

Compensatory Afforestation Scheme for in Degraded forest land 80.0 Ha in Chatakonda Range and 50.0 Ha. in Allapally Range of WLM Kinnerasani Division, in lieu of diversion of 409.530 Ha of Forest land for Construction of Keshavapur Reservoir 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 an Extent of 130.0 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 Officers, Chatakonda and Allapally, 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 130.0 Ha are shown below. The surveyed sketch of the degraded forest area and location on Topo sheet 1:50000 is enclosed to the scheme proposals. Details are shown below.

Sl. No.	Division	Range	Section	Beat	Compt. No.	Area In Ha
1	WLM Kinnerasani Division	Chatakonda	Sampathnagar	Sampathnagar	16	50
2		Chatakonda	Sampathnagar	Yerrachelka	5	30
3		Allapally	Venkatapuram	Venkatapuram (S)	23	50
TOTAL:						130.00

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 black cotton soil, 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 130.00 Ha:

a. 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.

b. Taking up advance operations:

The advance works under Semi-Mechanical Method in Chatakonda & Allapally Ranges includes clearance of misc. growth, uprootal of stumps, tilling and heaping and burning.

c. Raising of plantations:

The espacement proposed is 3 M x 3 M - 1111 plants/ Ha. The activities include 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.

d. Maintenance of plantations

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

e. Planting targets proposed:

2021-22	- Raising of 4x7 Bag Nurseries
2022-23	- Advance Operations & Maintenance of Nurseries
2023-24	- Raising of Plantation
2024-25 to 2034-35	- Maintenance of Plantation

- f. Continuous Peripheral Trench around the proposed CA plantation site and other protective measures and habitat improvements are proposed to be taken up with twin objectives of Soil & Moisture conservation and creating green cover. Scheme is prepared with an outlay of **Rs. 959.85645 lakhs** for development of Degraded Forest area.

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, WLM Kinnerasani Division will be the Project Implementation Agency and work will be taken through the Forest Range Officers, Chatakonda Range in Sampathnagar and Yerrachelka Beats and Allapally range in

Venkatapuram (S) Beat. The raising of Compensatory Afforestation Plantation requires additional manpower and mobility. Hence, it is proposed to hire services of one forester in Chatakonda & Allapally Ranges, 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:

The total financial out lay of the project is as follows:

S.No	Scheme Proposals	Cost in Lakhs
	CA-DFL	
1	Compensatory Afforestation in Degraded Forest Area	651.59252
2	Forest Protection including Fire protection & SMC works	201.16250
3	Habitat Improvement	19.84175
4	Administrative Cost	87.25968
	Total:	959.85645

IX. Employment Generation:

The degraded forest land proposed for Compensator Afforestation is located in Laxmidevipally and Allapally Mandals 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 87658 man days during the project period from 2021-22 to 2034-35 (60% manual component 87658 wage rate during 2021-22 on Rs. 597/- per day.

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 WLM Kinnerasani 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 Forest WLM Kinnerasani 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 30.00 Ha of degraded forest areas identified in Yerrachelka Beat of Chatakonda Range of WLM Kinnerasani Division 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.

I have inspected the degraded forest area of 30.0 ha in Compt.No.5 of Yerrachelka Beat along with Forest Range Officer, Chatakonda and concerned filed staff on 13.05.2020. The degraded area is identified for raising Compensatory Afforestation plantation under SMM pertaining to Construction of 10 TMC reservoir at Keshavapuram in Medchal-Malkajgiri in favour of HMWS & SB in Medchal-Malkajgiri. The forest type is Southern Tropical dry deciduous forest and at present the area is totally degraded due to encroachments. The soils are Black Cotton, Red soil and sandy. This area is suitable for raising CA plantations. It is also proposed to take up plantation with Misc. species the detailed scheme proposals are enclosed.


**District Forest Officer
Bhadradi Kothagudem District**

Site Inspection Report of 50.00 Ha of degraded forest areas identified in Sampathnagar Beat of Chatakonda Range of WLM Kinnerasani Division 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.

I have inspected the degraded forest area of 50.0 ha in Compt.No.16 of Sampathangar Beat along with Forest Range Officer, Chatakonda and concerned filed staff on 17.06.2020. The degraded area is identified for raising Compensatory Afforestation plantation under SMM pertaining to Construction of 10 TMC reservoir at Keshavapuram in Medchal-Malkajgiri in favour of HMWS & SB in Medchal-Malkajgiri. The forest type is Southern Tropical dry deciduous forest and at present the area is totally degraded due to encroachments. The soils are Black Cotton, Red soil and sandy. This area is suitable for raising CA plantations. It is also proposed to take up plantation with Misc. species the detailed scheme proposals are enclosed.


**District Forest Officer
Bhadradi Kothagudem District**

Site Inspection Report of 50.00 Ha of degraded forest areas identified in Venkatapuram (S) Beat of Allapally Range of WLM Kinnerasani Division 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.

I have inspected the degraded forest area of 50.0 ha in Compt.No.23 of Venkatapuram (S) Beat along with Forest Range Officer, Allapally and concerned filed staff on 17.06.2020. The degraded area is identified for raising Compensatory Afforestation plantation under SMM pertaining to Construction of 10 TMC reservoir at Keshavapuram in Medchal-Malkajgiri in favour of HMWS & SB in Medchal-Malkajgiri. The forest type is Southern Tropical dry deciduous forest and at present the area is totally degraded due to encroachments. The soils are Black Cotton, Red soil and sandy. This area is suitable for raising CA plantations. It is also proposed to take up plantation with Misc. species the detailed scheme proposals are enclosed.


**District Forest Officer
Bhadradi Kothagudem District**

CERTIFICATE

This is to certify that the 130.0 Ha. of degraded forest area identified in Chatakonda and Allapally Ranges in lieu of diversion of 409.530 Ha of Forest land for Construction of Keshavapur Reservoir in Medchal-Malkajgiri in Compt.No.5 of Yarrachelka Beat, Compt.No.16 of Sampathnagar Beat of Chatakonda Range and in Compt.No. 23 of Venkatapuram (S) Beat of Allapally Range of WLM Kinnerasani Division is suitable for raising Misc. Plantations. 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

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)	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	200000		220000		1	242000	2.4200	1	266200	2.6620	1	292820	2.9282																
21	Construction of Mini Pits in DFL CA within vicinity of DFL CA	No's	75000		82500	0.0000	2	90750	1.8150	2	99825	1.9965	2	109808	2.1962																
23	Staggered trenches in DFL CA within vicinity of DFL CA	Cmt	210		231			254	0.0000	15000	280	41.9265	20000	307	61.4922																
24	Digging of borewell with solar panels	No's	700000		770000	0.0000	1	847000	8.4700	1	931700	9.3170																			
	Sub Total					0.000000			38.11500			89.84250			73.20500			0.000000			0.000000			0.000000							
IV	Habitat Improvement works																														
26	Removal of obnoxious weed within vicinity of DFL CA	ha	7960				15	10595	1.5892	15	11654	1.748																			
27	Development of grass plots within vicinity of DFL CA	No's	400000				2	532400	10.6480	1	585640	5.8564																			
	Sub Total					0.000000			12.23721			7.60454			0.000000			0.000000			0.000000			0.000000							
IV	Administrative Cost - 10%					1.08800			12.66319			24.98768			18.81837			6.39293			4.53447			3.44347							
	Total year wise outlay of the project					11.96795			139.29504			274.86446			207.00204			70.32249			49.87921			37.69814							

Sl. No	Item of Work	Phy	Unit Cost 2019-20 (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)					
1	2	3	4	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45			
20	Construction of Percolation Tanks in DFL CA and within vicinity of DFL CA	No's	200000																				3	8.01020		
21	Construction of Mini PTs in DFL CA within vicinity of DFL CA	No's	75000																				6	6.00765		
23	Staggered trenches in DFL CA within vicinity of DFL CA	Cmt	210																				6	6.00765		
24	Digging of borewell with solar panels	No's	700000																				35000.00	103.41870		
	Sub Total					0.000000			0.000000			0.000000			0.000000			0.000000			0.000000		2	17.78700		
IV	Habitat Improvement works																						201.16250			
26	Removal of obnoxious weed within vicinity ha of DFL CA	ha	7960																				30.00	3.33735		
27	Development of grass plots within vicinity of DFL CA	No's	400000																				3.00	16.50440		
	Sub Total					0.000000			0.000000			0.000000			0.000000			0.000000			0.000000		19.84175			
IV	Administrative Cost - 10%					3.13705			1.69390			2.49562			2.04958			3.01970			2.47999		0.45574	87.25968		
	Total year wise outlay of the project					34.60757			18.63285			27.45183			22.54540			33.23672			27.27994		5.01312	959.85645		

District Forest Officer
Bhadradi Kotagudem District