

Compensatory Afforestation Scheme for diversion of 12.03 Ha for laying of Railway Track from Bethampudi RS to Koyagudem OC-III at Tekulapalli Range in favour of M/s. S.C.Co.Ltd., Yellandu

I. Introduction :

1. The Prl. Chief Conservator of Forests, T.S., Hyderabad in reference No.7872/2016/FCA-3, dt: 16.08.2016 while enclosing the proposals received from the M/s. S.C.Co.Ltd., Yellandu for Diversion of 12.03 Ha for laying of railway track from Bethampudi railway station to Koyagudem OC-III in Reserve Forest of then Karepalli Range present Tekulapalli Range of Kothagudem Forest Division, and issued instructions to process the proposals as per Forest (Conservation) Act, 1980. Further, the Prl. Chief Conservator of Forests, T.S., Hyderabad has instructed to prepare CA Scheme in double degraded forest area/ (less than 0.4 density) with 7-10 years maintenance. Hence proposals. The User Agency requested the Department to identify double the extent of forest land diverted for CA purpose.

- (a) Total Area diverted is 12.03 Ha
(b) Double the area identified is 24.06 Ha

II. Identification of degraded area:

The Forest Range Officer, Tekulapalli, to whom the matter was referred for identification of double the extent of degraded area in lieu of diversion of forest land of 12.03 Ha for the above project. The Forest Range Officer, Tekulapalli identified degraded forest land of 24.06 Ha in Compartment No. 30 of Koppurai Beat, Muralipadu Section of Tekulapalli Range which is a retrieved area. The surveyed sketch of the double the degraded area and location on Toposheet 1:50000 is enclosed to the scheme proposals.

III. Planting Techniques

It is proposed to raise Miscellaneous Plantation by adopting artificial regeneration under Semi-Mechanical Method. The said area with sandy loam soil and red loam soil which are suitable for planting for raising Miscellaneous plantation as per the guidelines issued by Prl. Chief Conservator of Forests in Rc.No.43246/2012/CAMPA, dt.29.11.2012. It is noticed that the afforestation will prevent the attempt of encroachment besides cover the forest land with good tree growth.

III.A. Activities proposed in Artificial Regeneration under Semi-Mechanical Method in Degraded forest of 24.06 Ha

- 1. Raising of misc. nursery:** The seedlings suitable such as for soil with two years old are to be raised in the nursery for planting during 2019-20.
- 2. Taking up advance operations:** The advance works under Semi-Mechanical Method in Tekulapalli Range includes clearance of misc. growth, uprootal of stumps, heaping and burning and Tilling.

3. **Raising of plantations:** The esplacement proposed is 3 M x 3 M - 1111 plants/Ha. The activities includes ploughing, alignment, Scoping and Planting in 60 Cms. Cub pits, with misc. species under the direct supervision of Forest Range Office concerned. One circular weeding, Circular weeding, deep soil working, Application of fertilizers, inter-ploughing, protection watcher, digging of cattle proof trench top width 1.5M, bottom width 1 M and height 1M @ 125 Cmt. per Ha.
4. Maintenance of plantations up to 10 years as per calendar operations.
5. Planting targets proposed.

2019-20 - Raising of 5x9 Bag Nurseries

2020-21 - Advance Operations & Maint & Conversion of Nurseries

2021-22 - Raising of Plantation

2022-23 to 2031-32 - Maintenance of Plantation

IV. Project period

It is proposed to implement the scheme from 2019-20 to 2031-32 for a period of (13) years.

V. Project Implementation Agency

The Forest Divisional Officer, Kothagudem will be the Project Implementation Agency and work will be taken through the Forest Range Officer, Tekulapalli in Koppurai Beat. The raising of Compensatory Afforestation Plantation requires additional manpower and mobility. Hence, it is proposed to hire services of one forester in Tekulapalli Range, one Data Entry Operator for initial (3) years in Division office. Similarly one hired vehicle will be engaged for initial (2) years. Accordingly, necessary provisions are made in the Scheme proposals.

VI. Cost structure

Basic rates proposed as per FSR 2018-19 and 10% price escalation is proposed every year on the basic rate of FSR 2018-19. Nursery for all required seedlings will be raised at one central place and accordingly required infrastructure is proposed in the scheme. The details of year-wise physical and financial target are enclosed in Annexure No. I. Unit cost of different planting techniques and plantation operations are shown in Unit Costs.

VII. Cost of the (Scheme) Project

Total cost of the project is Rs. 162.38084 lakhs. The details are shown in Annexure-II.

VIII. Employment Generation

The degraded forest land proposed for Compensator Afforestation is located in Kothagudem and Chandrugonda Mandal in Agency Area. The local labour mostly Tribals along with Scheduled Castes will be benefitted by implementation of this project for their daily livelihood, generation expected to be created is 43361 man days during the project period from 2019-20 to 2031-32 (60% manual component 19722 wage rate during 2015-16 on Rs. 494/- per day.

Further, it is mentioned that in case the selected location and the area are unavailable for taking up planting anticipating the delay of approval of the proposal, suitable degraded areas will be selected and planting will be taken up and accordingly the deviation, in any in implementing the scheme will be borne by the User Agency in the jurisdiction of Kothagudem Division. Similarly, it is also mentioned that the User Agency will be remitting the equal amount into CAMPA Account, in case the degraded forest lands were taken up for re-afforestation with any funding agency since Kothagudem Forest Division has been taking up re-afforestation in the retrieved areas of forest lands, where encroachment problem is severe. To curb the encroachment problem and re-afforestation the gap areas this modification is proposed.



Forest Divisional Officer,
Kothagudem

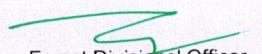
ANNEXURE-I

**COMPENSATORY AFFORESTATION SCHEME IN DEGRADED FOREST AREA OF 24.06 Ha AT Compt., No. 30, Koppurai Beat of Tekulapalli Range IN LIEU OF DIVERSION OF 12.03 HA FOR RAILWAY TRACK
FROM BETHAMPUDI RS to KOYAGUDEM OC-III, TEKULAPALLI RANGE**

Sl. No	Item of Work	Phy	Unit Cost 2018-19 (Rs.)	2019 - 20			2020 - 21			2021 - 22			2022 - 23			2023 - 24			2024 - 25			2025 - 26				
				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	Unit Cost (Rs.)	Fin (Rs.in Lakhs)		
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
I Raising of Plants in Nurseries & their Maintenance, Procurement of Plants																										
1	Raising of Primary beds - Unit cost for 100000 plants	Plant	0.2551	60000	0.28065	0.16839	0	0.30872	0.00000																	
2	Raising of Bag Plants of 5"x9" - Unit Cost 100000 plants	Plant	4.7014	60000	5.17155	3.10293	0	5.68871	0.00000																	
3	Maintenance of Bag Plants of 5"x9" - Unit Cost for 100000 plants	Plant	1.7175					60000	2.07814	1.24688	0	2.28595	0	0	2.5145	0										
4	Conversion of bag plants from 5"x9" to 8"x12" - Unit Cost 100000 plants	Plant	14.8575					60000	17.97757	10.78654	0	19.77533	0	0	21.75286	0										
5	Maintenance of Bag Plants of 8"x12" - Unit Cost for 100000 plants	Plant	3.5605								60000	4.73900	2.84340	0	5.21291	0	0	5.73420	0							
								3.271		12.033			2.843					0.000		0.000			0.000		0.000	
II Planting activities (SMM)																										
6	Advance Operations	Ha	37531					24.06	45412.03	10.92613	0	49953.23	0.00000													
7	Raising of Plantation	Ha	180459								24.06	240191.37	57.79004	0	264210.51	0.00000										
8	1st Year Maintenance	Ha	47802												24.06	69987.39	16.83897	0	76986.13	0.00000						
9	2nd Year Maintenance	Ha	25328												24.06	40791.00	9.81431	0	44870.10	0.00000						
10	3rd Year Maintenance	Ha	16917												24.06	29969.10	7.21057	0	32966.01	0.00000						
11	4th Year Maintenance	Ha	16917																							
12	5th Year Maintenance	Ha	2481																							
13	6th Year Maintenance	Ha	1979																							
14	7th Year Maintenance	Ha	2481																							
15	8th Year Maintenance	Ha	1979																							
16	9th Year Maintenance	Ha	2481																							
17	10th Year Maintenance	Ha	1979					0.00000		10.92613		57.79004			16.83897		9.81431			7.21057					7.93162	
	Sub Total:																									
III SMC Works																										
18	Digging of CPT in km	km	140000		154000.00			5.00	169400.00	8.47000	0	186340.00	0.00000													
19	Bund plantation in km	km	25000		27500.00			0	30250.00	0.00000	5	33275.00	1.66375													
20	Construction of Percolation Tanks	No	350000		385000.00			0	423500.00	0.00000	0	465850.00	0.00000													
21	Construction of Mini Percolation Tanks	No	100000		110000.00			0	121000.00	0.00000	0	133100.00	0.00000													
25	Digging of borewell with solar panels	No	700000		770000.00			0	847000.00	0.00000	0	931700.00	0.00000	0	1024870.00	0.00000									0.00000	
	Sub Total:				0.00000				8.47000		1.66375			0.00000		0.00000									0.7932	
V Administrative Cost - 10%																										
	Total year wise outlay of the project				3.5985			34.5725		68.5269			18.5229		10.7957		7.9316		8.7248							

COMPENSATORY AFFORESTATION

Sl. No	Item of Work	Phy	Unit Cost 2018-19 (Rs.)	2026 - 27			2027 - 28			2028 - 29			2029 - 30			2030 - 31			2031- 32			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 (Rs.in Lakhs)		
1	2	3	4	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	47	48		
I	<i>Raising of Plants in Nurseries & their</i>																								
1	Raising of Primary beds - Unit cost for 100000 plants	Plant	0.2551																			60000	0.16839		
2	Raising of Bag Plants of 5"x9" - Unit Cost 100000 plants	Plant	4.7014																			60000	3.10293		
3	Maintenance of Bag Plants of 5"x9" - Unit Cost for 100000 plants	Plant	1.7175																			60000	1.24688		
4	Conversion of bag plants from 5"x9" to 8"x12" - Unit Cost 100000 plants	Plant	14.8575																			60000	10.78654		
5	Maintenance of Bag Plants of 8"x12" - Unit Cost for 100000 plants	Plant	3.5605																			60000	2.84340		
				0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		18.14815			
II	<i>Planting activities (SMM)</i>																								
6	Advance Operations	Ha	37531																				24.06	10.92613	
7	Raising of Plantation	Ha	180459																				24.06	57.79004	
8	1st Year Maintenance	Ha	47802																				24.06	16.83897	
9	2nd Year Maintenance	Ha	25328																				24.06	9.81431	
10	3rd Year Maintenance	Ha	16917																				24.06	7.21057	
11	4th Year Maintenance	Ha	16917	0	36262.61	0.00000																	24.06	1.27945	
12	5th Year Maintenance	Ha	2481	24.06	5317.76	1.27945	0	5849.54	0.00000														24.06	1.12260	
13	6th Year Maintenance	Ha	1979				24.06	4665.85	1.12260	0	5132.43	0.00000											24.06	1.54814	
14	7th Year Maintenance	Ha	2481							24.06	6434.49	1.54814	0	7077.94	0.00000								24.06	1.35835	
15	8th Year Maintenance	Ha	1979										24.06	5645.68	1.35835	0	6210.24	0.00000						24.06	1.87325
16	9th Year Maintenance	Ha	2481													24.06	7785.73	1.87325	0	8564.31	0.00000		24.06	1.64360	
17	10th Year Maintenance	Ha	1979																				24.06	119.33704	
	<i>Sub Total:</i>				1.27945		1.12260		1.54814		1.35835						1.87325		1.64360				0	0.00000	
III	<i>SMC Works</i>																						5	8.47000	
18	Digging of CPT in km	km	140000																				5	1.66375	
19	Bund plantation in km	km	25000																				0	0.00000	
20	Construction of Percolation Tanks	No	350000																				0	0.00000	
21	Construction of Mini Percolation Tanks	No	100000																				0	0.00000	
25	Digging of borewell with solar panels	No	700000																				0	0.00000	
	<i>Sub Total</i>				0.00000		0.00000		0.00000		0.00000		0.00000		0.00000		0.00000		0.00000				10.13375		
V	<i>Administrative Cost - 10%</i>				0.1279		0.1123		0.1548		0.1358		0.1873		0.1644								14.76189		
	<i>Total year wise outlay of the project</i>				1.4074		1.2349		1.7030		1.4942		2.0606		1.8080								162.38084		


Forest Divisional Officer,
Kothagudem