

COMPENSATORY AFFORESTATION SCHEME
FOR (MEDICINAL PLANTATION) ALONG THE
TRANSMISSION LINE OVER AN AREA OF 1.904
Ha IN LIEU OF DIVERSION OF 1.904 Ha OF
FOREST LAND IN BELLAMPALLY DIVISION
FOR CONSTRUCTION OF 11 KV
TRANSMISSION LINE IN FAVOUR OF
TSNPDCL, MANCHERIAL.

Abstract of CA Scheme (Medicinal Plantation) for 1.904 Ha in lieu of Diversion of Forest Land for construction of 11 KV transmission line for the release of 1 No. 96 HP NDS load to Water Grid department for 24 Hrs water supply from existing Tandur MHQ feeder in Tandur Mandal in Bellampally Division.

Sl. No	Item of Work	Phy	Unit Cost 2018-19 (Rs.)	2019 - 20			2020 - 21			2021 - 22			2022 - 23			2023 - 24			2024 - 25		
				Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)
1	2	3	4	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
I	Planting activities (SMM) in 1.904 ha (Espacement 2Mx2M)																				
1	Advance Operations	Ha	19339	1.90	21273	0.405															
2	Raising of Plantation	Ha	247300				1.90	299233	5.697												
3	1st Year Maintenance	Ha	81400							1.90	108343	2.063									
4	2nd Year Maintenance	Ha	24900										1.90	36456	0.694						
5	3rd Year Maintenance	Ha	24900													1.90	40102	0.764			
6	4th Year Maintenance	Ha	24900																1.90	44112	0.840
7	5th Year Maintenance	Ha	4200																		
8	6th Year Maintenance	Ha	3250																		
9	7th Year Maintenance	Ha	4200																		
10	8th Year Maintenance	Ha	3250																		
11	9th Year Maintenance	Ha	4200																		
12	10th Year Maintenance	Ha	3250																		
	Sub total					0.405			5.697			2.063			0.694			0.764			0.840
II	Procurement of bag plants of medicinal species	6900	Rs.20 per plant						1.380												
III	Administrative Cost - 10%					0.041			0.570			0.206			0.069			0.076			0.084
	Total year wise outlay of the project					0.446			6.267			2.269			0.764			0.840			0.924

Abstract of CA Scheme (Medicinal Plantation) for 1.904 Ha in lieu of Diversion of Forest Land for construction of 11 KV transmission line for the release of 1 No. 96 HP NDS load to Water Grid department for 24 Hrs water supply from existing Tandur MHQ feeder in Tandur Mandal in Bellampally Division.

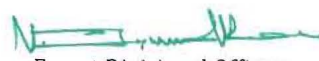
Sl No	Item of Work	Phy	Unit Cost 2018-19 (Rs.)	2025 - 26			2026 - 27			2027 - 28			2028 - 29			2029 - 30			2030 - 31			Grand Total		
				Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy		Fin
1	2	3	4	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	50	51	52
I	Planting activities (SMM) in 1.904 ha (Espacement 2Mx2M)																							
1	Advance Operations	Ha	19339																			1.904		0.405
2	Raising of Plantation	Ha	247300																			1.904		5.697
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4	2nd Year Maintenance	Ha	24900																			1.904		0.694
5	3rd Year Maintenance	Ha	24900																			1.904		0.764
6	4th Year Maintenance	Ha	24900																			1.904		0.840
7	5th Year Maintenance	Ha	4200	1.90	8185	0.156																1.904		0.156
8	6th Year Maintenance	Ha	3250				1.90	6967	0.133													1.904		0.133
9	7th Year Maintenance	Ha	4200							1.90	9903	0.189										1.904		0.189
10	8th Year Maintenance	Ha	3250										1.90	8430	0.161							1.904		0.161
11	9th Year Maintenance	Ha	4200													1.90	11983	0.228				1.904		0.228
12	10th Year Maintenance	Ha	3250																1.90	10200	0.194	1.904		0.194
	Sub total					0.156			0.133			0.189			0.161			0.228			0.194			11.523
II	Procurement of bag plants of medicinal species	6900	Rs.20 per plant																					1.380
III	Administrative Cost - 10%					0.016			0.013			0.019			0.016			0.023			0.019			1.152
	Total year wise outlay of the project					0.171			0.146			0.207			0.177			0.251			0.214			12.675


Forest Divisional Officer,
Bellampally


**Conservator of Forests &
Field Director Project Tiger,
Kawal Tiger Reserve, Nirmal.**


Unit Cost for Advance Operations for Raising of Medicinal Plantations 2m X 2m. (SMM)

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.08.01	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	1	339.66	Plantation	340
02.08.02	Clearing unsalable unwanted jungle growth				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.40	1887.86	Ha	755
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.40	2837.66	Ha	1135
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.20	5686.75	Ha	1137
02.08.03	Uprootal of stumps				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.40	5033.32	Ha	2013
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.40	9741.86	Ha	3897
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.20	12664.86	Ha	2533
02.08.04	Collection and Removal of uprooted stumps of all sizes				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.40	5359.33	Ha	2144
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.40	8504.65	Ha	3402
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.20	9916.46	Ha	1983
	Unit Rate for FSR -2018-19				19339


 Forest Divisional Officer,
 Bellampally

Unit Cost for Raising of Medicinal Plantations 2m X 2m. (SMM)

					Unit Rate per Ha
Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
	Planting Operations during Raising year				
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	985.70	1	986
02.09.01	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. For untilled areas - Hard Soils	1	4961.06	Ha	4961
02.09.04	© Alignment and staking including laying base line for Misc species with espacement 2mX2m (2500 Nos)	2500	62.33	100	1558
02.09.05	Cost of 0.45 M Stake preparation and transportation to site.	2500	51.65	100	1291
	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil				
02.09.06	© Digging of 45 cm cube size pits	2500	9.65	1	24125
01.03.05	Cost and transportation of soil mixtue for filling half of the pit and spreading around the pit - 0.45 cm x 0.45 cm x 0.45 cm = 0.091 cum - 66% of cost	150.150	341.95	cum	51343
02.09.07	Cost and Transportation of medicinal plants including loading and unloading charges to site (including 20% casualties)	3000	25.00	each	75000
02.09.11	b) Cost of SSP, Chloridine dust or Chloropyrphos	2500	3.00	1	7500
02.09.11	a) Application of 50gm of SSP per pit	2500	65.62	100	1641
	Planting Bag Plants				
02.09.13	Planting in 45 cm ³ Pit	2500	396.80	100	9920
02.09.14	Watering to the plants - 4 waterings	2500 x 4 waterings	240.24	100	24024
02.09.15	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality replacement for further maintenance)	50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.			
	Pitting	500	4.83	1	2413
	Planting	500	396.80	100	1984
02.09.16	Cost of DAP @25gm / planting point	2500	3.00	1	7500
02.09.17	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers & closing.	2500	35.62	100	891
02.09.18	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	2500	113.34	100	2834
02.09.19	b) Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec.)	2500	595.23	100	14881
02.09.20	(b) Inter ploughing with heavy duty tractor of 55 HP to a depth of 30 cm in Hard Gravelly Soils during Novermber	1	3091.77	1	3092
02.09.22	Uprootal of Mahaveera Weed	1	3311.47	1	3311
02.09.24	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher 8340 x 9 months = 75060 / 15 Ha = Rs. 7506/- per Ha	1	7506.00	Ha	7506
	Misc Exp				539
	Unit Rate for FSR -2018-19				247300


 Forest Divisional Officer,
 Bellampally


Unit Cost for 1st Year Maintenance of Medicinal Plantation (2 m X 2 m) SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) - 25 % proposed	50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.			
02.09.06	© Digging of 45 cm cube size pits	625	9.650	1	6031
	Cost of plants including transportation	625	25.000	1	15625
02.09.13	Planting in 45 cm ³ Pit	625	396.80	100	2480
02.09.14	Watering to the plants- 4 times	2500 4 waterings	240.24	100	24024
02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	2500	113.34	100	2834
02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	2500	595.23	100	14881
02.10.04	Uprootal of Mahaveera (70% of the area)	1	3311.47	Ha	3311
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	1	2253.79	Ha	2254
02.10.06	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	2500	112.68	100	2817
02.10.09	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher 8340 x 12 = 100080 / 15 = 6672/-	1	6672.00	Ha	6672
	Misc Exp				471
	Unit Rate for 2018 -19				81400


 Forest Divisional Officer,
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Unit Cost for 2nd Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	2500	595.23	100	14881
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Auf)	2500	112.68	100	2817
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher 8340 x 12 = 100080 / 15 = 6672/-	1	6672.00	Ha	6672
	Misc exp				530
	Unit Rate for 2018 -19				24900


 Forest Divisional Officer,
 Bellampally

Unit Cost for 3rd Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	2500	595.23	100	14881
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	2500	112.68	100	2817
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher 8340 x 12 = 100080 / 15 = 6672/-	1	6672.00	Ha	6672
	Misc exp				530.00
	Unit Rate for 2018 -19				24900


 Forest Divisional Officer,
 Bellampally

Unit Cost for 4th Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	2500	595.23	100	14881
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	2500	112.68	100	2817
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher 8340 x 12 = 100080 / 15 = 6672/-	1	6672.00	Ha	6672
	Misc exp				530
	Unit Rate for 2018 -19				24900


 Forest Divisional Officer,
 Bellampally

Unit Cost for 5th Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick axe only) without damaging the plant. (July-Aug)-the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted (Rs.595.23 x 25%)	2500	148.81	100	3720
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Misc Exp				149
	Unit Rate for 2018 -19				4200


Forest Divisional Officer,
Bellampally

Unit Cost for 6th Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	2500	112.68	100	2817
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Misc Exp				102
	Unit Rate for 2018 -19				3250


 Forest Divisional Officer,
 Bellampally

Unit Cost for 7th Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	2500	148.81	100	3720
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Misc Exp				149
	Unit Rate for 2018 -19				4200


 Forest Divisional Officer,
 Bellampally

Unit Cost for 8th Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	2500	112.68	100	2817
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Misc Exp				102
	Unit Rate for 2018-19				3250


 Forest Divisional Officer,
 Bellampally

Unit Cost for 9th Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick axe only) without damaging the plant. (July-Aug)-the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	2500	148.81	100	3720
03.05.01	Maintenance of fire lines (100 mtr width) including cutting back of rank growth and	100	331.02	100 Rmt	331
	Misc Exp				149
	Unit Rate for 2018-19				4200


Forest Divisional Officer,
Bellampally

Unit Cost for 10th Year Maintenance of Medicinal Plantation (2m x 2m)SMM per Ha

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	2500	112.68	100	2817
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back o. ank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Misc Exp				102
	Unit Rate for 2018 -18				3250


 Forest Divisional Officer,
 Bellampally