilgiris Forest Division  
 Udhagamandalam

C/T  
 19/10/23



# MAIN DATA

1 Earth work excavation and depositing on bank with lead of 10 metre and lift 2metre in hard stiff clay, stiff black cotton, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders SS.20B

Qty	unit	Description	S.No.	P.No.	Rate	per	Amount
1	m3	Earth work	40	22	106.25	m3	106.25
		for Nilgiris add 40%					42.50
		for RF add 20%					21.25
		for open excavation					170.00
					<b>Rate/m3</b>	<b>170.00</b>	

2 Plain Cement Concrete 1:2:4, mix using M Sand and machine broken IRC, HBG 20mm metal and including the cost of materials, conveyance and labour charges etc., complete complying with the standard specifications.

9.00	m3	20mm metal			2478.36	m3	22305.24
4.50	m3	Cement Mortar 1:2 USING M SAND			6995.40	m3	31479.30
1.80	no	Mason class II			884.00	no	1591.20
17.70	no	Mazdoor I class			618.00	no	10938.60
14.10	no	Mazdoor II class			507.00	no	7148.70
		for Nilgiris add 40%			19678.50		7871.40
		for RF add 20%			19678.50		3935.70
							85270.14
					<b>Rate/m3</b>	<b>8527.01</b>	

3 Supply, fabrication and fixing in position of Mild steel structural works for given design including the cost og materials, welding charges and labour charges etc., complete.

Qty	unit	Description	S.No.	P.No.	Rate	per	Amount
1.00	Kg	Cost of steel			58.20	Kg	58.20
1.00	Kg	Labour charges	128	29	48.50	per Kg	48.50
		for Nilgiris add 40%			48.50		19.4
		for RF add 20%			48.50		9.7
							135.80
					<b>Rate/Kg</b>	<b>135.80</b>	

4 Providing chain link fencing 2"x2" using 10 guage (3mm) thick Galvanised iron wires including the cost of labour charges for tying with the angles and cost of the chain link etc., complete complying standard specification.

Qty	unit	Description	S.No.	P.No.	Rate	per	Amount
10.00	m2	Chain link 2"x2" 3mm thick (10guage)	134	44	160.25	m2	1602.50
0.50	Kg	Cost of Binding wire	144	20	56.35	Kg	28.18
1.00	No	Fitter Ist class			836.00	each	836.00
1.10	Nos	Mazdoor 1 class			618.00	each	679.80
0.50	No	Mazdoor II class			507.00	each	253.50
		for Nilgiris add 40%			1769.30		707.72
		for RF add 20%			675.80		135.16
							4242.86
					<b>Rate/m2</b>	<b>424.29</b>	



hour etc,

Amount
182.08
500.72
529.20
831.60

## MATERIALS

**LEAD**

**S.No**

## Materials

**rate**

per

Amount

**1 M SAND**

***Kurundhamalai***

## CONVEYANCE

## Plains

**10.00 Km**

## Hills

**38.00 Km**

1.00 m3	Cost of M Sand	1312.00 m3	1312.00
10.00 km	0-10km plains	11.45 per km	114.50
10.00 km	10 - 20 kms hills	19.58 per km	195.80
20.00	20 - 40 kms hills	16.86 per km	337.20
23.00 km	40-80 km hills	15.82 per km	363.86
0.00 km	above 80 Kms hills	13.26 per km	0.00
63.00 Hills			<b>2323.36</b>

## 2 CEMENT

### Ooty

## Hills

15 Km

1.00 MT	Cement	6040 MT	6040.00
10.00 Km	0 - 10 Km hills	14.32 Km	143.20
5.00 Km	10-20 Km Hills	12.26 KM	61.30
0.00	20 - 40 kms hills	10.54 per km	0.00
0.00 km	40-80 km hills	9.08 per km	0.00
<u>15.00</u>			<u>6244.50</u>

### 3 STEEL

Ooty

## Hills

**15.00 Km**

1.00 MT	Steel	58000 MT	58000.00
10.00 Km	0 - 10 Km hills	14.32 Km	143.20
5.00 Km	10-20 Km Hills	12.26 KM	61.30
0.00	20 - 40 kms hills	10.54 per km	0.00
0.00 km	40-80 km hills	9.08 per km	0.00
<u>15.00</u>			<u>58204.50</u>
		per Kg	58.20



4 20mm metal

Kurundhamalai

CONVEYANCE

	Plains	10.00 Km	
	Hills	38.00 Km	
1.00 m3	cost of 20mm metal	1467.00 m3	1467.00
10.00 km	0-10km plains	11.45 per km	114.50
10.00 km	10 - 20 kms hills	19.58 per km	195.80
20.00	20 - 40 kms hills	16.86 per km	337.20
23.00 km	40-80 km hills	15.82 per km	363.86
0.00 km	above 80 Kms hills	13.26 per km	0.00
<u>63.00</u>			<u>2478.36</u>

*[Signature]*  
District Forest Officer  
Nilgiris Forest Division  
Udhagamandalam

*[Signature]*  
15/6/23

4/4  
15/6/23