

Proposals for Raising of 6.42 Ha Compensatory Afforestation in degraded land in Compt.nos.100 & 101, Gani RF, Panyam Beat, Panyam Section of Kurnool Range in Kurnool Division/District in lieu of proposal for diversion of 3.21 ha of forest land in Panyam RF, Comp.no.145 (Bit1 and Bit2) of Bugganipalli Beat, Compt.no.147 (Bit3, Bit4 and Bit5), Compt.Nos.137 & 148 (Bit6 and Bit7) of Konidedu Beat of Panyam Section of Kurnool Range, Kurnool Division for construction of new double line and electrification of track between Guntur and Guntakal stations at Panyam (Rly Km.275-281 & km 285-288 between Dhone and Nandyal stations in favour of the Deputy Chief Engineer, Construction, Guntakal Division, South Central Railway, Guntakal.

1. Objective		To raise Compensatory Afforestation with the funds of the Deputy Chief Engineer, Construction-IV, South Central Railway, Guntakal in the CA area (double the area in degraded forest land) in lieu of Proposal for diversion of 3.21 ha of forest land in Panyam RF, Comp.no.145 (Bit1 and Bit2) of Bugganipalli Beat, Compt.no.147 (Bit3, Bit4 and Bit5), Compt.Nos.137 & 148 (Bit6 and Bit7) of Konidedu Beat of Panyam Section of Kurnool Range, Kurnool Division for construction of new double line and electrification of track between Guntur and Guntakal stations at Panyam (Rly Km.275-281 & km 285-288 between Dhone and Nandyal stations in favour of the Deputy Chief Engineer, Construction, Guntakal Division, South Central Railway, Guntakal.			
Sl. no	Division	Range	Beat	Location/Compt.No.	Area proposed for diversion in Ha
1	Kurnool	Kurnool	Bugganipalli	Panyam RF, Compt.No.145 (Bit1)	0.73 ha
2	Kurnool	Kurnool	Konidedu	Panyam RF, Compt.No.145 (Bit2)	0.96 ha
3	Kurnool	Kurnool	Konidedu	Panyam RF, Compt.No.147 (Bit3)	0.32 ha
4	Kurnool	Kurnool	Konidedu	Panyam RF, Compt.No.147 (Bit4)	0.21 ha
5	Kurnool	Kurnool	Konidedu	Panyam RF, Compt.No.147 (Bit5)	0.16 ha
6	Kurnool	Kurnool	Konidedu	Panyam RF, Compt.No.137 (Bit6)	0.77 ha
7	Kurnool	Kurnool	Konidedu	Panyam RF, Compt.No.148 (Bit7)	0.06 ha
				Total	3.21 ha
2. Project period		10 years from the year of starting of the project (2023-24- 2034-35).			
3. Location of C.A land		The Compensatory Afforestation area (Degraded Forest Land (DFL)) proposed for raising of plantations in Kurnool Division is as follows.			

Sl. no	Range	Section	Beat	RF & Compt.No.	Remarks
1	Kurnool	Panyam	Panyam	Gani RF, Compt.Nos.100 & 101	Area assessed as per DGPS survey is 10.02 ha

4. Type of the CA land	The proposed Compensatory Afforestation area identified in the Degraded Forest Land (DFL) is Red soil mixed with boulders and suitable for raising of AR(SMM) plantation @ 1000 seedlings per hectare with the Forest species with tall seedlings of 1.5 mtr to 3mtr height by providing provision for watering. Soil Moisture Conservation (SMC) works can also be taken up. The Compensatory Afforestation area is twice the extent of area proposed for diversion is as follows. <table><tr><th>S. no</th><th>Area as per DGPS survey</th><th>Area proposed for treatment</th></tr><tr><td>1</td><td>10.02 Ha</td><td>6.42 Ha</td></tr><tr><td></td><td>10.02 Ha</td><td>6.42 Ha</td></tr></table> The Compensatory Afforestation scheme has been prepared for 6.42 ha (within 10.02 ha) (3.21 ha *2 = 6.42 ha).	S. no	Area as per DGPS survey	Area proposed for treatment	1	10.02 Ha	6.42 Ha		10.02 Ha	6.42 Ha
S. no	Area as per DGPS survey	Area proposed for treatment								
1	10.02 Ha	6.42 Ha								
	10.02 Ha	6.42 Ha								
5. Vegetation	The vegetation in the proposed degraded forest land identified in Compartment No.100, Gani RF, Panyam Beat is <i>Hardwickia binata</i> (Narepi), <i>Azadirachta indica</i>(Neem), <i>Pongamia pinnata</i>(Kanuga), <i>Albizia amara</i> (Chigara), <i>Ziziphus xylopyrus</i> (Gotti), <i>Bobbili</i> etc., and other thorny bushes etc.,									
6. Treatment Proposed	<u>Semi Mechanical Method of Planting:-</u> The treatment proposed for raising of Compensatory Afforestation area is under Semi Mechanical Method of Plantation depending up on the type of soil, density of vegetation. Tall plants of size 8"x12" are proposed for planting in 0.45 mt cube pits to facilitate quick establishment and growth. For loosening the top soil and to facilitate water absorption and good growth ploughing is preferred. Boundary Pillars in 18 Nos are proposed to construct around the degraded forest land.									

	Soil & Moisture Conservation (SMC) works are proposed to take up in the above CA area identified such as RFDs, PTs/MPTs, Check dams & CCTs etc. Provision for repairs and maintenance of office building of executive staff of Kurnool Range have been included. The Compensatory Afforestation area should be raised under Semi Mechanical Method and to be maintained upto 10 years to ensure good results.																														
7. Proposed species	Considering the terrain and condition of soil in the proposed area, the following species are proposed, keeping in view of the instructions issued by the Principal Chief Conservator of Forests, (HoFF), Andhra Pradesh, Hyderabad in Rc.no.4775/2003-F5, dt.21.02.2005.																														
	<table border="1"> <thead> <tr> <th>Sl.No</th><th>Species</th><th>Type</th><th>Species</th></tr> </thead> <tbody> <tr> <td>1</td><td>NTSH species</td><td>Large canopy plants</td><td>1. <i>Hardwickia binata</i></td></tr> <tr> <td></td><td></td><td></td><td>2. <i>Azadirachta indica</i></td></tr> <tr> <td></td><td></td><td></td><td>3. <i>Dolichandrone crispera</i></td></tr> <tr> <td></td><td></td><td></td><td>4. <i>Soymida febrifuga</i></td></tr> <tr> <td></td><td></td><td></td><td>5. <i>Holoptelea integrifolia</i>,</td></tr> <tr> <td></td><td></td><td></td><td><i>etc.</i></td></tr> </tbody> </table>	Sl.No	Species	Type	Species	1	NTSH species	Large canopy plants	1. <i>Hardwickia binata</i>				2. <i>Azadirachta indica</i>				3. <i>Dolichandrone crispera</i>				4. <i>Soymida febrifuga</i>				5. <i>Holoptelea integrifolia</i> ,				<i>etc.</i>	Planting tall plants of suitable species with height not less than 1.50 mtrs are proposed for planting.	
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1	NTSH species	Large canopy plants	1. <i>Hardwickia binata</i>																												
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			<i>etc.</i>																												
8. Agency for funding	The Deputy Chief Engineer, Construction, Guntakal Division, South Central Railway, Guntakal, Andhra Pradesh, Guntakal, DRM Office, Guntakal, Pin : 515801 Tele: 91-8554-275599/248136 Email address : dycecngtl@gmail.com Landline Telephone No. : 8552-226514 Mobile No : 9701372144																														
9. Agency for implementation of Compensatory Afforestation.	A.P.Forest Department																														
10. Cost of the Scheme	Rs.75.100 lakhs.																														


Forest Range Officer,
Kurnool


District Forest Officer
Kurnool

**SITE INSPECTION REPORT OF THE DISTRICT FOREST OFFICER, KURNOOL IN
DEGRADED FOREST LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION
PURPOSE IN GANI RF, COMPT.NO.100 & 101, KURNOOL RANGE OF KURNOOL DIVISION.**

On 26-04-2022, I along with Forest Range Officer, Kurnool, concerned field staff and representative of the Railway authority have inspected the degraded forest land identified in Gani RF, Compt.No.100 & 101, Panyam Beat, Panyam Section, Kurnool Range of Kurnool Division for raising of Compensatory Afforestation plantation in lieu of proposal for diversion of 3.21 ha of forest land in Panyam RF, Comp.no.145 (Bit1 and Bit2) of Bugganipalli Beat, Compt.no.147 (Bit3, Bit4 and Bit5), Compt.Nos.137 & 148 (Bit6 and Bit7) of Konidedu Beat of Panyam Section of Kurnool Range, Kurnool Division for construction of new double line and electrification of track between Guntur and Guntakal stations at Panyam (Rly Km.275-281 & km 285-288 between Dhone and Nandyal stations in favour of the Deputy Chief Engineer, Construction, South Central Railway, Guntakal.

The user agency had completed the DGPS survey of the degraded forest land identified in Gani RF, Compt.No.100 & 101, Panyam Beat, Panyam Section, Kurnool Range of Kurnool (T) Division for Compensatory Afforestation purpose and the area assessed is 10.02 ha. The degraded forest land (DFL) area map has been authenticated by the PCCF & HoFF, AP, Guntur vide Ref.no. Ref.no.EFS02-15024/1/2022-FCA SEC-PCCF/FCA-1, dt.26.05.2022. The vegetation in the proposed degraded forest land is *Hardwickia binata* (Narepi), *Azadirachta indica* (Neem), *Pongamia pinnata* (Kanuga), *Albizia amara* (Chigara), *Ziziphus xylopyrus* (Gotti), *Bobbili* etc., and other thorny bushes.

The soil is Red soil and suitable for raising of Artificial Regeneration Plantation with forest species and the site is suitable from management and protection point of view. The Compensatory Afforestation should be raised under Semi Mechanical Method (SMM) and the plantation maintained upto 10 years to ensure good results and Soil Moisture Conservation (SMC) works can also be taken up.

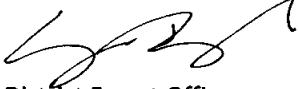
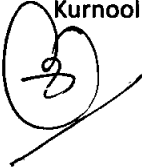



District Forest Officer,
Kurnool

ABSTRACT

S.No	Description of item	Phy	Fin (Rs in lakhs)
1	Cost of Plantation		
a	Raising & maint. Of nurseries	13500 nos	3.846
b	Raising and maintenance of plantations (including pprovision for watering and imported soil)	6.42 ha	45.543
2	Construction of boundary pillars	18 nos	2.394
3	SMC works 15% on the plantation cost (RFDs/PTs/MPTs/CDs/CCTs)	LS	6.500
4	Monitoring & Evaluation (5% on the plantation cost)	LS	2.270
5	Overheads (10% on the plantation cost) (Repairs and replacement of Govt. buildings/ Main. Of Computers and Govt. vehicles /Office support like wages to Computer Operator and other misc. expenses etc.,) for O/o DFO(T), Kurnool	LS	4.546
6	Provision for repairs and maintenance of office building of executive staff of Kurnool Range	1 No	10.000
		Gr.Total	75.100


Forest Range Officer,
Kurnool Range, Kurnool


District Forest Officer
Kurnool (T) Division, Kurnool


COMPENSATORY AFFORESTATION ACTION PLAN FOR RAISING OF 6.42 HA IN DEGRADED FOREST LAND IDENTIFIED IN GANI RF, COMPT.NO.100 & 101, PANYAM BEAT, PANYAM SECTION, KURNOOL RANGE OF KURNOOL (T) DIVISION KURNOOL DISTRICT IN LIEU OF PROPOSAL FOR DIVERSION OF 3.21 HA OF FOREST LAND IN PANYAM RF, COMP.NO.145 (BIT1 AND BIT2) OF BUGGANIPALLI BEAT, COMPT.NO.147 (BIT3, BIT4 AND BIT5), COMPT.NOS.137 & 148 (BIT6 AND BIT7) OF KONIDEDU BEAT OF PANYAM SECTION OF KURNOOL RANGE, KURNOOL DIVISION FOR CONSTRUCTION OF NEW DOUBLE LINE AND ELECTRIFICATION OF TRACK BETWEEN GUNTUR AND GUNTAKAL STATIONS AT PANYAM (RLY KM.275-281 & KM 285-288 BETWEEN DHONE AND NANDYAL STATIONS IN FAVOUR OF THE DEPUTY CHIEF ENGINEER, CONSTRUCTION, GUNTAKAL DIVISION, SOUTH CENTRAL RAILWAY, GUNTAKAL

ABSTRACT CUM YEAR WISE ACTION PLAN

Sl. no (1)	Name of the work (2)	Unit (3)	Unit rate (4)	2023-24		2024-25		2025-26		2026-27		2027-28		2028-29	
				Phy (5)	Fin (6)	Phy (7)	Fin (8)	Phy (9)	Fin (10)	Phy (11)	Fin (12)	Phy (13)	Fin (14)	Phy (15)	Fin (16)
I	Nursery Raising and Maintenance														
a	Raising of 8"x12" nursery	1000 Nos	0.150	13500	2.025										
b	Maintenance of Nursery	1000 Nos	0.080			13500	1.080								
		1000 Nos	0.088					4942	0.435						
		1000 Nos	0.097							3157	0.306				
	Total Nursery cost				2.025		1.080		0.435		0.306		0.000		0.000
II	Plantation														
a	Advance Operations	Ha	0.600	6.42	3.852										
b	Raising of plantation	Ha	1.331			6.42	8.545								
c	1st year maintenance	Ha	1.104					6.42	7.088						
d	2nd year maintenance	Ha	0.523							6.42	3.358				
e	3rd year maintenance	Ha	0.384									6.42	2.465		
f	4th year maintenance	Ha	0.422											6.42	2.709
g	5th year maintenance	Ha	0.354												
h	6th year maintenance	Ha	0.389												
IV	7th year maintenance	Ha	0.428												
j	8th year maintenance	Ha	0.471												
k	9th year maintenance	Ha	0.518												
l	10th year maintenance	Ha	0.570												
	Total Plantation cost				3.852		8.545		7.088		3.358		2.465		2.709
IV	Boundary pillars around the Plantation site	Nos	0.133	0	0.000	18	2.394		0.000		0.000		0.000		0.000
V	SMC works 15% on the plantation cost (RFDs/PTs/MPTs/CDs/CCTs)	LS	--		0.000		0.000		0.650		0.650		0.650		0.650
VI	Monitoring & Evaluation (5% on the plantation cost)	LS	--		0.000		0.000		0.220		0.220		0.220		0.220
VII	Overheads (10% on the plantation cost) (Repairs and replacement of Govt. buildings/ Main. Of Computers and Govt. vehicles /Office support like wages to Computer Operator and other misc. expenses etc.) for O/o DFO(T), Kurnool	LS	--		0.000		0.450		0.450		0.450		0.450		0.450
VIII	Provision for repairs and maintenance of office building of executive staff of Kurnool Range	Nos	--	1	5.000	1	5.000		0.000		0.000		0.000		0.000
	Grand Total				10.877		17.469		8.843		4.984		3.785		4.029


Forest Range Officer,
Kurnool Range


District Forest Officer
Kurnool (T) Division, Kurnool

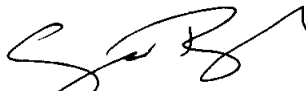
Data for Raising of Misc. Nursery in 8"x12"x400 Guage Bag

Unit - 1000 Nos.

S. No	Quantity	Description of work	2022-23 FSR Item No.	Rate	Per	Amount
1	2	3	4	5	6	7
1	1 No.	Preparation of New site - by clearing misceleneous unvaible Jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.,	01-02-001	7.12	Bed	7.12
2	1 No.	Digging soil to a depth of 30 cm. (as per CSSR)	01-02-003	52.74	Bed	52.74
3	1 No.	Cost of sandy soil 50% of dugged quantity and transportation taken from private lands, with 5 kms lead loading and unloading charges by mannual means (Sandy soil and FYM. in 5:1 proprtion) 0.125 cum per bed. (as per CSSR)	01-02-004	43.23	Bed	43.23
4	1 No.	Cost and transport of Farm yard manure (Sandy soil and FYM. in 5:1 proprtion) 0.025 cum per bed.	As per actual	220.00	Cum	220.00
5	1 No.	Preparation of soil mixture of red earth/sand and farm yard manure in 5:1 proportion and formation of bed by refilling the excavated portion of the bed and filling of bed.	01-02-006	14.72	Bed	14.72
6	1 No.	Cost of seed (Misc.) @ 2 KG / bed	As per actual	330.00	Kgs	330.00
7	1 No.	Sowing of seed and covering the bed with hay including cost and conveyance to a thickness of 2.5 cm.	01-02-008	16.74	Bed	16.74
8	1 No. / 2 months	Watering the primary nursery beds with rose water cans for a maximum period of 2 months.	01-02-009	18.79	Bed/ month	37.58
9	1 No. / 2 times	Weeding the primary beds. Maximum of 2 times	01-02-010	2.78	Bed/ month	5.56
10		Contingencies				122.31
		TOTAL (for 1000 seedlings)				850.00
		Bag plants nursery in 8"x12" size				
11	1 No	Site Preparation for New site - for clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts.	01-03-001	71.86	Bed	71.86
12	1100 Nos.	Cost and transport of ingradient for Potting mixture Red Soil and Clayey Soil in 2:1 ratio. (as per CSSR 2011-12) 20 cm X 30 cm (8" X 12") - 3.82 cum.	01-03-006	1323.98	1000 Nos.	1456.38

S. No	Quantity	Description of work	2022-23 FSR Item No.	Rate	Per	Amount
1	2	3	4	5	6	7
13	1100 Nos.	Preparation of potting mixture Red Soil and Clayey Soil in 2:1 ratio by powdering of various ingredients, sieving and mixing them in the prescribed proportion, Opening the bags and filling with potting mixture and gently pressing the same with finger tip	01-03-011	3839.32	1000 Nos.	4223.25
14	12.79 Kgs	Cost of polythene bags	01-03-013	141.60	Kgs	1811.06
15	1100 Nos.	COST OF PRIMARY BEDS (Rs. 750 for 250 Seedlings for each seedling 750 / 250 =Rs. 3.00)	As per Data	0.75	Per Seedling	825.00
16	1100 Nos.	Picking out seedlings from primary beds and transplanting in bags.	01-03-014	191.05	1000 Nos.	210.16
17	1.25 Bed / 4 Months	Watering the plants twice a day for 10 m X 1 m size bed (2600 4" X 7" bags; 1700 5" X9" bags ; 1100 6"X12" bags and 800 8"X12" bags)	01-03-016	353.15	Per bed /month	1765.75
18	1.25 Bed / 2 times	Weeding only two times for 10 m X 1 m size bed (2600 4" X 7" bags; 1700 5" X9" bags ; 1100 6"X12" bags and 800 8"X12" bags)	01-03-017	68.08	Per bed/ weeding	170.20
19	1.25 Bed	Shifting and grading and re-arranging in beds for 10 m X 1 m size bed (2600 4" X 7" bags; 1700 5" X9" bags ; 1100 6"X12" bags and 800 8"X12" bags) Only once.	01-03-018	312.10	Per bed/ shifting	390.13
20	1100 Nos.	Cost of chemicals, insecticides, pesticides etc.,	01-03-019	As per actual		880.00
21		Contingencies such as electricity bills, maintenance of motor and pipe line etc				546.22
Rate for 2021-22						12350.00
Add 10% extra rate for 2022-23						13600.00
Add 10% extra rate for 2023-24						15000.00


 Forest Range Officer,
 Kurnool

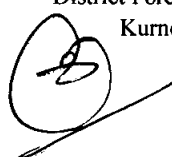

 District Forest Officer
 Kurnool

Data for Maintenance of Misc. Nursery in 8"x12" Bag

Unit - 1000 Nos.

S. No	Quantity	Description of work	2022-23 FSR Item No.	Rate	Per	Amount
1	2	3	4	5	6	7
1	1.25 Bed	Watering the plants twice a day for 10 m x 1 m; (800 - 8"x12" bags) (4 months)	01-03-020	353.15	Per Bed/ Month	1765.75
2	1.25 Bed	Weeding 4 times for 10m x 1m size bed (800 - 8"x12" bags)	01-03-021	68.08	Per Bed/ Weeding	340.40
3	1.25 Bed	Shifting and grading and re-arranging in beds for 10m x 1m size bed (800 - 8"x12" bags) (2 times)	01-03-022	312.10	Per Bed/ Shifting	780.25
4	1.25 Bed	Cost of Cow dung slurry	01-03-023	400.00	Per Bed	500.00
5	1000 Nos.	Application of cow dung slurry at the rate of 100 ml to 250 ml per plant depending upon the size of the plant monthly twice and maximum of three times (once in raising and 2 times in maintenance)	01-03-024	282.78	1000 Nos. per time	565.56
		Maintenance of bag nursery From August onwards till disposal				
6	1.25 Bed	Watering the plants twice a day for 10 m x 1 m; (800 - 8"x12" bags) (4 months)	01-03-025	176.58	Per Bed/ Month	882.90
7	1.25 Bed	Cost of protection (one watcher is allowed upto 100 beds nursery under all the schemes and more than 100 beds one more watcher is allowed)	01-03-031	71.76	As per District Collector Wage rate	717.60
8	1 No.	Contingencies / Cost of pipes/Nursery Board/Nursery implements/ Electrical bills, and maintenance charges of Oil engine (Bills to be verified and certified by the ACF/DFO) etc.				447.54
Rate for 2021-22						6000.00
Add 10% extra rate for 2022-23						6600.00
Add 10% extra rate for 2023-24						7300.00
Add 10% extra rate for 2024-25						8000.00
Add 10% extra rate for 2025-26						8800.00
Add 10% extra rate for 2026-27						9700.00

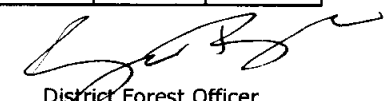
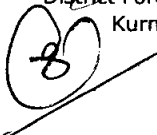

Forest Range Officer,
Kurnool


District Forest Officer
Kurnool


Data for Advance Operations for 1 Ha. Under Semi Mechanical Method

Sl. No.	Qty	Description of work	FSR Item No.	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Plantation	Survey with GPS (Only staff to carry out) one manday is allowed for assistance (as per RSSR)	02-02-001	275.53	Plantation	275.53
2	1 Ha.	Preparation of site for planting by clearing thorny unsaleable, unusable jungle growth, creepers, bushes etc. spreading the cut material all over the site and burning the same.	02-02-004	8105.55	Ha.	8105.55
		Light Jungle growth (> 20% and upto 30% ground area covered with Jungle growth)				
3	1 Ha.	Uprootal of stumps to a depth of 45 cm (excluding unsuitable patches) with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal and leveling.	02-02-009	21623.65	Ha.	21623.65
		Light Jungle growth (> 20% and upto 30% ground area covered with Jungle growth)				
4	1 Ha.	Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site.	02-02-013	13288.12	Ha.	13288.12
		Light Jungle growth (> 20% and upto 30% ground area covered with Jungle growth)				
5	1 Ha.	Deep ploughing the plantation area to a depth of 30 cm with heavy duty tractor of 45 HP and above across the slope with mould board plough. (untilled Areas)	02-02-019	4841.52	Ha	4841.52
		Hard /Gravelly Soils (50% extra on ordinary soil rate)				
6		Contingencies				1365.63
Rate for 2021-22						49500.00
Add 10% extra rate for 2022-23						54500.00
Add 10% extra rate for 2023-24						60000.00


 Forest Range Officer,
 Kurnool

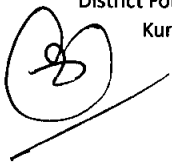

 District Forest Officer
 Kurnool


Data for Raising of Plantation at 3 Mtr x 3 Mtr. under Semi Mechanical Method for 1 Ha.

Sl. No.	Qty	Description of work	FSR Item No. 2022-23	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	1111 Nos.	Aligning and marking with guide pits	02-03-003	108.15	100 Nos.	1201.55
2	1111 Nos.	Digging of 45 Cm ³ pits in ploughed area	02-03-025	13.45	each	14942.95
3	1111 Nos.	Transport of 8"x12" PP seedlings by 30 Kms lead -	02-03-010 & 02-03-015	396.45	100 Nos.	4404.56
4	1111 Nos.	Internal transport of 8"x12"	02-03-020	183.58	100 Nos	2039.57
5	1111 Nos.	Planting seedlings in 45 Cm ³ pits	02-03-034	565.53	100 Nos	6283.04
6	1111 Nos.	Cost of Chemical fertilisers (50grm SSP for basal dressing, 20 grm DAP after planting for 30 cm ³ & 45 cm ³ pits).	02-03-031	2.00	As per actuals	2222.00
7	1111 Nos.	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cmts away from plant amd putting fertilizers and closing	02-03-032	50.79	100 Nos.	564.28
8	1111 Nos.	Circular weeding cum soil working to a radius of 50 Cms around the plant in HG soils (2 times)	02-03-039	848.29	100 Nos	9424.50
9	1 Ha.	Interploughing to 30 Cms depth with HD tractor to 45 HP (2 times)	02-03-045	4841.52	1 Ha	4841.52
10	1111 Nos.	Enumeration of survivals 10% to survivals and 5% height once in November after growing season and once in March in dry season	02-03-054	30.29	100 Nos.	336.52
11	1111 Nos./ 10 times	Provision of watering for the seedlings planted 10 times	02-03-057	3.87	Per Plant per one time	42995.70
		Replacement Casualties - 20%				
12	222 Nos.	Reopening of 45cm ³ pits 50% of Original rate	02-03-025	13.45	each	2985.90
13	222 Nos.	Transport of 8"x12" PP seedlings by 30 Kms lead -	02-03-010 & 02-03-015	396.45	100 Nos.	880.12
14	222 Nos.	Internal transport of 8"x12"	02-03-020	183.58	100 Nos.	407.55
15	222 Nos.	Planting seedlings in 45 Cm ³ pits	02-03-034	565.53	100 Nos	1255.48

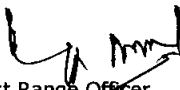
16	1 Ha./ 9 Months	Wages for watch and ward from June to March @ Rs.8684/20 Ha-1 No@ Rs.334/- per day for 26 days in a month (As per District Collector wage rate)	02-03-053	334.00	Ha / PM	3006.00
17	160 RMT	Fire lines to a width of 3 Mtrs.wide	02-03-049	7.88	Rmt	1260.80
18	L.S	Contingencies				948.00
Rate for 2021-22						100000.00
Add 10% extra rate for 2022-23						110000.00
Add 10% extra rate for 2023-24						121000.00
Add 10% extra rate for 2024-25						133100.00

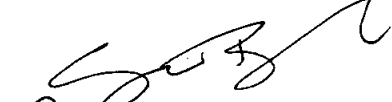

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Data for 1st Year Maintenance of AR (SMM) Plantation for 1 Ha.

Sl. No.	Qty	Description of work	FSR Item No. 2022-23	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		Replacement Casualties - 25%				
1	278 Nos.	Reopening of 45cm ³ pits 50% of Original rate	02-03-025	26.91	Each	7480.98
2	278 Nos.	Transport of 8"x12" PP seedlings by 30 Kms lead -	02-03-010 & 02-03-015	396.45	100 Nos.	1102.13
3	278 Nos.	Internal transport of 8"x12"	02-03-020	183.58	100 Nos.	510.35
4	278 Nos.	Planting seedlings in 45 Cm ³ pits	02-03-034	565.53	100 Nos	1572.17
5	1111 Nos.	circular weeding cum soil working to a radius of 50 Cms around the plant in HG soils (2 times)	02-04-007	848.29	100 Nos	9424.50
6	1 Ha.	Interploughing to 30 Cms depth with HD tractor to 45 HP	02-04-004	4841.52	1 Ha	4841.52
7	160 RMT	Creation of Fire lines 3 mts wide	02-04-008	7.88	Rmt	1260.80
7(a)	1111 Nos/ 10 Times	Watering the plants 10 times	02-03-057	3.87	Per plant per time	42995.00
8	1 Ha./ 12 Months	Wages for watch and ward from April to March @ Rs.8684/20 Ha-1 No@ Rs.334/ per day for 26 days in a month (As per District Collector wage rate)	02-04-009	334.00	Ha / PM	4008.00
9	880 Nos.	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3 rd height.	02-04-010	160.55	100 Nos	1412.84
10	1 Ha.	Enumeration of survivals, pest control, labour amenities, sharpening of tools, etc.	02-04-011	164.92	Ha	164.92
11	LS	Contingencies				726.78
Rate for 2021-22						75500.00
Add 10% extra rate for 2022-23						83000.00
Add 10% extra rate for 2023-24						91300.00
Add 10% extra rate for 2024-25						100400.00
Add 10% extra rate for 2025-26						110400.00


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Data for 2nd Year Maintenance of AR (SMM) Plantation for 1 Ha.

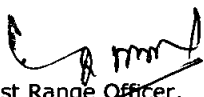
Sl. No.	Qty	Description of work	FSR Item No.2022-23	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		Replacement Casualties - 25%				
1	278 Nos.	Reopening of 45cm ³ pits 50% of Original rate	02-03-025	26.91	Each	7480.98
2	278 Nos.	Transport of 8"x12" PP seedlings by 30 Kms lead -	02-03-010 & 02-03-015	396.45	100 Nos.	1102.13
3	278 Nos.	Internal transport of 8"x12"	02-03-020	183.58	100 Nos.	510.35
4	278 Nos.	Planting seedlings in 45 Cm ³ pits	02-03-034	565.53	100 Nos	1572.17
5	1111 Nos.	circular weeding cum soil working to a radius of 50 Cms around the plant in HG soils (2 times)	02-04-007	848.29	100 Nos	9424.50
6	1 Ha.	Interploughing to 30 Cms depth with HD tractor to 45 HP	02-04-004	4841.52	1 Ha	4841.52
7	160 RMT	Creation of Fire lines 3 mts wide	02-04-008	7.88	Rmt	1260.80
8	1 Ha./ 12 Months	Wages for watch and ward from April to March @ Rs.8684/20 Ha-1 No@ Rs.334/- per day for 26 days in a month (As per District Collector wage rate)	02-04-009	334	Ha / PM	4008.00
9	880 Nos.	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3 rd height.	02-04-010	160.55	100 Nos	1412.84
10	1 Ha.	Enumeration of survivals, pest control, labour amenities, sharpening of tools, etc.	02-04-011	164.92	Ha	164.92
11	LS	Contingencies				721.78
Rate for 2021-22						32500.00
Add 10% extra rate for 2022-23						35700.00
Add 10% extra rate for 2023-24						39300.00
Add 10% extra rate for 2024-25						43200.00
Add 10% extra rate for 2025-26						47500.00
Add 10% extra rate for 2026-27						52300.00


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Data for 3rd Year Maintenance of AR (SMM) Plantation for 1 Ha

Sl. No.	Qty	Description of work	FSR Item No.2022-23	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	1111 Nos.	Circular weeding cum soil working in HG soils	02-06-001	848.29	100 Nos	9424.50
2	1 Ha.	Deep Interploughing with heavy duty tractor	02-06-004	4841.52	1 Ha	4841.52
3	160 RMT	Creation of Fire lines 3 mts wide	02-06-005	7.89	Rmt	1262.40
4	1 Ha./ 12 Months	Wages for watch and ward from April to March @ Rs.8684/20 Ha-1 No@ Rs.334/- per day for 26 days in a month (As per District Collector wage rate)	02-06-006	334	Ha / PM	4008.00
5	880 Nos.	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3 rd height.	02-06-007	160.55	100 Nos	1412.84
6	1 Ha.	Enumeration of survivals, pest control, labour amenities, sharpening of tools, etc.	02-06-008	164.92	Ha	164.92
7	LS	Contingencies				486.00
Rate for 2021-22						21600.00
Add 10% extra rate for 2022-23						23800.00
Add 10% extra rate for 2023-24						26200.00
Add 10% extra rate for 2024-25						28800.00
Add 10% extra rate for 2025-26						31700.00
Add 10% extra rate for 2026-27						34900.00
Add 10% extra rate for 2027-28						38400.00


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Data for 4th Year Maintenance of AR (SMM) Plantation for 1 Ha

Sl. No.	Qty	Description of work	FSR Item No.2022-23	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	1111 Nos.	Circular weeding cum soil working in HG soils	02-06-001	848.29	100 Nos	9424.50
2	1 Ha.	Deep Interploughing with heavy duty tractor	02-06-004	4841.5	1 Ha	4841.52
3	160 RMT	Creation of Fire lines 3 mts wide	02-06-005	7.89	Rmt	1262.40
4	1 Ha./ 12 Months	Wages for watch and ward from April to March @ Rs.8684/20 Ha-1 No@ Rs.334/- per day for 26 days in a month (As per District Collector wage rate)	02-06-006	334	Ha / PM	4008.00
5	880 Nos.	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3 rd height.	02-06-007	160.55	100 Nos	1412.84
6	1 Ha.	Enumeration of survivals, pest control, labour amenities, sharpening of tools, etc.	02-06-008	164.92	Ha	164.92
7	LS	Contingencies				486.00
Rate for 2021-22						21600.00
Add 10% extra rate for 2022-23						23800.00
Add 10% extra rate for 2023-24						26200.00
Add 10% extra rate for 2024-25						28800.00
Add 10% extra rate for 2025-26						31700.00
Add 10% extra rate for 2026-27						34900.00
Add 10% extra rate for 2027-28						38400.00
Add 10% extra rate for 2028-29						42200.00


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Data for 5th Year to 10th year Maintenance of AR (SMM) Plantation for 1 Ha

Sl. No.	Qty	Description of work	FSR Item No.	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	160 RMT	Creation of Fire lines 3 mts wide	02-08-001	7.89	Rmt	1262.40
2	1 No./ 12 Months	Wages for watch and ward from April to March @ Rs.8684/20 Ha-1 No@ Rs.334/- per day for 26 days in a month	02-08-005	334.00	Ha/PM	4008.00
3	1111 Nos.	One weeding cum soil working	02-08-002	848.29	100 Nos.	9424.50
4	880 Nos.	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3 rd height.	02-08-006	160.6	100 Nos	1412.84
5	1 Ha.	Enumeration of survivals, pest control, labour amenities, sharpening of tools, etc.	02-08-007	164.92	Ha	164.92
6	LS	Contingencies				227.00
Rate for 2021-22						16500.00
Add 10% extra rate for 2022-23						18200.00
Add 10% extra rate for 2023-24						20000.00
Add 10% extra rate for 2024-25						22000.00
Add 10% extra rate for 2025-26						24200.00
Add 10% extra rate for 2026-27						26600.00
Add 10% extra rate for 2027-28						29300.00
Add 10% extra rate for 2028-29						32200.00
Add 10% extra rate for 2029-30						35400.00
Add 10% extra rate for 2030-31						38900.00
Add 10% extra rate for 2031-32						42800.00
Add 10% extra rate for 2032-33						47100.00
Add 10% extra rate for 2033-34						51800.00
Add 10% extra rate for 2034-35						57000.00


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Line Estimate

Data Sheet for Construction of RCC Boundary Pillar

Each No.

Sl No.	Description of work	Nos	Measurements in Mts			Quantity	Rate / Per	Amount
			Length	Breadth	Height			
1	2	3	4	5	6	7	8	9
1	Clearing of juliflora (Prosopis) Jungle including uprooting and removing of Juliflora stumps	1 x 1	3.00	3.00	--	6.000	7.42	44.52
						Sqmt	per Sqmt	
2	Earth work excavation in Hard gravelly soils	1 x 1	1.20	1.20	0.45	0.648	307.86	199.49
						Cum	Cum	
3	CC (1:2:4) using 20 mm metal							
	a) Below GL	1 x 1	1.20	1.20	0.45	0.648		
	b) Above GL	1 x 1	(0.45 + 0.3)/2	(0.45 + 0.3)/2	1.20	0.169		
						0.817	7078.67	5783.27
						Cum	Cum	
4	Plastering with CM (1:4)	1 x 4	1.20	(0.45 + 0.3)/2	--	1.800	5962.95	1073.33
						Sqmt	10 Sqmt	
5	White Washing	1 x 4	1.20	(0.45 + 0.3)/2	--	1.800	686.59	123.59
						Sqmt	10 Sqmt	
6	Cost of Steel and its fabrication charges etc. complete	1 x 1	--	--	--	2.900	122.00	353.80
						KGs	Per KG	
4	Contingencies							2422.00
						TOTAL		10000.00
								Per No
Unit Rate for 2021-22								11000.00
Add 10% extra rate for 2022-23								12100.00
Add 10% extra rate for 2023-24								13300.00
Add 10% extra rate for 2024-25								14600.00

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