

Compensatory Afforestation Scheme in Degraded forest land 200Ha in Ramavaram Range of Kothagudem Division in lieu of diversion of 409.530Ha of Forest land for Construction 10 TMC Reservoir at Keshavapur in Medchal-Malkajgiri In favour of HMWS & SB in Medchal-Malkajgiri.

I. Introduction :

The District Forest Officer, Bhadradi Kothagudem vide reference No.443/2020/D1, Dt:22.06.2020 has issued instructions to identify the degraded forest land to an extent of 200 Ha for preparation of Compensatory Afforestation scheme in lieu of diversion of 409.530 Ha of Forest land for Construction of 10 TMC reservoir at Keshavapuram in Medchal-Malkajgiri in favour of HMWS&SB in Medchal-Malkajgiri.

II. Identification of degraded area:

The Forest Range Officer, Ramavaram, to whom the matter was referred for identification of degraded forest area in lieu of diversion of forest land of 409.53 Ha for the above mentioned projects, has identified degraded forest land of 200.00 Ha are shown below. The surveyed sketch of the degraded forest area and location on Toposheet 1:50000 are enclosed to the scheme proposals. The area details are shown below.

Sl.No	Division	Range	Section	Beat	Compt. No.	RF	Area in Ha
1	Kothagudem	Ramavaram	Penagadapa	Penagadapa	30	Penagadapa	20.00
2	Kothagudem	Ramavaram	Penagadapa	Penagadapa	29 & 30	Penagadapa	20.00
3	Kothagudem	Ramavaram	Penagadapa	Tippanapalli	13	Ramavaram	40.00
4	Kothagudem	Ramavaram	Penagadapa	Tippanapalli	13	Ramavaram	20.00
5	Kothagudem	Ramavaram	Penagadapa	Musalivarre (E)	9	Ramavaram	100.00
Total::							200.00

III. Planting Techniques

It is proposed to raise Miscellaneous Plantation by adopting artificial regeneration under Semi-Mechanical Method in the said degraded forest areas. The said areas with red loam soil and sandy 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.

IV. Activities proposed in Artificial Regeneration under Semi-Mechanical Method in Degraded forest of 200.00 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 2023-24.

2. Taking up advance operations:

The advance works under Semi-Mechanical Method in Ramavaram Range includes clearance of misc. growth, uprootal of stumps, tilling and heaping and burning.

3. Raising of plantations:

The esplacement proposed is 3 M x 3 M - 1111 plants/ Ha. The activities including ploughing, alignment, Scoping and Planting in 45 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

Maintenance of plantations was taken up to 10 years as per calendar operations.

5. Planting targets proposed.

2021-22 – Raising of 4x7 Bag Nurseries and Conversion

2022-23 – Advance Operations & Maintenance of Nurseries

2023-24 – Raising of Plantation

2024-25 to 2034-35 – Maintenance of Plantation

V. Project period

It is proposed to implement the scheme from 2020-21 to 2034-35 for a period of (12) years.

VI. Project Implementation Agency

The Forest Divisional Officer, Kothagudem will be the Project Implementation Agency and work will be taken through the Forest Range Officer, Ramavaram in Penagadapa, Tippnapally and Musalivarre(E) Beats. The raising of Compensatory Afforestation Plantation requires additional manpower and mobility. Hence, it is proposed to hire services of one forester in Ramavaram Range, one Data Entry Operator for initial (3) years in Division office, accordingly, necessary provisions are made in the Scheme proposals under Administrative Cost - 10% of the Scheme Value.

VII. Cost structure

Basic rates proposed as per FSR 2020-21 and 10% price escalation is proposed every year on the basic rate of FSR 2020-21. 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 separate sheets and are enclosed.

VIII. Cost of the (Scheme) Project

Total cost of the project is Rs. **1283.136** lakhs. The details are shown in Annexure 1.

S. No	Scheme Proposals	Cost in Lakhs
1	Raising of Nurseries	83.101
2	Advance operations	119.013
3	Raising of plantations	230.589
4	1 st year maintenance of Plantations	91.214
5	2 nd year maintenance of Plantations	81.342
6	3 rd year maintenance of Plantations	52.286
7	4 th year maintenance of Plantations	46.227
8	5 th year maintenance of Plantations	43.081
9	6 th year maintenance of Plantations	10.805
10	7 th year maintenance of Plantations	52.126
11	8 th year maintenance of Plantations	13.074
12	9 th year maintenance of Plantations	63.073
13	10 th year maintenance of Plantations	15.819
14	SMC Works	257.189
15	Habitat Improvement works	7.549
16	Administrative Cost	116.649
	Total Cost of the Project:	1283.136

IX. Employment Generation

The degraded forest land proposed for Compensatory 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 117181 man days during the project period from 2020-21 to 2034-35 (60% manual component wage rate during 2019-20 on Rs. 657/- per day.

X. Annexures:


Annexure I	Year wise Estimated cost Compensatory Afforestation
Annexure II	Unit cost Data sheets

Further, it is mentioned that in case the selected locations and the areas 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.


District Forest Officer
Bhadradi Kothagudem District

Site Inspection Report of 200.00 Ha of degraded forest areas identified for Compensatory Afforestation Scheme in Penagadapa, Tippanapally and Musalivarre(E) Beats of Ramavaram Range for diversion of 409.530 Ha of Forest land for Construction of 10 TMC reservoir at Keshavapuram in Medchal-Malkajgiri in favour of HMWS&SB in Medchal-Malkajgiri.

I have inspected the degraded forest areas of 200.00 ha in Compt. No.13 of Tippanapally Beat, Compt No.29 and 30 in Penagadapa Beat, Compt. No. 13 in Tippanapally Beat and Compt. No. 9 in Musalivarre (E) Beat along with Forest Range Officer, Ramavaram and concerned filed staff on 26.06.2020. The degraded area is identified for raising Compensatory Afforestation plantation under Semi Mechanical Method. The Compensatory Afforestation area identified is degraded forests (200.00 Ha) against the proposed diversion of 409.530 ha of forest land for Construction of 10 TMC reservoir at Keshavapuram in Medchal-Malkajgiri in favour of HMWS&SB in Medchal. The forest type in previous years is Southern Tropical dry deciduous forest and at present the area is totally degraded due to encroachments. The soils are Red soil and sandy soil. This area is suitable for raising Compensatory Afforestation plantations. It is also proposed to take up plantation with Misc. species as per the Prl. Chief Conservator of Forests, Hyderabad instructions issued in Ref.No.43246/2012/CAMPA dt.29.11.2012. The detailed scheme proposals are enclosed.


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CERTIFICATE

This is to certify that the 200.00 Ha of degraded forest area identified in Compt. No.13 of Tippanapally Beat, Compt No.29 and 30 in Penagadapa Beat, Compt. No. 13 in Tippanapally Beat and Compt. No. 9 in Musalivarre (E) Beat of Ramavaram Range of Kothagudem Division is suitable for raising Misc. Plantations. These areas are not allotted to any V.S.S. of Ramavaram Range. Preference is to be given to raise plantations with local species at the choice of the local villagers but at the technical guidance of the forest staff to avoid encroachment on the said proposed areas once prone for encroachment.


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Sl. No	Item of Work	Phy	Unit Cost 20-21 (Rs.)	2021 - 22				2022 - 23				2023 - 24				2024 - 25				2025 - 26				2026 - 27				2027 - 28	
				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)	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					
20	Construction of Percolation Tanks in DFL CA and within vicinity of DFL CA	No's	220000		242000		1	266200	2.6620	1	292820	2.9282	1	322102	3.2210														
21	Construction of Mini PTs in DFL CA within vicinity of DFL CA	No's	82500		90750	0.0000	4	99825	3.9930	4	109808	4.3923	4	120788	4.8315														
23	Staggered trenches in DFL CA within vicinity of DFL CA	Cmt	231		254			280	0.0000	20000	307	61.4922	20000	338	67.6414														
24	Digging of borewell with solar panels	No's	770000		847000	0.0000	1	991700	9.3170	0	1024870	0.0000																	
	Sub Total					0.00000			59.24000			118.58910			85.35703			0.00000			0.00000			0.00000					
IV Habitat Improvement works																													
26	Removal of obnoxious weed within vicinity of DFL CA	ha	8756				10	10595	1.0595	10	11654	1.165																	
27	Development of grass plots within vicinity of DFL CA	No's	440000				1	532400	5.3240																				
	Sub Total					0.00000			6.38348			1.16542			0.00000			0.00000			0.00000			0.00000					
IV Administrative Cost - 10%																													
						1.35999			14.88889			31.93276			25.79904			8.75825			6.75060			4.94009					
Total year wise outlay of the project																													
						14.95993			163.77776			351.26035			283.78943			96.34077			74.25658			54.34095					

Sl. No	Item of Work	Phy	Unit Cost 20-21 (Rs.)	2028 - 29			2029 - 30			2030 - 31			2031 - 32			2032 - 33			2033 - 34			2034-35			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	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	44	45	46	47	48
20	Construction of Percolation Tanks in DFL CA and within vicinity of DFL CA	No's	220000																						3	8.811
21	Construction of Mini PT's in DFL CA within vicinity of DFL CA	No's	82500																						12	13.217
23	Staggered trenches in DFL CA within vicinity of DFL CA	Cmt	231																						40000.00	129.134
24	Digging of borewell with solar panels	No's	770000																						1	9.317
	Sub Total					0.00000			0.00000			0.00000			0.00000			0.00000			0.00000			0.00000		257.185
IV	Habitat Improvement works																									
26	Removal of obnoxious weed within vicinity ha of DFL CA	ha	8756																						20.00	2.225
27	Development of grass plots within vicinity of DFL CA	No's	440000																						1.00	5.324
	Sub Total					0.00000			0.00000			0.00000			0.00000			0.00000			0.00000			0.00000		7.549
IV	Administrative Cost - 10%					4.47286			2.77111			3.04817			3.35298			3.68828			4.05711			0.82861		116.649
	Total year wise outlay of the project					49.20141			30.48219			33.57983			36.88281			40.57109			44.58280			9.11476		1283.186

District Forest Officer
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