

Compensatory Afforestation Scheme for Diversion of 27.227 Ha Forest Land in Bhadrachalam Forest Division for formation of road from Seethanagaram to Kurnapalli Road from KM 0/0 to 20/0 in erstwhile Khammam District in favour of SE, R&B Circle, Khammam in Non-forest CA lands and degraded forest lands

A. Non-forest CA lands (NFL):

1. Introduction:

It is submitted that the Principal Chief Conservator of Forests, TS, Hyderabad vide his Rc.No.12376/2016-FCA2, Dt:01-09-2017 has issued instructions to submit the CA Scheme for Formation of Road from Seethanagaram to Kurnapalli Road from KM 0/0 to 20/0. The details are as follows.

Sl. No.	Name of the Work	Area to be diverted in Ha.	Remarks
1	Formation of Road from Seethanagaram to Kurnapalli Road from KM 0/0 to 20/0 erstwhile Khammam District	27.227	The user agency has submitted the proposals for diversion of 27.227 Ha, but the then DFO and CF, Khammam have recommended proposal for diversion of 25.436 Ha duly deleting the admitted RoW.

It is further submitted that the Non-Forest land has been handed over by the User Agency to an extent of 27.156 Ha in Sy.No.227 of Aswaraopeta Mandal of erstwhile Khammam district. After re-organization of the Districts and Divisions, the Non-Forest land which was identified falls under the jurisdiction of Paloncha Division of Bhadravati Kothagudem District. The details are as follows.

Sl. No	Name of the Range	Name of the Mandal	Name of the Village	Sy.No.	Non-Forest land handed over by the User Agency	
					Ext. in Acres	Extent in Ha
1.	Aswaraopeta	Aswaraopeta	Asupaka	227	67.077	27.156

The above Non forest land to an extent of 27.156 Ha is hillock and covered with good vegetation and not to take up any plantations in the said area. Keeping in view the nature of the Non- forest land it is proposed to takeup operations like singling, coppicing and bush clearance along with SMC works. Hence CA scheme is prepared to an amount of Rs.22.32275 Lakhs to deal these Non-forest CA areas. As the areas are isolated with a small patches, with lot of biotic pressure from adjoining villages and there is every possibility of encroachment of this land for agriculture or for quarry or for any. Hence suitable protection measures are needed from biotic pressure and encroachment. Hence chain link fence is proposed all around the boundary of the CA area.

Hence chain link fence is proposed all around the boundary of the CA area. The details are as follows.

1. THE SCHEME - TREATMENT MODELS AND OPERATIONS PROPOSED:

Soil and moisture conservation works: It is proposed to carry out SMC works like Digging of SCT, Percolation tank etc in the CA areas.

Protection of CA land: Erection of Chain link fencing around the CA area with gate is proposed. The boundary pillars are also proposed around the CA land to facilitate notification of CA lands as PF/RF.

Administrative Costs (Over Heads): As the work involves lot of record maintenance, book keeping and mobility of the field officers it is required to provide 10% of treatment cost (nursery raising, plantations raising and SMC works) towards over heads and monitoring of implementation of the Scheme.

PROJECT COST: The total financial out lay of the project is Rs.22.32275 Lakhs. The annual requirement of funds have been worked out on the base cost of 2017-18 FSR with 10% annual escalation for the remaining project period up to 2030-31.

The component wise details in brief are as follows.

S. No	Scheme Proposals	Cost in Lakhs
1	Singling, Coppicing, Bush cleaning	0.30250
2	Construction of boundary Pillars	1.3600
3	Construction of small pillars at 20 Mtr interval along the periphery	0.8800
4	Erection of gates	1.000
5	Erection of chain link fencing	18.750
7	Administrative cost 10% over Core activities	0.03025
	Total:	22.32275

B. Degraded forest lands (DFL) for CA:

1. Introduction:

In addition to that the equivalent degraded Forest land to an extent of 27.50 Ha has been identified by the Forest Range Officer, Aswaraopeta to meet the requirement of planting 1000 plants/ ha of forest land diverted for the Project.

The details of areas identified for DFL CA with < 0.4 density are as follows.

Sl. No.	Range	Block	Section	Beat	Compt. No.	Area (in Ha)
1	Aswaraopeta	Aswaraopeta Extn-I	Aswaraopeta	Papidigudem	292	27.50

2. THE SCHEME - TREATMENT MODELS AND OPERATIONS PROPOSED:

Plantations: It is proposed to take up compensatory afforestation of **NON TEAK SECONDARY HARDWOOD SPECIES (NTSH)** through Semi-mechanical method, with CPT along the periphery of the DFL CA area.

The above Afforestation and Reforestation works shall be carried out either by involvement of VSS members wherever possible or through Departmental execution.

The operations to be carried out are Survey and demarcation, clearance of existing unwanted growth, uprootal, burning, ploughing, inter-ploughing, scoping of 60 cm cube pits, importing of soil, and planting at 3 x 3 m espacement with 10 years of maintenance etc. Watering of plants is provided for raising year.

Soil and moisture conservation works: It is proposed to carry out SMC works like Digging of CPT, Constructions of Check Dams, Percolation tank etc in the CA areas.

Administrative Costs (Over Heads): As the work involves lot of record maintenance, book keeping and mobility of the field officers it is required to provide 10% of treatment cost (nursery raising, plantations raising and SMC works) towards over heads and monitoring of implementation of the Scheme.

PROJECT COST: The total financial out lay of the project is **Rs. 167.34931 Lakhs.**

Nursery raising and maintenance is proposed in 2018-19 & 2019-20, Advance operations 2019-20 and raising of plantation starts from 2020-21. The annual requirement of funds have been worked out on the base cost of 2017-18 FSR with 10% annual escalation for the remaining project period up to 2030-31.

The component wise details in brief are as follows.

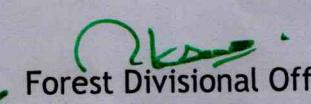
S. No	Scheme Proposals	Cost in Lakhs
1	Raising of Plants in Nurseries & their Maintenance	13.95344
2	Raising of plantations with 10 years of maintenance	133.11542
3	SMC Works	5.06688
4	Administrative Cost - 10%	15.21357
	Total:	167.34931

Mode of Execution:

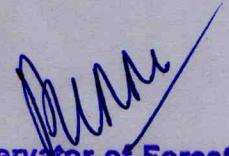
It is proposed to implement the above proposals through VSS on Joint Forest Management concept wherever possible or by Departmental execution method. In addition to the existing staff of Forest Department with required logistic support, necessary manpower required for effective implementation of the project will be hired through outsourcing from the administrative cost.

Annexures:

Annexure IV	Abstract of Compensatory Afforestation Scheme on DFL
Annexure V	Year wise Estimated cost Compensatory Afforestation
Annexure VI	Unit cost Data sheets


Forest Divisional Officer
Paloncha


DISTRICT FOREST OFFICER
Bhadradri Kothagudem Dist,
Kothagudem.


Chief Conservator of Forests /
Conservator of Forests
KOTHAGUDEM CIRCLE

YEAR WISE DETAILED ABSTRACT OF CA SCHEME over 27.227 Ha of Non-Forest Land - formation of road from Seethanagaram to Kurnapalli of Paloncha Division

Chief Conservator of Forests
Conservator of Forests
KOTHAGUDEM CIRCLE

DISTRICT FOREST OFFICER
Badrakot Kothagudem Dist
Kothagudem.

**Forest Divisional Officer
Paloncha**

— 36 —

Year-wise detailed Abstract of CA Scheme for 27.50 Ha in Degraded Forest Land for of Paloncha Division

Sl. No	Item of Work	Phy	Unit Cost 2017-18 (Rs.)	2018 - 19			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)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	
1	2			9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
I Raising of Plants in Nurseries & their Maintenance, Procurement of Plants																									
1	Raising of Primary beds - Unit cost for 100000 plants	Plant	0.2491	49000	0.27403	0.13427	0	0.30143	0																
2	Raising of Bag Plants of 5"x9" - Unit Cost 100000 plants	Plant	4.7932	49000	5.27253	2.58354	0	5.79978	0																
3	Maintenance of Bag Plants of 5"x9" - Unit Cost for 100000 plants	Plant	1.6559				49000	2.00364	0.98178	0	2.20400	0	0	2.4244	0										
4	Conversion of bag plants from 5"x9" to 8"x12" - Unit Cost 100000 plants	Plant	13.9689				49000	16.90239	8.28217	0	18.59263	0	0	20.45190	0										
5	Maintenance of Bag Plants of 8"x12" - Unit Cost for 100000 plants	Plant	3.0232							49000	4.02383	1.97167	0	4.42621	0	0	4.86883	0							
					2.718			9.264			1.972			0.000			0.000			0.000			0.000		
II Planting activities (SMM)																									
6	Advance Operations	Ha	39865				27.50	48237	13.26508	0.00	53060	0.00000													
7	Raising of Plantation	Ha	177211							27.50	235867	64.86347	0.00	259454	0.00000										
8	1st Year Maintenance	Ha	45647										27.50	66832	18.37876	0.00	73515.03	0.00000							
9	2nd Year Maintenance	Ha	23187																						
10	3rd Year Maintenance	Ha	16265																						
11	4th Year Maintenance	Ha	16265																						
12	5th Year Maintenance	Ha	2385																						
13	6th Year Maintenance	Ha	1903																						
14	7th Year Maintenance	Ha	2385																						
15	8th Year Maintenance	Ha	1903																						
16	9th Year Maintenance	Ha	2385																						
17	10th Year Maintenance	Ha	1903																						
Sub Total:					0.00000			13.26508			64.86347			18.37876			10.26930			7.92390			8.71629		

13631

Sl. No	Item of Work	Phy	Unit Cost 2017-18 (Rs.)	2018 - 19			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)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)
III SMC Works																								
18	Digging of CPT in km	km	140000		154000.00		2.5	169400	4.2350	0	186340.00	0.000												
19	Bund plantation in km	km	25000		27500.00		0	30250	0	2.5	33275.00	0.832												
20	Construction of Percolation Tanks	No	350000		385000.00		0	423500	0	0	465850.00	0												
21	Construction of Mini Percolation Tanks	No	100000		110000.00		0	121000	0	0	133100.00	0												
22	Checkdams	No	750000		825000.00		0	907500	0	0	998250.00	0	0	1098075	0									
23	Desilting of old percolatin tanks	No	300000		330000.00		0	363000	0	0	399300.00	0	0	439230	0									
24	Staggered trenches(0.45*0.45*1500 RMT/Ha	Cmt			200.00		0	220	0	0	242.00	0	0	1024870	0									
25	Digging of borewell with solar panels	No	700000		770000.00		0	847000	0	0	931700.00	0	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Sub Total						0.00000		4.2350			0.832			0.00000		0.00000		0.00000		0.7924		0.8716		
IV Administrative Cost - 10%						0.2718		2.6764			6.7667			1.8379		1.0269		11.2962		8.7163		9.5879		
Total year wise outlay of the project						2.9896		29.4404			74.4337			20.2166										

1595

Sl. No	Item of Work	2025 - 26			2026 - 27			2027 - 28			2028 - 29			2029 - 30			2030 - 31			Grand Total	
		Unit Cost 2017-18 (Rs.)	Phy 2017 (Rs.)	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy (Rs.)	Unit Cost (Rs.)	Fin (Rs.in Lakhs)													
1	2		30	31	32	33	34	35	36	37	38	39	40	41	39	40	41	39	40	41	51 52
I	Raising of Plants in Nurseries & their Ma																				49000 0.1343
1	Raising of Primary beds - Unit cost for 100000 plants	Plant	0.2491																		49000 2.5835
2	Raising of Bag Plants of 5'x9" - Unit Cost 100000 plants	Plant	4.7932																		49000 0.9818
3	Maintenance of Bag Plants of 5'x9" - Unit Cost for 100000 plants	Plant	1.6559																		49000 8.2822
4	Conversion of bag plants from 5'x9" to 8'x12" - Unit Cost 100000 plants	Plant	13.9689																		49000 1.9717
5	Maintenance of Bag Plants of 5'x12" - Unit Cost for 100000 plants	Plant	3.0232																		13.95344
																					0.0000
II	Planting activities (SMM)																				
6	Advance Operations	Ha	39865																		13.2651
7	Raising of Plantation	Ha	177211																		64.8635
8	1st Year Maintenance	Ha	45647																		18.3788
9	2nd Year Maintenance	Ha	23187																		7.9239
10	3rd Year Maintenance	Ha	16265																		8.7163
11	4th Year Maintenance	Ha	16265	0.00	34865.17	0.00000															1.4058
12	5th Year Maintenance	Ha	2385	27.50	5112.16	1.40584	0.00	5623.38	0.00000												1.2339
13	6th Year Maintenance	Ha	1903					27.50	4486.85	1.23388	0.00	4935.53	0.00000								1.7011
14	7th Year Maintenance	Ha	2385																		1.4930
15	8th Year Maintenance	Ha	1903																		2.0583
16	9th Year Maintenance	Ha	2385																		1.8065
17	10th Year Maintenance	Ha	1903																		1.33.1542
	Sub Total:																				1.49300 2.05830 1.80653 1.33.1542
																					1.40584 1.23388 1.70107 1.49300 1.80653 0.00000 1.33.1542
																					1.40584 1.23388 1.70107 1.49300 1.80653 0.00000 1.33.1542

- t95

Sl. No	Item of Work	Phy	Unit Cost 2017-18 (Rs.)	2025 - 26			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	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Fin (Rs.in Lakhs)	
III	SMC Works																									3	4.2350
18	Digging of CPT in km	km	140000																							3	0.8319
19	Bund plantation in km	km	25000																							0	0
20	Construction of Percolation Tanks	No	350000																							0	0
21	Construction of Mini Percolation Tanks	No	100000																							0	0
22	Checkdams	No	750000																							0	0
23	Desilting of old percolatin tanks	No	300000																							0	0
24	Staggered trenches(0.45*0.45*1500 RMT/Ha	Cmt																								0	0
25	Digging of borewell with solar panels	No	700000																							5.06688	
	Sub Total				0.00000			0.00000			0.00000			0.00000			0.00000			0.00000			0.00000		15.21357		
IV	Administrative Cost - 10%				0.1406			0.1234			0.1701			0.1493			0.2058			0.1807			0.0000		167.34931		
	Total year wise outlay of the project				1.5464			1.3573			1.8712			1.6423			2.2641			1.9872			0.0000				

Chief Conservator of Forests /
Conservator of Forests
KOTHAGUDEM CIRCLE

DISTRICT FOREST OFFICER
Bhadradri Kothagudem Dist
Kothagudem.

22.12.2017

Forest Divisional Officer,
Paloncha

1359