

Statement showing the C.A Scheme proposals over an extent of 38 Ha in Degraded Forest area located in Compt.no.26 Koppukonda RF, Vinukonda Range of Guntur Division in line of diversion of Forest land for laying of 765 KV DC Warangal - Chilakaluripeta Transmission Line implemented by Warora- Kurnool Transmission line

Sl. No		Name of the work		Unit cost		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		(R in Lakhs)	
		Per	Rate	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Actual	
I		Plantations (SMM Method)																													
1		1333	10.50	50654	5.321																							50654	5.321		
2		Nos																										38	13.245		
3		1 Ha	34855.69	38	13.245																							38	23.935		
4		1 Ha	62987.76					38	23.935																				38	23.935	
5		1333	4.33					50654	2.194																			50654	2.194		
6		Nos																													
7		278	11.55					10564	1.221																			10564	1.221		
8		Nos																													
9		1 Ha	32428.48					38	12.323																			38	12.323		
10		278	5.24					10564	0.554																			10564	0.554		
11		Nos																													
12		1 Ha	27342.00							38	10.390																	38	10.390		
13		1 Ha	30077.00											38	11.429													38	11.429		
14		1 Ha	13055.00													38	4.961											38	4.961		
15		1 Ha	4599.00															38	1.748									38	1.748		
16		1 Ha	5059.00																												
17		1 Ha	5565.00																												
18		1 Ha	6122.00																												
19		1 Ha	6734.00																												
20		1 Ha	7407.00																												
21		Sub-Total>			18.566		27.350		12.877		10.390		11.429		4.961		1.748		2.115		2.326		38	2.559		38	2.815		38	2.815	99.057
22	II	Chain Link Fencing																													
23		Erection of Chain link fencing around the plantations in degraded RF area of Total area for CA (38 Ha) 3000 Rmt																													
24	1	1 Rmt	1339.87																												
25	2	Salvaging of old chain link. for 10 years																													
26		Sub-Total>																													
27		Sub Total of Plantation cost																													
28	III	SMC works																													
29	1	Ls	2150800.13																												
30		Sub-Total>																													
31	IV	Monitoring and Evaluation																													
32		Ls	716933.38																												
33		Sub-Total>																													
34	V	Administrative Cost @ 10% of the total planting Cost																													
35		Ls	1433866.75																												
36	VI	For rounded																													
37		Sub-Total>																													
38		Grand Total>>																													

D. P. P. Raju
Forest Range Officer
Vinukonda

DIVISIONAL FOREST OFFICER
GUNTUR.

Statement showing the C.A Scheme proposals over an extent of 38 Ha in Degraded Forest area located in Compt.no.26 Koppukonda RF, Vinukonda Range of Guntur Division in lie of diversion of Forest land for laying of 765 KV DC Warangal - Chilakaluripeta Transimission Line implemented by Warora-Kurnool Transmission line

Sl. No.	Name of the work	Quantity in Ha/ Rmt	Unit Cost	Amount (in Lakhs)	Remarks
I	Plantations				
1	Raising of Primary beds & Raisng of nursery	50654	10.50	5.321	
2	Advance operations	38	34855.69	13.245	
3	Raising of plantations	38	62987.76	23.935	
4	Maintenance of Nursery (for planting & replacement casulities in raising year)	50654	4.33	2.194	
5	Raising of nursery for Casualities in 1st year maint.	10564	11.55	1.221	
6	1st year maintenance	38	32428.48	12.323	
7	Maintenance of Nursery (for Casualities in 1st year maint.)	10564	5.24	0.554	
8	2nd year maintenance	38	27342.00	10.390	
9	3rd year maintenance	38	30077.00	11.429	
10	4th year maintenance	38	13055.00	4.961	
11	5th year maintenance	38	4599.00	1.748	
12	6th year maintenance	38	5059.00	1.922	
13	7th year maintenance	38	5565.00	2.115	
14	8th year maintenance	38	6122.00	2.326	
15	9th year maintenance	38	6734.00	2.559	
16	10th year maintenance	38	7407.00	2.815	
	Sub Total			99.057	
II	Chain Link Fencing				
1	Errection of Chain link fencing around the plantations	3000	1339.87	40.196	
2	Salvaging of old chain link. for 10 years	38	--	4.133	
	Sub Total			44.329	
	Total cost of Plantation			143.387	
III	SMC Works (15%of the total planting Cost)	38	--	21.508	
	Sub Total			21.508	
IV	Monitoring and Evaluation 5% of the total planting Cost	38	--	7.169	
V	Administrative Cost @ 10% of the total planting Cost)	38	--	14.339	
	For rounded	Ls		0.097	
	Grand Total:			186.500	

D. P. Rasi
Forest Range Officer
Vinukonda

COUNTER SIGNED
[Signature]
**DIVISIONAL FOREST OFFICER
GUNTUR**

Data Estimate for Raising of Primary beds 1 Nos (1 Ha) Nursery unit cost for 1.00 Ha Degraded CA area at Guntur (T) Division (As per FSR 2018-19)						
Sl. No	Qty.	Details of work	FSR item No.	Per	Rate	Amount
	(1)	(2)	(3)	(4)	(5)	(7)
		Raising of Primary beds of size 1X1X0.3 m for raising Eucalyptus, Bamboo and other misc. species				
1	1100 Nos.	Preparation of Old site - by clearing the site by dismantling old beds.	01-02-002	1.34	Bed/ 333 Nos.	4.43
2	1100 Nos.	Digging soil to a depth of 30 cm	01-02-003	39.79	Bed/	131.44
3	1100 Nos.	Cost of sandy soil 50% of dugged quantity and transportation taken from private lands, with 5 kms lead loading and unloading charges by manual means (Sandy soil and FYM. in 5:1 proportion) 0.125 cum per bed	01-02-004	32.63	Bed/ 333 Nos.	107.79
4	1100 Nos.	Cost and transport of Farm yard manure (Sandy soil and FYM. in 5:1 proportion) 0.025 cum per bed	01-02-005 & 01.03.005	991.54	Cum	81.88
5	1100 Nos.	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	11.12	Bed/ 333 Nos.	36.73
6	1100 Nos/ 6.30 Kgs	Cost of seed Nallamaddi @ Rs. 99.44/Kg. 175 seedlings per Kg seed	01-02-007	99.44	Kg	626.47
7	1100 Nos.	Sowing of seed and covering the bed with hay including cost and conveyance to a thickness of 2.5 cm.	01-02-008	12.64	Bed/ 333 Nos.	41.75
8	1100 Nos./ 2 months	Watering the primary nursery beds with rose water cans for a maximum period of 2 months. Note: Watering the primary beds beyond 2 months especially in the case of North-East monsoon areas prior approval of the CF concerned is required.	01-02-009	14.19	Bed/ 333 Nos/ month	93.75
9	1100 Nos./ 2 times	Weeding the primary beds maximum of 2 times Note: Weeding the primary beds more than 2 times prior approval of the CF concerned is required.	01-02-010	2.12	Bed/ 333 Nos/ time	14.01
10	1100 Nos.	Contingences such as cost of pipes, nursery board, electricity bills etc - 10% of estimate cost	01-05-038			114.00
		Sub Total				1252.25
		Raising of Nursery				
		Raising of Bag plant nursery in Polythene bags of different sizes and arranging in beds (Bed size 10Mx1M)				
11	1100 Nos.	Site preparation for old site - Clearing of growth, weeds, grass etc.	01-05-002	13.60	Bed/ 1100	13.60
		Cost and transport of ingredients for Potting mixture Red Soil and Clayey Soil in 2:1 ratio as per CSSR 2011-12				
12	1100 Nos.	15 cm X 30 cm (6" X 12") 2.15 cum.	01-05-005	562.07	1000	618.28
		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 tips and arranging in beds.				
13	1100 Nos.	15 cm X 30 cm (6" X 12") 2.15 cum.	01-05-011	1360.94	1000	1497.03
14	1150 Nos./ 10 Kgs	Cost of polythene bags (@ 115 Nos./Kg) (Approved rate during 2017-18)	01-05-015	165.00	Kg	1650.00
15	1100 Nos.	Picking out seedlings from primary beds and transplanting in bags.	01-05-016	144.14	1000	158.55
16	1000 Nos./ 5 months	Watering the plants twice a day for 10 m X 1 m size bed (2600-4"X7" bags; 1700-5"X9" bags ; 1100-6"X12" bags and 800-8"X12" bags)	01-05-020	333.03	Bed/ 1100/ month	1513.77
17	1000 Nos./ 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)	01-05-022	51.36	Bed/ 1100/ weeding	93.38
18	1000 Nos./ 1 time	Shifting and grading and re-arranging in beds for 10mx1m size bed (6"X12" bags-1100Nos) only once.	01.05.024	283.19	Bed/ 1100/ shifting	257.45
19		Cost of chemicals, insecticides, pesticides etc.,	01-05-025	Actuals		200.00
20	1000 Nos./	Cost of cow dung slurry	01-05-033	As per actuals		200.00

Sl. No	Qty.	Details of work	FSR item No.	Per	Rate	Amount
	(1)	(2)	(3)	(4)	(5)	(7)
21	1000 Nos./ 1 time	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 maximum of 3 times. (Once in raising and 2 times in maintenance) Note: Watering should not be done 12 hours before and after application of cow dung slurry.	01-05-034	213.33	1000/ time	213.33
22	1000 Nos./ 25 Rmt	Brush wood fencing around the Nursery Site: Thorny fencing with sturdy thorn material of 10 cm. girth (at the butt end) and fixing in crow bar holes and strengthening with stone packing. The average height of fence should be 1.5m and fencing material should be fixed in 2 rows (staggered) at 30cm. apart. The fence should be tightened horizontally by tying with thorny reapers on both sides. With specific permission of DFO.	01.05.039	28.94	Rmt	723.50
23	1000 Nos./ 5 months	Cost of Protection. 1 watcher is allowed upto 100 beds nursery under all the schemes and more than 100 beds 1 more watcher is allowed (Average 100 beds one. protection watcher) (26 days/month).	01-05-041	306.00	Per day	397.80
24	1000 Nos	Contingencies/ Cost of pipes/ Nursery board/ Nursery implements/ Electricity bill/ Running and maintenance charges of oil engine (Bills to be verified and certified by the ACF/DFO) etc.	01-05-038	Subject to maximum of 10% of estimate cost during raising year.		760.00
		Sub Total Bag nursery				8296.70
		Grand Total				9548.94

Rate for 2018-19 Rs. 9549 Per 1000 9.549 each
 Unit cost per 1000 nos 9549
 Add 10% for 2019-20 10504 10.50 Each for Raising of plant.
 Add 10% for 2020-21 11554 11.55 Each for 1st year maint. plant.

D. P. Raju
 Forest Range Officer
 Vinukonda

COUNTER SIGNED

 DIVISIONAL FOREST OFFICER
 GUNTUR

Data Estimate for Advance operation for 1.00 Ha Degraded CA Area (3mX3m especement) (FSR 2018-19)						
Sl. No	Qty.	Details of work	FSR Item No.	Rate	Unit	Amount
(1)	(2)	(3)	(4)	(5)	(7)	
		Advance operations (Preplanting operations)				
1	1	Survey with GPS (Only staff to carry out: One manday is allowed for assistance) Wage rate fixed by the Dist. Collector per day	02-05-001	306.00	Day	306.00
		Preparation of site for planting by clearing thorny unsaleable, unusable jungle growth, creepers, bushes etc., spreading the cut material allover the site and burning the same.				
2	0.50	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth)	02-05-003	2800.21	Ha	1400.11
3	0.50	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth)	02-05-004	5610.97	Ha	2805.49
4	150	Formation of sector lines/ inspection paths/ fire lines of a width of 3m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level. Applicable for plantations other than SMM	02-05-006	5.96	Rmt	894.00
		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.				
5	0.50	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth)	02-05-008	12547.39	Ha	6273.70
6	0.50	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth)	02-05-009	16312.25	Ha	8156.13
		Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site.				
7	0.50	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth)	02-05-012	8283.37	Ha	4141.69
8	0.50	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth)	02-05-013	9658.50	Ha	4829.25
9		Contingencies				2880.65
		Total Cost				31687.00

Unit cost for 2018-19 31687.00 Per Ha
Add 10% for 2019-20 34855.69 per Ha

G. P. Raju
Forest Range Officer
Vinukonda

COUNTER SIGNED

[Signature]
**DIVISIONAL FOREST OFFICER
GUNTUR**

UNIT COST FOR MAINTENANCE OF NTHW 6"X12" BAG PLANTS NURSERY (FSR 2018-19)

Sl. no.	Qty	Item of work	FSR Item no.	Rate	Per bag	Amount in Rs.
1	2	3	4	5	6	7
		Maint. of bag nursery from April to July				
1	1000 Nos./ 4 months	Watering the plants for 10 m X 1 m size bed (2600-4"X7" bags; 1700-5"X9" bags ; 1100-6"X12" bags and 800-8"X12" bags) Note: Any watering beyond July in case of South-West monsoon and beyond October in case of North-East monsoon is to be allowed with prior permission of concerned CF.	01-05-028	333.03	Bed/ 1100/ month	1211.02
2	1000 Nos./ 4 times	Weeding maximum four times during maintenance year for 10mx1m size bed (2600-4"X7" bags; 1700-5"X9" bags; 1100-6"X12" bags and 800-8"X12" bags)	01-05-030	51.36	Bed/ 1100/ weeding	186.76
3	1000 Nos./ 2 times	Shifting and Grading and re-arranging in beds for 10 m X1 m size, bed maximum two shifts (6"X12" bags-1100Nos) Note: More than 2 shifts is to be allowed with the prior permission of the concerned CF.	01-05-032	283.19	Bed/ 1100/ shifting	514.89
4	1000 Nos./ 2 times	Cost of cow dung slurry	01-05-033	As per actuals		500.00
5	1000 Nos./ 2 times	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 maximum of 3 times. (Once in raising and 2 times in maint.) Note: Watering should not be done 12 hours before and after application of cow dung slurry.	01-05-034	213.33	1000/ time	426.66
6	1000 Nos./ 25 Rmt	Maintenance of brushwood fencing	01-05-040	9.66	Rmt	241.50
7	1000 Nos./ 4 months	Cost of Protection. 1 watcher is allowed upto 100 beds nursery under all the schemes and more than 100 beds 1 more watcher is allowed (As per Collector wage rates) (Average 100 beds one protection watcher) (26 days/month).	01-05-041	306.00	Per day	318.24
8	1000 Nos.	Contingencies/ Cost of pipes/ Nursery board/ Nursery implements/ Electricity bill/ Running and maintenance charges of oil engine (Bills to be verified and certified by the ACF/DFO) etc.	01-05-038	Subject to maximum of 5% of the estimate cost during maint. year		180.93
		Total :				3580.00

FOR NTHWS PLANTATIONS

Unit cost per 1000 Nos.	3580.00	
Unit cost per seedling	3.580	
for 2017-18 Unit cost per Ha @1000 nos	3580.00	For Raising
Add 10% for 2018-19	3938.00	
Add 10% for 2019-20	4331.80	4.33 Maint. in raising year

For Replacement Casualties in 1st year Maint@ 278 Nos /Ha) **3.58** **..@25% casualty**

Add 10% for 2018-19	3.94	
Add 10% for 2019-20	4.33	
Add 10% for 2020-21	4.76	
Add 10% for 2021-22	5.24	each for Repl. in 1st year

S. P. Raju
Forest Range Officer
Vinukonda

COUNTER SIGNED

[Signature]
DIVISIONAL FOREST OFFICER
GUNTUR

DAT FOR 1 HA FOR RAISING OF PLANTATIONS IN OTHER THEN SANDY SOILS
(As per FSR 2018-19)

Sl. No.	Qty.	Description of work with detailed specifications	FSR Code	Rate in Rs.	Per/ Unit	Amount
		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)				
1	1.00	Hard /Gravelly Soils	02-05-020	5479.29	Ha	5479.29
2	1.00	Removing congestion of root suckers and other uprooted material hindering the effective ploughing (For non-tilled areas only)	02-05-024	939.27	Ha	939.27
		Alignment & Staking				
3	1111	Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	02-06-003	81.60	100 Nos	906.58
4	1111	Cost of 0.45M Stake preparation and transportation to site.	02-06-005	53.13	100 Nos	590.27
		Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead				
5	1111	15X30cm (6"X12") bag plants	02-06-009	139.63	100 Nos	1551.29
		Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading beyond 5 Km - extra for every each Km average lead 45 Km				
6	1111	15 X 30cm (6"X12") bag plants- For 45 Kms x 4.9 = 220.50 /-	02-06-014	220.50	100 nos/ km	2449.76
		Internal transport of bag plants/root trainers to planting points on head loads.				
7	1111	15X30cm (6"X12") bag plants	02-06-019	89.57	100 Nos	995.12
		Digging of pits in ploughed areas				
8	1111	Digging of 45 cm. cube pits	02-06-027	8.97	Each	9965.67
		Application of Fertilizers				
9		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP after planting for 30 cm ³ & 45 cm ³ pits).	02-06-031		As per actuals	
	56.00	a) Cost of SSP @ 50 Grams/Pit - 56 Kgs/Ha		15.00	Kg	840.00
	22.00	b) Cost of DAP @ 20 Grams/Pit - 22 Kgs/Ha		30.00	Kg	660.00
10	1111	Application of fertilizer after planting by making 3 holes of 10 cms depth with crow bar . 10 cms away from plant and putting fertilizers and closing	02-06-032	38.32	100 Nos	425.74
		Planting bag plants				
11	1111	45cmX45cmX45 cm pits	02-06-034	426.63	100 Nos	4739.86
12		Replacement of Casualties 20% during raising year	02-06-036			
	222	a) Reopening of pits (Rs.8.97/2 = 4.49 each pit)		4.49	Each	995.67
	222	b) Transport of bag plants over 50 Km (upto 0- 5km=139.63+ beyond 5km and upto 6-50 km =220.50)		360.13	100 Nos	799.49
	222	c) Internal transport		89.57	100 Nos	198.85
	222	d) Planting		426.63	100 Nos	947.12
		Weeding & Soil working				
13	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravelly soils.	02-06-041	639.96	100 Nos	7109.96
		Inter ploughing				
14	1.00	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravelly soils	02-06-045	3652.32	Ha	3652.32
15	150	Creation of sectorlines/inspection paths/ fire lines 3 mts.wide around the plantation	02-06-049	5.96	Rmt	894.00
16	1 No/ 8 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day.	02-06-053	306.00	Day	3182.00
17		Contingencies for enumeration of survivals, fixing 10th line stones, cost of numbering with paint/ white washing, sector stones, plantation boards, journals etc.	02-06-056	As per actuals subject to maximum of 10% of estimate cost during raising		4733.76
		Total cost				52056.00

Unit cost for 2018-19
Add 10% for 2019-20
Add 10% for 2020-21

52056.00
57261.60
62987.76 Ha

COUNTER SIGNED

D. P. Rasi
Forest Range Officer
Vinukonda

**DIVISIONAL FOREST OFFICER
GUNTUR**

Data Estimate for 1st year maintenance of 1.00 Ha.Degraded CA area (FSR 2018-19)						
Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
	(1)	(2)	(3)	(4)	(5)	(6)
		1st YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1		Replacement of Casualties 25% in 1st year maint.	02-07-001			
	278	a) Reopening of pits		8.97	Each	2493.66
	278	b) Transport of bag plants over 50 Km		360.13	100 Nos	1001.16
	278	c) Internal transport		89.57	100 Nos	249.00
	278	d) Planting		426.63	100 Nos	1186.03
		Application of Fertilizers				
2		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP for replacement of casualties).	02-07-002		As per actuals	
3	14.00	a) Cost of SSP @ 50 Grams/Pit - 14 Kgs/Ha		15.00	Kg	210.00
4	6.00	a) Cost of DAP @ 20 Grams/Pit - 6 Kgs/Ha		30.00	Kg	180.00
5	278	Application of fertilizer after planting by making 3 holes of 10 cms depth with crow bar. 10 cms away from plant and putting fertilizers and closing	02-07-003	38.32	100 Nos	106.53
		Inter ploughing				
6	1.00	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-07-007	3652.32	Ha	3652.32
7	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-07-011	639.96	100 Nos	7109.96
8	150	Creation of Fire lines 3 mts wide	02-07-014	5.96	Rmt	894.00
9	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-07-015	121.13	100 Nos	1345.75
10	1 No./ 12 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02-07-017	306.00	Day	4773.60
11		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-07-018	As per actuals subject to maximum of 5% of estimate cost during maint. year		1161.98
		Total Cost				24364.00

Unit cost for 2018-19 24364.00
Add 10% for 2019-20 26800.40
Add 10% for 2020-21 29480.44
Add 10% for 2021-22 32428.48 Ha

D. P. Rao
Forest Range Officer
Vinukonda

COUNTER SIGNED

DIVISIONAL FOREST OFFICER
GUNTUR

Data Estimate for 2nd year maintenance of 1.0 Ha. Degraded CA area (FSR 2018-19)

Sl.No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		2nd YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS/SEMI MECHANICAL METHOD:	02-08 :			
1	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-08-004	639.96	100 Nos	7109.96
		Inter ploughing				
2	1.00	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-08-008	3652.32	Ha	3652.32
3	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-08-012	5.96	Rmt	894.00
4	1 No./ 12 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02-08-014	306.00	Day	4773.60
5	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-08-015	121.13	100 Nos	1345.75
6		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-08-016	As per actuals subject to maximum of 5% of estimate cost during maint. year		899.37
		Total Cost				18675.00

Unit Cost for 2018-19 18675.00
 Add 10% for 2019-20 20542.50
 Add 10% for 2020-21 22596.75
 Add 10% for 2021-22 24856.00
 Add 10% for 2022-23 27342.00

Ha

D. P. Rasi
 Forest Range Officer
 Vinukonda

COUNTER SIGNED

DIVISIONAL FOREST OFFICER
GUNTUR

Data Estimate for 3rd year maintenance of 1.0 Ha. Degraded CA Area (FSR 2017-18)

Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
	(1)	(2)	(3)	(4)		(5)
1	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-09-002	639.96	100 Nos	7109.96
		Inter ploughing				
2	1.00	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-09-006	3652.32	Ha	3652.32
3	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-09-008	5.96	Rmt	894.00
4	1 No./ 12 Months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02.09.009	306.00	Day	4773.60
5	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-09-010	121.13	100 Nos	1345.75
6		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-09-012	As per actuals subject to maximum of 5% of estimate cost during maint. year		899.37
		Total Cost				18675.00

Unit cost for 2018-19 18675.00
Add 10% for 2019-20 20542.50
Add 10% for 2020-21 22597.00
Add 10% for 2021-22 24857.00
Add 10% for 2022-23 27343.00
Add 10% for 2023-24 **30077.00 Ha**

D. P. Raju
Forest Range Officer
Vinukonda

COUNTER SIGNED

DIVISIONAL FOREST OFFICER
GUNTUR

Data Estimate for 4th year Year Maintenance of 1.0 Ha. Degraded CA area (FSR 2018-19)

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
	(1)	(2)	(3)	(4)	(5)	(6)
		4th YEAR YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-10-001	5.96	Rmt	894.00
2	1 No./ 12 Months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist. Collector per day	02-07-017	306.00	Day	4773.60
3	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-10-003	121.13	100 Nos	1345.75
4		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-10-004	As per actuals subject to maximum of 5% of estimate cost during maint. year		354.65
		Total Cost				7368.00

Unit cost for 2018-19	7368.00	Ha	
Add 10% for 2019-20	8105.00	Ha	
Add 10% for 2020-21	8916.00	Ha	
Add 10% for 2021-22	9808.00	Ha	
Add 10% for 2022-23	10789.00	Ha	
Add 10% for 2023-24	11868.00	Ha	
Add 10% for 2024-25	13055.00	Ha	4th year

D. P. Raju
Forest Range Officer
Vinukonda

COUNTER SIGNED

[Signature]
**ADDITIONAL FOREST OFFICER
GUNTUR**

Data Estimate for 5th year to 10 th Year Maintenance of 1.0 Ha. Degraded CA area (FSR 2018-19)

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
	(1)	(2)	(3)	(4)	(5)	(6)
		5th YEAR to 10 Th YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-11-001	5.96	Rmt	894.00
2	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-11-002	121.13	100 Nos	1345.75
3		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-11-003	As per actuals subject to maximum of 5% of estimate cost during maint. year		119.25
		Total Cost				2359.00

Unit cost for 2018-19	2359.00	Ha	
Add 10% for 2019-20	2595.00	Ha	
Add 10% for 2020-21	2855.00	Ha	
Add 10% for 2021-22	3141.00	Ha	
Add 10% for 2022-23	3455.00	Ha	
Add 10% for 2023-24	3801.00	Ha	
Add 10% for 2024-25	4181.00	Ha	
Add 10% for 2025-26	4599.00	Ha	5th year
Add 10% for 2026-27	5059.00	Ha	6th year
Add 10% for 2027-28	5565.00	Ha	7th year
Add 10% for 2028-29	6122.00	Ha	8th year
Add 10% for 2029-30	6734.00	Ha	9th year
Add 10% for 2030-31	7407.00	Ha	10th year

G. P. Raju
Forest Range Officer
Vinukonda

COUNTER SIGNED

[Signature]
**DIVISIONAL FOREST OFFICER
GUNTUR**

ABSTRACT ESTIMATE

For Erection of Chain link fencing around the degraded C.A area over an extent of 38 Ha located in Compt.no.26 Koppukonda RF, Vinukonda Range of Guntur Division in lieu of diversion of Forest land for laying of 765 KV DC Warangal - Chilakaluripeta Transmission Line implemented by Warora-Kurnool Transmission line

Sl. No	Qty.	Units	Description of work	Rate	Per	Amount
1	2	3	4	5	6	7
1	112.45	Cum	Earth work excavation for foundation and depositing on bank for all lifts with an initial lead of 10m including all operational, incidental, labour charges such as shorting, sheeting, planking, strutting etc., complete for finished item of work including seigniorage excluding dewatering charges etc as per SS -20b (APSS 308)	153.017	Cum	17206
2	112.45	Cum	Plain Cement concrete (M 15) Nominal Mix using 20mm grades metal including cost of mixing, laying, cost and conveyance of all labour and materials at site of work complete	5780.308	Cum	649986
3	3000	Rmt	Providing 1.50 metre high fencing with angle iron posts 50 mm x 50 mm x 6 mm at 3 metre center to center with 0.45 metre embedded in M15 grade cement concrete, corner, end and every 10th post to be strutted, provided with Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh or 75 mm x 75 mm mesh and fixed to iron posts by flat iron 50 x 5 mm and bolts etc. up to 1.50mts a complete in all respects. (MORTH Suggestive)	757.450	Rmt	2272351
			Sub total			2939543
			GST @ 12% of estimate cost			352745
			Labour Cess @ 1% of estimate cost			29395
			Contingencies			316
			Total cost			3322000

Unit cost for 2018-19 3322000
 Add 10% for 2019-20 3654200
 Add 10% for 2020-21 4019620
 Rate per 1 Rmt 1339.87 Rmt

S. P. Raju
 Forest Range Officer
 Vinukonda

COUNTER SIGNED

[Signature]
DIVISIONAL FOREST OFFICER
GUNTUR

DETAILED ESTIMATE

For Erection of Chain link fencing around the degraded C.A area over an extent of 38 Ha located in Compt.no.26 Koppukonda RF, Vinukonda Range of Guntur Division in lieu of diversion of Forest land for laying of 765 KV DC Warangal - Chilakaluripeta Transimission Line implemented by Warora- Kurnool Transmission line

Sl. No	Description of work	Nos	Measurements			Quantity	
			L	B	D		
1	2	3	4	5	6	7	
1	Earth work excavation for foundation and depositing on bank for all lifts with an initial lead of 10m including all operational, incidental, labour charges such as shorting, sheeting, planking, strutting etc., complete for finished item of work including seigniorage excluding dewatering charges etc as per SS -20b (APSS 308)						
	For a Length of = 3000 RMT as per sketch	3000					
	For Fencing Angels @ Every 3mtr Intravals	1000	0.45	0.45	0.45	91.13	
	Support Angels @ Every 10th Angle (1000/10x2= 200)	200	0.45	0.45	0.45	18.23	
	Support Angulars in corners (17 Corners i.e., 34 Angulars)	34	0.45	0.45	0.45	3.10	
	Total Qty					112.45	Cum
2	Plain Cement concrete (M 15) Nominal Mix using 20mm grades metal including cost of mixing, laying, cost and conveyance of all labour and materials at site of work complete						
	For a Length of = 3000 RMT as per sketch						
	For Fencing Angels @ Every 3mtr Intravals	1000	0.45	0.45	0.45	91.13	
	Support Angels @ Every 10th Angle	200	0.45	0.45	0.45	18.23	
	Support Angulars in corners (17 Corners i.e., 34 Angulars)	34	0.45	0.45	0.45	3.10	
	Total Qty					112.45	Cum
3	Providing 1.50 metre high fencing (with angle iron posts 50 mm x 50 mm x 6 mm at 3 metre center to center with 0.60 metre embedded in M15 grade cement concrete, corner, end and every 10th post to be strutted, provided with Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh or 75 mm x 75 mm mesh and fixed to iron posts by flat iron 50 x 5 mm and bolts etc. up to 1.50mts complete in all respects. (MORTH Suggestive)	1	3000	-	-	3000	Rmt

D.P. Ravi
Forest Range Officer
Vinukonda

COUNTER SIGNED

[Signature]
**DIVISIONAL FOREST OFFICER
GUNTUR**

DATA SHEET -SSR 2016-17

Item Code	Description of Item	Per	Unit	Rate	Amount
BLDCSTN-2-1	Excavation for Structures				
	Earth work excavation for foundation and depositing on bank for all lifts with an initial lead of 10m including all operational, incidental, labour charges such as shorting, sheeting, planking, strutting etc., complete for finished item of work including seigniorage excluding dewatering charges etc as per SS -20b (APSS 308)	BLD-CSTN-2-1			
	Ordinary soil				
	Manual Means Upto 3 m depth				
	Unit = cum				
	Taking output = 10 cum				
	a) Labour				
	Mate	day	-		
	Mazdoor (Unskilled)	day	3.64	370.00	1346.80
	b&c) Overheads & Contractors Profit				183.37
	Cost for 10 cum = a+b+c				1530.17
	Rate per cum = (a+b+c)/10				153.02
BLD-CSTN-3-12	Plain Cement Concrete (M 15) Nominal Mix using 20mm grades metal including cost of mixing, laying, cost and conveyance of all labour and materials at site of work complete	BLD-CSTN-3-12			
	using 20mm metal using concrete mixer				
	Unit : 1cum				
	A. MATERIALS:				
	Cement	Kg	275.00	5.00	1375.00
BLD-CSTN-3-12	Coarse aggregate 20mm	cum	0.90	2225.78	2003.20
	Fine aggregate (Sand)	cum	0.48	1217.34	584.32
	Water (including for curing) (Urbun)	kl	1.20	77.00	92.40
	B. MACHINERY				0.00
	Concrete Mixer 10/7cft(0.2/0.8 Cum) capacity	hour	1.00	471.90	471.90
	C. LABOUR:				0.00
	Mason 1 st class	day	0.10	465.00	46.50
	Mazdoor (unskilled)	day	1.39	370.00	514.30
	Sub total				5087.63
	Overheads & Contractors Profit		13.615%		692.68
	Grand Total				5780.31
RBR-TSRA-7	Painting on Steel Surfaces				
	Providing and applying two coats of ready mix Enamel paint including primer coat of approved brand on steel surface after through cleaning of surface to give an even shade as per drawing and Technical Specification Clause 1701MORD				
	Unit = sqm				
	Taking output = 10 sqm				
	a) Labour				
	Painter CL-1	day	0.00	535.00	0.00
	Painter (2nd Class)	day	0.60	420.00	252.00
	Mazdoor (Unskilled)	day	0.40	370.00	148.00
	b) Material				
	Red-oxide Primer as per specifications (Item No. BMT-J-03)	litre	0.60	110.00	66.00
	Paint ready mixed approved brand (Item No. BMT-J-30)	litre	1.25	163.00	203.75
	Sub total				669.75
	Overheads & Contractors Profit		13.615%		91.19
	Cost for 10 sqm = a+b+c+d				760.94
	Rate per sqm = (a+b+c+d)/10				76.094

RBR-TSRA-17	Fencing With Hot Dipped Galvanised Iron Chain Link Mesh			
	Providing 1.50 metre high fencing with angle iron posts 50 mm x 50 mm x 6 mm at 3 metre center to center with 0.45 metre embedded in M15 grade cement concrete, corner, end and every 10th post to be struted, provided with Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh or 75 mm x 75 mm mesh and fixed to iron posts by flat iron 50 x 5 mm complete in all respects. (MORTH Suggestive)			
RBR-TSRA-17	Unit = Running metre			
	Taking output = 30 m			
	a) Labour			
	Mate	day	-	
	Welder	day	1.00	465.00
	Mazdoor	day	2.12	370.00
	b) Material			
	i) Angle iron for posts 50 x 50 x 6 mm (Proportionate weight for 1.50Mts).	kg	105.40	40.00
	ii) Runner flat 50 x 5 mm (Proportionate weight for 1.50Mts).	kg	29.97	40.00
	iii) Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh 8 gauge or 75 mm x 75 mm mesh (30 mtr X 1.5 Mtr) (Item No. BMT-F-22,)	Sqm	45.00	273.00
	Add 2.5 percent of cost of material for drilling holes in angles, flats, splitting angle at bottom, nuts and bolts and welded consumables			442.50
	d) Painting			
	Painting two coats including priming	sqm	8.00	76.09
	Sub total			20000.45
	Overheads & Contractors Profit		13.615%	2723.06
	Cost for 30 metre = a+b+c+d+e+f			22723.51
	Rate per metre = (a+b+c+d+e+f)/30			757.45

P. P. Raju
Forest Range Officer
Vinukonda

COUNTER SIGNED
[Signature]
DIVISIONAL FOREST OFFICER
GUNTUR

LEAD STATEMENT- 2016-17

Sl. No.	Description	SOR Item Code	Source of Material	Lead in KM	Initial Cost (Excluding Seigniorage Charges)	Conveyance Charges (Excluding Stacking Charges)	Loading	Un-Loading Charges	Total Conveyance	Conveyance After Deduct Overheads & Contractor Profit @ 13.615% (10-13.615%)	Add Seigniorage	Total (6+11+12)	Unit Per
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Cost of Cement	GO	At site	At site	50000.00					C.Memo No. 146/T4/AE-2/Cement & Steel/2017, dt: 23.3.2017 of Engineer-in-Chief, Public Health Department, Tadepalli, Guntur.			
2	Cost of Sand (Unscreened) G.o.Rt.No.125 (Water Resources (WRG-GRC) Dept, dt: 29.12.2016	GO	Amaravathi	120	95.00	1211.50	19.900	9.95	1241.35	1072.34	50.00	1217.34	1 Cum
3	Cost of 20 mm Metal	M-53	Perecherla	90	1303.00	921.40	40.00	20.00	981.40	847.78	75.00	2225.78	1 Cum
4	Cost of Mild Steel, Anglers & Channels	GO	Local	At site	40000.00					GoRT No.158 TR&B(R-I), Dept. dt.09.05.2018			
												40000.00	1 MT

P.P. Raju
Forest Range Officer
Vinukonda

COUNTER SIGNED

**DIVISIONAL FOREST OFFICER
GUNTUR**

Data sheet for Maint., of Chain Link Fencing around Degraded CA Area
(FSR 2017-18)

Sl. No	Description of work	Qty.	FSR No.	Rate in Rs.	Per.	Amount (Rs.)
1	3	2	4	5	6	7
1	Salvaging of old chain link. (3000x1.50= 4500 Sq.mt)	4500	05.05.004.	4.33	Sq.mt	19485.00

Unit Cost for 2018-19	19485.00
Add 10% for 2019-20	21433.50
Add 10% for 2020-21	23576.85
Add 10% for 2021-22	25934.54 1st year
Add 10% for 2022-23	28527.99 2nd year
Add 10% for 2023-24	31380.79 3rd year
Add 10% for 2024-25	34518.87 4th year
Add 10% for 2025-26	37970.75 5th year
Add 10% for 2026-27	41767.83 6th year
Add 10% for 2027-28	45944.61 7th year
Add 10% for 2028-29	50539.07 8th year
Add 10% for 2029-30	55592.98 9th year
Add 10% for 2030-31	61152.28 10th year.

D. P. Reddy
Forest Range Officer
Vinukonda

COUNTER SIGNED
[Signature]
DIVISIONAL FOREST OFFICER
GUNTUR