

Abstract of CA Scheme for 35.155 Ha in Degraded

Forest Divisional Officer,
Paloncha

344039 Hs

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AR WISE DETAIL ED ABSTRACT OF CA SCHEME over 35.155 Ha of Non-Forest Land - formation of various Roads of Paloncha Division

Item of Work	Unit	Unit Cost (Rs.) for 2019-20	2019 - 20			2020 - 21			2021 - 22			2022 - 23			2023 - 24			2024 - 25			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	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)			
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
Tending operations																																												
Singling, Copicing, Bush cleaning		5500				10	6050	0.605	0	6655	0	0	7321	0																														0.6050
TendingTotal					0			0.605			0			0			0		0			0			0			0		0		0			0		0			0			0.6050	
Forest Protection																																												
Construction of boundary pillars	No's	8000	0	8000	0	20	8000	1.500	12	8000	0.960																															32	2.560	
Construction of boundary pillars - Intermediate	No's	800	0	800	0	80	800	0.640	60	800	0.480																															140	1.120	
Construction of Gates	No's	100000	0	100000	0	1	100000	1.000	0	100000	0																															1	1.000	
Fencing - km	km	1500000	0	1500000	0	2	1500000	30.000	2	1500000	30.000																															4	60.000	
Protection Total					0			33.240			31.440			0			0		0			0			0			0		0		0			0		0			0				64.680
SMC Works																																												
SMCTotal					0			0			0			0			0		0			0			0			0		0		0			0		0			0				0
Administrative cost 10% over Core activities					0			0.061			0			0			0		0			0			0			0		0		0			0		0			0				0.0605
Total year wise outlay of the project					0			33.9055			31.440			0			0		0			0			0			0		0		0			0		0			0				65.34550


Forest Divisional Officer
Paloncha

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Compensatory Afforestation Scheme over an area of 35.155 Ha in Compt.No.230 of Kistasagar RF of Paloncha Range of Paloncha Division in lieu of diversion of 34.773 Ha of Forest Land in Bhadrachalam and Yellandu Divisions for formation of (6) Nos. of Roads infavour of Executive Engineer, Bhadradri Kothagudem

1. Introduction:

It is submitted that as per the instructions of the District Forest Officer, Bhadradri Kothagudem has issued instructions to submit the CA Scheme proposals in lieu of diversion of **34.773 Ha** of Forest Land in Bhadrachalam and Yellandu Divisions for formation of (6) Nos. of Roads infavour of Executive Engineer, Bhadradri Kothagudem. The details are as follows.

Sl. No.	Name of the Road	Area in Ha.
1	Errampadu to Battigudem(stretch-4)	2.079
2	Thaliperu dam to Rallapuram and Rallapuram to Battigudem(stretch-1)	7.063
3	Thippapuram to Battigudem (stretch-3)	4.068
4	Uyyalamadugu to Thippapuram (stretch-2)	2.415
5	Thippapuram to Bathinapally via Chennapuram	15.458
6	Yellandu to Gundala(Additional Forest land)	3.69
Total:		34.773

The total extent of CA land towards diversion of Forest Land requisition by the User Agency is 34.773 Ha.

It is further submitted that as per the orders of the District Collector, erstwhile Khammam District vide proceeding Rc.No.E1/1805/2016, Dt:13-06-2016, the Tahasildar, Aswaraopeta and Dammapeta Mandals have handed over the Non-Forest Land to an extent of 62.752 Ha in the following Sy.Nos. of Aswaraopeta and Dammapeta Mandals. The details of the Non-Forest land are as follows.

Table - 1

Sl. No	Name of the Range	Name of the Mandal	Name of the Village	Sy.No.	Non-Forest land handed over by the Tahasildar	
					Ext. in Acres	Extent in Ha
1.	Dammapeta	Aswaraopeta	Boriyala Kunta	153/1	49.00	19.838
2.	Aswaraopeta	Aswaraopeta	Asupaka	227	79.00	31.983
3.	Dammapeta	Dammapeta	Ankampalem	350/1	27.00	10.931
Total:					155.00	62.752

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The above CA lands were identified for (3) Road proposals. The details are as follows in the Table No.2

Sl. No.	Name of the Road	Area in Ha	Remarks
1	Seethanagaram to Kurnapally via Mulakalapally Puligundala (0/0 to 20/0)	27.227	Stage-I approval received
2	R.Kothagudem to Kurnapally Road (0/0 to 11/600)	12.684	Stage-I approval received
	Sub Total:	39.911	
3	Tippapuram to Chennapuram Road (0/0 to 8/0)	20.609	The proposal was withdrawn by the User Agency
	Sub Total:	20.609	
	Grand Total:	60.520	

It is further submitted that, out of (3) Road proposals (1) & (2) Roads were received Stage-I clearance but the (3) i.e., Tippapuram to Chennapuram Road (0/0 to 8/0) was withdrawn by R&B Department.

- The Stage-I approval has been received for the above 1 & 2 Roads, the area for two road proposals is 39.911 Ha. The area handed over to Forest department for 3 road proposals is **62.752 Ha**.
- **Total CA area handed over as shown in Table-1 i.e., 62.752 Ha.**
- **Area allotted for 1 & 2 projects is 39.911 Ha.**
- **The balance area of 22.839 Ha (62.752 - 39.911 = 22.839) is available for allotment to any ongoing projects for Compensatory Afforestation.**

It is further submitted that as per the instructions of the Principal Chief Conservator of Forests, TS, Hyderabad the DGPS survey has been conducted in the month of May, 2019 to the proposed land for notification of Jagannadhapuram Ext-I Forest Block U/s.24 of A.P., Forest Act, 1967 and noticed 35.02 Ha for the following Projects. The details are as shown below.

Table-3

Sl. No.	Name of the Project	Area in Ha	Remarks
1	Tularam Project	8.53	Condition wise compliance report for the (3) projects were submitted by the CF, erstwhile Khammam vide Rc.No.6371/1997/M11, Dt:25.12.2005.
2	Gundlavagu Project	5.65	
3	Kinnerasani Project	8.33	
	Sub-Total:	22.51	

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4	Land Bank area	5.03	Excess area identified after DGPS survey which can be earmarked as CA land for any ongoing projects.
5	Excess area	7.48	
	Sub-Total:	12.51	
	Grand Total:	35.02	

In this regard, the District Collector, Bhadravri Kothagudem has issued revised proceeding vide Rc.No.E1/1805/2016, Dt:04.06.2019 to the entire area to an extent of **35.349 Ha** (22.839 + 12.51 = 35.349) meant for the subject proposals.

It is further submitted that in the reference 3rd cited above, the Principal Chief Conservator of Forests, TS, Hyderabad has informed that the ETS&DGPS/GNSS Survey data for Non-Forest Land has been identified in the following survey Nos. of Asupaka, Tirumalakunta, Ankampalem and Jagannadhapuram Villages of Aswaraopeta, Dammipeta and Mulakalapally Mandals. The details are as shown below.

Table-4:

Sl. No.	Division	Mandal	Villages	Sy.No.	Area in Ha	Non-Forest land for CA pertains to road project
1	Paloncha	Aswaraopeta	Asupaka	227	1.7171	R.Kothagudem to Kurnapally Road
2	Paloncha	Dammipeta	Ankampalem	350	10.927	
		Total:			12.6441	
3	Paloncha	Aswaraopeta	Asupaka	227	3.5521	Thippapuram to Chennapuram
4	Paloncha	Aswaraopeta	Thirumalakunta	153/1	18.5352	
		Total:			22.0873	
5	Paloncha	Aswaraopeta	Asupaka	227	26.9307	Seethanagaram to Kurnapally
6	Paloncha	Mulakalapally	Jagannadhapuram	626/1	34.8266	Various other road project
		Total:			61.7573	
		Grand Total:			96.4887	

Further the Principal Chief Conservator of Forests, TS, Hyderabad has further informed that the User Agency has stated that additionally 35.02 Ha of Non-Forest Land for CA identified in Jagannadhapuram and 12.510 Ha earmarked for the subject proposal. However on verification of DGPS data, the extent of Non-Forest Land is estimated as 34.8266 Ha only. Therefore, the CA land earmarked for the project is 12.51 Ha - 35.02 Ha + 34.8266 Ha = 12.3166 Ha.

The total extent of compensatory afforestation land towards diversion of forest land as per requisition of user agency is 34.773 Ha as per District Collector Proceeding is as follows.

Table-5:

Sl. No.	Name of the Road	Area in Ha.
1	Errampadu to Battigudem(stretch-4)	2.079
2	Thaliperu dam to Rallapuram and Rallapuram to Battigudem(stretch-1)	7.063
3	Thippapuram to Battigudem (stretch-3)	4.068
4	Uyyalamadugu to Thippapuram (stretch-2)	2.415
5	Thippapuram to Bathinapally via Chennapuram	15.458
6	Yellandu to Gundala(Additional Forest land)	3.69
Total:		34.773

It is further submitted that the demand raised for the CA lands given in lieu of diversion of (2) Roads received stage-I clearance out of (3) Roads for all the (3) spots in Table-2 CA Scheme is proposed with present FSR Rates 2019-20.

Hence the revised CA Scheme is proposed as follows.

Table-6:

Sl. No.	Name of the Road	Area in Ha	Remarks
1	Seethanagaram to Kurnapally via Mulakalapally Puligundala (0/0 to 20/0)	27.227	Stage-I approval received the Revised Demand notice has been prepared to an amount of Rs.239.43142 Lakhs basing on the present FSR 2019-20.
2	R.Kothagudem to Kurnapally Road (0/0 to 11/600)	12.684	Stage-I approval received the Revised Demand notice has been prepared to an amount of Rs.138.39938 Lakhs basing on the present FSR 2019-20.
Sub Total:		39.911	
3	Balance area available with Forest Department for CA in Road projects	22.839	The CA Scheme proposals to an extent of 35.155 Ha is prepared with present FSR Rates and submitted herewith
4	Balance area available with Forest Department for Irrigation projects as per DGPS survey	12.3166	
Sub Total:		35.155	
Grand Total:		75.0666	

Hence the balance area available 22.839 Ha was allotted for (3) old projects and in the same location, 12.3166 Ha of excess area allotted for present Road proposals which cannot be physically separately. The CA was proposed for 35.155 Ha (22.839 + 12.3166).

In this connection, it is further submitted that the above Non forest land to an extent of 35.155 Ha (22.839+12.3166 = 35.155 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 take up operations like singling, coppicing and bush clearance along with SMC works. Hence CA scheme is prepared to an amount of Rs. **65.3455** 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. 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. 65.34550 Lakhs.**

The annual requirement of funds have been worked out on the base cost of 2019-20 FSR with 10% annual escalation for the remaining project period up to 2029-30.

The component wise details in brief are as follows.

S. No	Scheme Proposals	Cost in Lakhs
1	Singling, Coppicing, Bush cleaning	0.6050
2	Construction of boundary Pillars	2.560
3	Construction of small pillars at 20 Mtr interval along the periphery	1.120
4	Erection of gates	1.000
5	Erection of chain link fencing	60.000
6	Administrative cost 10% over Core activities	0.0605
	Total:	65.34550

A. Degraded forest lands (DFL) for CA:

1. Introduction:

In addition to that an area of 35.155 Ha is also proposed for CA in degraded forest land in Paloncha Range to meet the requirement of planting 1111 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.	Name of the Range	RF	Section	Beat	Compt. No.	Extent in Ha
1	Paloncha	Kistasagar	Musalimadugu	Cheruvusingaram	230	35.155
				Total:		35.155

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 SCT, Constructions of Check Dam, 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.254.60605 Lakhs.**

Nursery raising and maintenance is proposed in 2019-20 & 2020-21, Advance operations 2020-21 and raising of plantation starts from 2022-23. The annual requirement of funds have been worked out on the base cost of 2019-20 FSR with 10% annual escalation for the remaining project period up to 2031-32.

The component wise details in brief are as follows.


S. No	Scheme Proposals	Cost in Lakhs
1	Raising of Plants in Nurseries & their Maintenance	17.54980
2	Raising of plantations with 10 years of maintenance	204.10925
3	SMC Works	9.8010
4	Administrative Cost - 10%	23.1460
	Total:	254.60605

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

24/10/19