

Compensatory Afforestation Scheme for 3.00 ha in Compartment No.199, RF Malkaram, Beat Gaganpahad, Shamshabad Division in lieu of Diversion of 1.0016 ha of forest land at Kothaguda RF, Chilkur Range for Laying of 220 KV Gachibowli to Erragadda line XLPE UG Cable to proposed Raidurg substation and LILO of 220 KV Gachibowli to Miyapur line XLPE UG Cable to proposed Raidurg substation in favour of TSTRANSCO, Telangana

1. Introduction:

The PCCF(HoFF) has forwarded the proposals which was submitted by User Agency i.e., TSTRANSCO for Diversion of 1.0016 ha including 1.0003 ha of rediversion area of forest land under F©Act,1980 for Laying of 220 KV Gachibowli to Erragadda line (XLPE UG Cable to proposed Raidurg substation and LILO of 220 KV Gachibowli to Miyapur line XLPE UG Cable to proposed Raidurg substation, Chilkur Range, Shamshabad division in favour of TSTRANSCO, Telangana. As per the provisions of the FCAct,1980, F©Rules,2003/2014, guidelines and amendments issued therein compensatory afforestation to be carried out in degraded forest lands for projects involving diversion of forest lands less than 1 ha.

Accordingly, ^{2.00} ha of degraded forest land is identified in Compartment No.199, RF Malkaram, Beat Gaganpahad, Shamshabad Division for raising of compensatory afforestation and the Scheme for raising miscellaneous plantation with 10 years of maintenance at 3m x 2m espacement under Semi Mechanical Method is prepared as per the instructions issued from time-to-time by PCCF(HoFF). The details of the Scheme are as follows:

2. Details of the proposed area:

The proposed areas of Malkaram RF Block are notified under section 4, Telangana Forest Act-I, 1967 vide G.O.Ms.No.260, F&RD (For.III), Dt.21.03.1975

The selected area having gentle slope, accessibility to road and are degraded mainly due to bio-tic interference and are found suitable for Compensatory Afforestation.

The soils are ranging from red sandy loam to sandy loam.

In the proposed degraded Forest area the species available apart from the above, are Musti, Tuniki, Pala, Tedlapala, Billudu, Chundra.

3. Treatment Models:

It is proposed to treat Degraded Forest areas selected for CA under the following Treatment models:

SMC works: CPT all along the boundary of the Compensatory Afforestation area with a twin objective of moisture conservation and boundary demarcation. and staggered contour trenches; with bund planting for strengthening the bunds

Artificial Regeneration: Raising of NTSH plantations with an espacement of 3m x 2m (1666 Nos. of plants per Ha) under AR by adopting Semi Mechanical Methods from 2020-2021 to 2032-2033.

i) Raising of misc. nursery:

The seedlings suitable for soil with (2) year old are to be raised for planting during 2020-21.

ii) Taking up advance operations:

The plantation under this programme is proposed to be raised by adopting Semi Mechanical Method like clearance of NTSH growth during 2021-22.

iii) Raising of plantations:

The planting will be taken in forest land with an espacement of 3m x 2m - 1666 plants/ Ha and Maintenance of plantations upto (10) years as per calendar of operations, with operations like Tilling, deep-soil working, Circular weeding cum deep soil working, watering, removal of weed growth etc.

The cost estimate is prepared as per the FSR, SSR and other current prevailing rates and is as follows:

Sl. No.	Item of work	Amount (in lakhs)
1	Raising of Plants in Nurseries & their Maintenance (or) Procurement of Plants	1.813 1.033
2	Advance operations	1.544 1.037
3	Raising of NTSH plantation at an espacement of 3m x 2m under SMM	2.891 1.920
4	Maintenance of Plantations (one to 10 Years)	7.261 4.848
5	SMC works and protection	14.918
6	Administrative cost	2.843326
	Grand Total:	31.270 26.136

Mode of Execution: It is proposed to implement the above proposals departmentally. Necessary manpower required for effective implementation of the project will be hired through outsourcing.

Project Period:

It is proposed to implement the scheme from 2020-21 to 2032-33


Funding Agency:

The total financial outlay shall be met by the user agency i.e., TSTRANSCO who will deposit the funds with the Forest Department.

Project implementing Agency:

The Forest Divisional Officer, Shamshabad will be the implementing agency for this scheme.

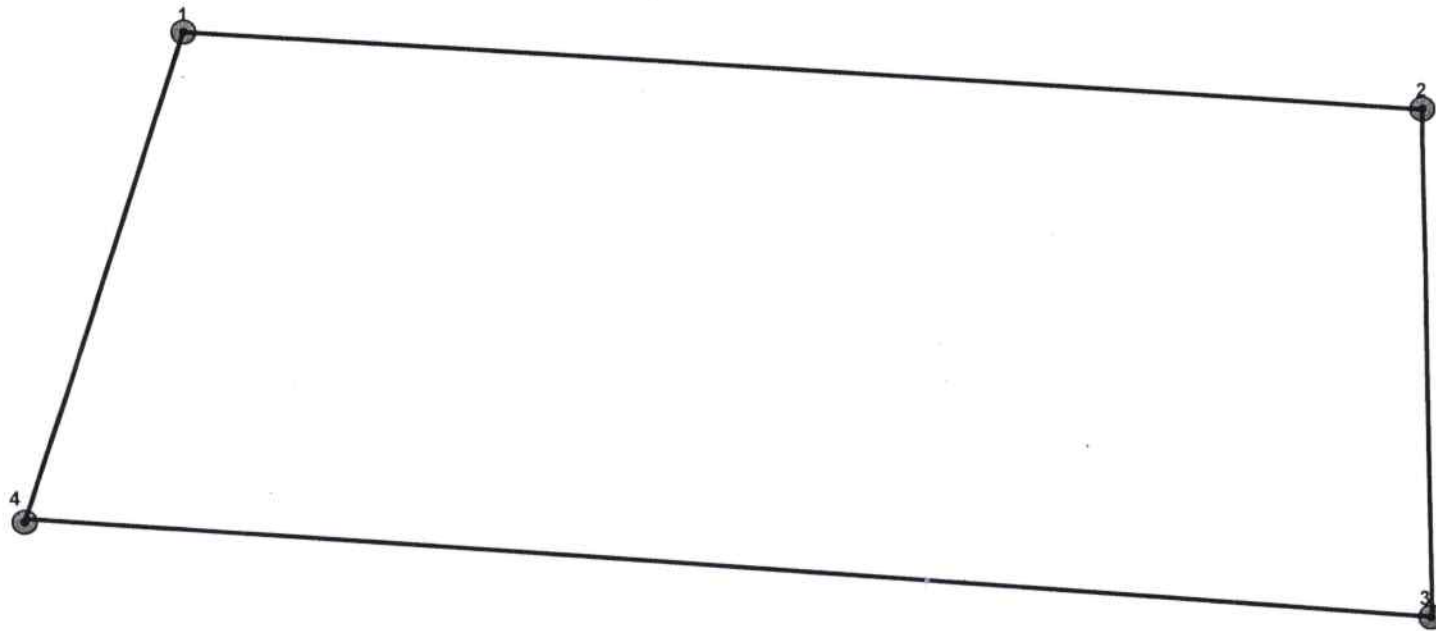

District Forest Officer
@ Rangareddy


Forest Divisional Officer
Shamshabad

SURVEYED SKETCH SHOWING THE PROPOSED 3 HA CA PLANTATION AT MALKARAM RF



Area: 3.30 Ha
Compt. No.199
RF: Malkaram
Beat: Gaganpahad
Section: Shamshabad

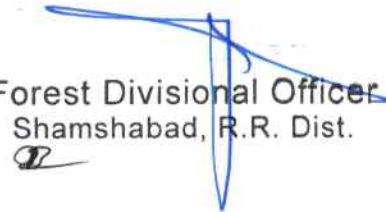


Sl. no	Lat	Long
1	17.23543	78.27213
2	17.23525	78.27463
3	17.23423	78.27464
4	17.23445	78.27180


District Forest Officer
Rangareddy

0.06 0 0.06 0.12 Miles




Forest Divisional Officer
Shamshabad, R.R. Dist.

Compensatory Afforestation Scheme for 3.00 ha in Compartment No. 199, RF Malkaram, Beat Gaganpahad, Shamshabad Division in lieu of Diversion of 1.0016 ha of forest land for cLaying of 220 KV Gachibowli to Erragadda line (XLPE UG Cable to proposed Raidurg substation and LILO of 220 KV Gachibowli to Miyapur line XLPE UG Cable to proposed Raidurg substation, Chilkur Range, Shamshabad division in favour of GHMC, Telangana

Sl. No	Item of Work	Phy	Unit Cost 2019-20 (Rs.)	2020 - 21			2021 - 22			2022 - 23			2023 - 24			2024 - 25			2025 - 26			2026 - 27		
				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
I	Raising of Plants in Nurseries & their Maintenance, Procurement of Plants																							
1	Raising of Primary beds	Plant	0.3857	9000	0.46665	0.04200	0	0.51331	0															
2	Raising of Bag Plants of 4"x7"	Plant	3.8060	9000	4.60531	0.41448	0	5.06584	0															
3	Maintenance of Bag Plants of 4"x7"	Plant	0.9039		1.09376		9000	1.20314	0.10828	0	1.32345	0	0	1.4558	0									
4	Conversion of bag plants from 4"x7" to 6"x12"	Plant	6.5721		7.95228		9000	8.74751	0.78728	0	9.62226	0	0	10.58448	0									
5	Maintenance of Bag Plants of 6"x12"	Plant	3.8496		4.65803			5.12383		9000	5.12383	0.46114	0	5.63621	0	0	6.19983	0						
	Sub Total:					0.45648			0.89556			0.46114			0.00000			0.00000			0.00000			0.00000
II	Planting activities (SMM) in DFL																							
6	Advance Operations	Ha	38680		46803		3.00	51483	1.54449															
7	Raising of Plantation	Ha	65814		79635			87598.43		3.00	96358	2.89075												
8	1st Year Maintenance	Ha	25588		30961			34057.63			37463.39		3.00	41210	1.23629									
9	2nd Year Maintenance	Ha	18837		22793			25072.05			27579.25			30337.18		3.00	33370.89	1.00113						
10	3rd Year Maintenance	Ha	12733		15407			16947.62			18642.39			20506.62			22557.29		3.00	24813.01	0.74439			
11	4th Year Maintenance	Ha	12733		15407			16947.62			18642.39			20506.62			22557.29			24813.01		3.00	27294.32	0.81883
12	5th Year Maintenance	Ha	10761		13020			14322.33			15754.57			17330.02			19063.02			20969.33			23066.26	
13	6th Year Maintenance	Ha	2320		2807			3087.92			3396.71			3736.38			4110.02			4521.02			4973.13	
14	7th Year Maintenance	Ha	10761		13021			14322.89			15755.18			17330.70			19063.77			20970.14			23067.16	
15	8th Year Maintenance	Ha	2320		2807			3087.92			3396.71			3736.38			4110.02			4521.02			4973.13	
16	9th Year Maintenance	Ha	10761		13021			14322.89			15755.18			17330.70			19063.77			20970.14			23067.16	
17	10th Year Maintenance	Ha	2320		2807			3087.92			3396.71			3736.38			4110.02			4521.02			4973.13	
	Sub Total:					0.00000			1.54449			2.89075			1.23629			1.00113			0.74439			0.81883
III	SMC and Protection works																							
18	Cattle proof trenching with bund planting	km	220000		266200		2.1	292820	6.1492															
19	Staggered trenches	Cmt	210		254			280	0.0000	250	307	0.7687		338	0.0000									
20	Formation of Percolation tanks	Cmt					4	200000	8.0000															
	Sub Total					0.00000			14.14922			0.76865			0.00000			0.00000			0.00000			0.00000
IV	Administrative Cost - 10%																							
	Total year wise outlay of the project					0.50212			18.24820			4.53260			1.35992			1.10124			0.81883			0.90071

Compensatory Afforestation Scheme for 2.003 ha in Compartment No. 199, RF Malkaram, Beat Gaganpahad, Shamshabad Division in lieu of Diversion of 1.0016 ha of forest land for Laying of 220 KV Gachibowli to Erragadda line (XLPE UG Cable to proposed Raidurg substation and LILO of 220 KV Gachibowli to Miyapur line XLPE UG Cable to proposed Raidurg substation, Chilukur Range, Shamshabad division in favour of EE, TS TRANSCO

Chikur Range, Shamsabad Division in Forest Department																								
Sl. No	Item of Work	Phy	Unit Cost 2019-20 (Rs.)	2020 - 21			2021 - 22			2022 - 23			2023 - 24			2024 - 25			2025 - 26			2026 - 27		
				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
I	Raising of Plants in Nurseries & their Maintenance, Procurement of Plants																							
1	Raising of Primary beds	Plant	0.3857	5000	0.46665	0.023																		
2	Raising of Bag Plants of 4"x7"	Plant	3.8060	5000	4.60531	0.230																		
3	Maintenance of Bag Plants of 4"x7"	Plant	0.9039				5000	1.20314	0.060															
4	Conversion of bag plants from 4"x7" to 6"x12"	Plant	6.3721				5000	8.74751	0.437															
5	Maintenance of Bag Plants of 6"x12"	Plant	3.8496							5000	5.63621	0.282												
Sub Total:						0.254			0.498			0.282			0.000			0.000			0.000			0.000
II	Planting activities (SMM) in DFL																							
6	Advance Operations	Ha	38680				2.003	51483	1.031															
7	Raising of Plantation	Ha	65814							2.003	96358	1.930												
8	1st Year Maintenance	Ha	25588										2.003	41210	0.825									
9	2nd Year Maintenance	Ha	18837													2.003	33370.89	0.668						
10	3rd Year Maintenance	Ha	12733																2.003	24813.01	0.497			
11	4th Year Maintenance	Ha	12733																			2.003	27294.32	0.547
12	5th Year Maintenance	Ha	10761																					
13	6th Year Maintenance	Ha	2320																					
14	7th Year Maintenance	Ha	10761																					
15	8th Year Maintenance	Ha	2320																					
16	9th Year Maintenance	Ha	10761																					
17	10th Year Maintenance	Ha	2320																					
Sub Total:						0.000			1.031			1.930			0.825			0.668			0.497			0.547
III	SMC and Protection works																							
18	Cattle proof trenching with bund planting	km	220000		266200		2.1	292820	6.149															
19	Staggered trenches	Cmt	210		254			280	0.000	250	307	0.769		338	0.0000									
20	Formation of Pondation tanks	Cmt					4	200000	8.000															0.000
Sub Total:						0.000			14.149			0.769			0.000			0.000			0.000			0.055
IV	Administrative Cost - 10%																							
Total year wise outlay of the project						0.279			17.246			3.279			0.908			0.735			0.547			0.601

Compensatory Afforestation Scheme for
of 220 KV Gachibowli to Erragadda lin

Sl. No	Item of Work	Phy	Unit Cost 2019-20 (Rs.)	2027 - 28			2028 - 29			2029 - 30			2030 - 31			2031 - 32			2032 - 33			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	Fin (Rs.in Lakhs)
1	Raising of Plants in Nurseries & their Maintenance, #			26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1	Raising of Primary beds	Plant	0.3857																				
2	Raising of Bag Plants of 4"x7"	Plant	3.8060																				
3	Maintenance of Bag Plants of 4"x7"	Plant	0.9039																			5000	0.023
4	Conversion of bag plants from 4"x7" to 6"x12"	Plant	6.5721																			5000	0.230
5	Maintenance of Bag Plants of 6"x12"	Plant	3.8496																			5000	0.060
Sub Total:						0.000			0.000			0.000						0.000				5000	0.437
II	Planting activities (SMM) in DFL																			0.000		5000	0.282
6	Advance Operations:	Ha	38680																				
7	Raising of Plantation	Ha	65814																				
8	1st Year Maintenance	Ha	25588																			2.003	1.031
9	2nd Year Maintenance	Ha	18837																			2.003	1.930
10	3rd Year Maintenance	Ha	12733																			2.003	0.825
11	4th Year Maintenance	Ha	12733																			2.003	0.668
12	5th Year Maintenance	Ha	10761	2.003	25372.88	0.508																2.003	0.497
13	6th Year Maintenance	Ha	2320				2.003	6017.48	0.121													2.003	0.547
14	7th Year Maintenance	Ha	10761																			2.003	0.508
15	8th Year Maintenance	Ha	2320							2.003	30702.39	0.615										2.003	0.121
16	9th Year Maintenance	Ha	10761										2.003	7281.15	0.146							2.003	0.615
17	10th Year Maintenance	Ha	2320													2.003	37149.89	0.744				2.003	0.146
Sub Total:						0.508			0.121			0.615			0.146			0.744	2.003	8810.20	0.176	2.003	0.176
III	SMC and Protection works																						
18	Cattle proof trenching with bund planting	km	220000																			0.176	7.809
19	Staggered trenches	Cmt	210																			2.10	6.149
20	Formation of Percolation tanks	Cmt																				250	0.769
Sub Total:						0.000			0.000			0.000			0.000			0.000				4.00	8.000
IV	Administrative Cost - 10%					0.051			0.012			0.061			0.015			0.074			0.000		
Total year wise outlay of the project						0.559			0.133			0.676			0.160			0.819			0.194		26.136