

**Compensatory Afforestation Scheme in Degraded forest land 20 Ha.,
in Aswapuram Range of Manuguru 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 20 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, Aswapuram, 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 20 Ha., in Compt. No. 209, Satyanarayanapuram Beat, Eravendi Section of Aswapuram Range. The surveyed sketch of the degraded forest area and location on Toposheet 1:50000 are enclosed to the scheme proposals.
- 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 black cotton 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 20.00 Ha.,**
- 1. Rising 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 Compt. No. 209, Satyanarayanapuram Beat, Eravendi Section of Aswapuram Range includes clearance of misc. growth, uprootal of stumps, tilling and heaping and burning.
 - 3. Raising of plantations:** The espacement 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 Officer 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 1 M @ 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

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, Manuguru will be the Project Implementation Agency and work will be taken through the Forest Range Officer, Aswapuram in Satyanarayanapuram Beat. The raising of Compensatory Afforestation Plantation requires additional manpower and mobility. Hence, it is proposed to hire services of one forester in Aswapuram 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. **128.81962** lakhs. The details are shown in Annexure-I.

S. No	Scheme Proposals	Cost in Lakhs
1	Raising of Nurseries	10.84030
2	Advance operations	12.46801
3	Raising of plantations	24.15697

4	1 st year maintenance of Plantations	9.55577
5	2 nd year maintenance of Plantations	8.52153
6	3 rd year maintenance of Plantations	5.47763
7	4 th year maintenance of Plantations	4.84280
8	5 th year maintenance of Plantations	4.51321
9	6 th year maintenance of Plantations	1.13191
10	7 th year maintenance of Plantations	5.46087
11	8 th year maintenance of Plantations	1.36961
12	9 th year maintenance of Plantations	6.60765
13	10 th year maintenance of Plantations	1.65723
14	SMC Works	20.50527
15	Habitat Improvement works	0
16	Administrative Cost	11.71087
	Total Cost of the Project:	128.81962

IX. Employment Generation: The degraded forest land proposed for Compensatory Afforestation is located in Aswapuram 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 11764 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 Manuguru 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 Manuguru 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 20.00 Ha of degraded forest areas identified for Compensatory Afforestation Scheme in Compt.No. 209, Satyanarayanapuram Beat of Aswapuram 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 20 Ha., in Compt. No. 209 of Satyanarayanapuram Beat along with Forest Range Officer, Aswapuram 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 (20.00 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 loam soil and block cotton 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.


District Forest Officer,
Bhadradri Kothagudem District.

C E R T I F I C A T E

In Compt.No. 209 of Satyanarayanapuram Beat, Aswapuram Range of Manuguru Division is suitable for raising Misc. Plantations. These areas are not allotted to any V.S.S. of Aswapuram 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.


District Forest Officer,
Bhadradi Kothagudem District.

Unit	2021 - 22	2022 - 23
Compensatory afforestation scheme for 20 ha over Degraded Forest Land in Manuguru in lieu of diversion of 409.53 ha under F©Act,1980 for construction of 10 TMC reservoir at Keshavapuram in favour of HMW&SB in Medchal-Malkajgiri		

Sl. No		Item of Work	Phy	Unit Cost 2019-20 (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)	
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	
Raising of Plants in Nurseries & their Maintenance, Procurement of Plants																										
1	Raising of Primary beds	Plant	0.4116	30000	0.45273	0.13582	10000	0.49800	0.04980	5000	0.54780	0.02739														
2	Raising of Bag Plants of 4"x7"	Plant	4.5339	30000	4.98725	1.49617	10000	5.48597	0.54860	5000	6.03457	0.30173														
3	Maintenance of Bag Plants of 4"x7"	Plant	1.1150				30000	1.48412	0.44524	10000	1.63253	0.16325	5000	1.79579	0.08979											
4	Conversion of bag plants from 4"x7" to 6"x12"	Plant	7.6812				30000	10.22369	3.06711	10000	11.24605	1.12461	5000	12.37066	0.61853											
5	Maintenance of Bag Plants of 6"x12"	Plant	4.4269							30000	5.89218	1.76765	10000	6.48140	0.64814	5000	7.12954	0.35648								
Sub Total:						1.63199			4.11074			3.38463			1.35646			0.35648			0.00000				0.00000	
6	Advance Operations	Ha	46837					20.00	62340	12.46801	0.00	68574	0.00000													
7	Raising of Plantation	Ha	82498								20.00	120785	24.15697	0.00	132863	0.00000										
8	1st Year Maintenance	Ha	29667											20.00	47779	9.55577	0.00	52557	0.00000							
9	2nd Year Maintenance	Ha	24051														20.00	42608	8.52153	0.00	46868	0.00000				
10	3rd Year Maintenance	Ha	14054																	20.00	27388	5.47763	0.00	30127	0.00000	
11	4th Year Maintenance	Ha	11296																				20.00	24214	4.84280	
12	5th Year Maintenance	Ha	9570																							
13	6th Year Maintenance	Ha	2182																							
14	7th Year Maintenance	Ha	9570																							
15	8th Year Maintenance	Ha	2182																							
16	9th Year Maintenance	Ha	9570																							
17	10th Year Maintenance	Ha	2182																							
Sub Total:						0.00000			12.46801			24.15697			9.55577			8.52153			5.47763				4.84280	
III SMC Works																										
18	Digging of CPT in km	km	140000		154000		4	169400	6.7760	0	186340	0.0000														
19	Bund plantation in km	km	30000		33000			36300		4	39930	1.5972	0	43923	0.0000											
20	Construction of Percolation Tanks in DFL CA and within vicinity of DFL CA	No's	200000		220000		1	242000	2.4200	0	266200	0.0000	0	292820	0.0000											
21	Construction of Mini PTs in DFL CA within vicinity of DFL CA	No's	75000		82500	0.0000	1	90750	0.9075	0	99825	0.0000	0	109808	0.0000											
23	Staggered trenches in DFL CA within vicinity of DFL CA	Cmt	210		231			254	0.0000	1500	280	4.1927	1500	307	4.6119											
24	Digging of borewell with solar panels	No's	700000		770000	0.0000	0	847000	0.0000	0	931700	0.0000														
Sub Total						0.00000			10.10350			5.78985			4.61192			0.00000			0.00000				0.00000	

Sl. No	Item of Work	Phy	Unit Cost 2019-20 (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)
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
IV	Habitat Improvement works																							
26	Removal of obnoxious weed within vicinity of DFL CA	ha	7960				0	10595	0.0000	0	11654	0.000												
27	Development of grass plots within vicinity of DFL CA	No's	400000				0	532400	0.0000															
	Sub Total					0.00000			0.00000			0.00000			0.00000			0.00000			0.00000			0.00000
IV	Administrative Cost - 10%					0.16320			2.66822			3.33315			1.55241			0.88780			0.54776			0.48428
	Total year wise outlay of the project					1.79519			29.35047			36.66460			17.07656			9.76581			6.02539			5.32708

Sl. No	Item of Work	Phy	Unit Cost 2019-20	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	41	42	43	44	45
IV	Habitat Improvement works																									
26	Removal of obnoxious weed within vicinity of DFL CA	ha	7960																						0.00	0.00000
27	Development of grass plots within vicinity of DFL CA	No's	400000																						0.00	0.00000
	Sub Total					0.00000			0.00000			0.00000			0.00000			0.00000			0.00000			0.00000		0.00000
IV	Administrative Cost - 10%					0.45132			0.11319			0.54609			0.13696			0.66076			0.16572			0.00000		11.71087
	Total year wise outlay of the project					4.96453			1.24510			6.00695			1.50657			7.26841			1.82295			0.00000		128.81962

District Forest Officer
Bhadradi Kotnagudem District