

GOVERNMENT OF TELANGANA
FOREST DEPARTMENT

From:
Sri. G. Mukund Reddy, Dy.C.F.,
District Forest Officer,
Suryapet.

To:
The Prl Chief Conservator of Forests,
(Head of Forest Force)
Telangana State, Aranya Bhavan,
Saifabad, Hyderabad.

Rc.No.1936/2018/S4, Dt.30.07.2020

Sir/ Madam,

Sub : TSFD - FCA - Non- Forest land identified in Different villages of Suryapet District - for Compensatory Afforestation (CA) in lieu of Forest Land for construction of Keshavapuram Reservoir - Instructions issued for collection of NPV and other compensatory levies - report called for - Submission of CA Scheme proposals for identified CA lands - req - Reg.

* * *

It is to submit that, the Prl. Chief Conservator of Forests, TS, Hyderabad had called for the demand notice for collection of Net Present Value (NPV) & Compensatory Levies for diversion of Keshavapuram Reservoir, on report of deposition of NPV and other compensatory levies.

In view of the above, it is submitted that, the demand is prepared as follows:

Sl. No.	Description of Item	Amount to be deposited by the User Agency in Rs.
1	Compensatory Afforestation Levies for raising of CA lands	20,18,19,561.00
Scheme Total		20,18,19,561.00

Around the CA Area Construction of Check Dams, Mini Percolation Tanks, CPT, SCTs, Boundary Pillars and Chain Link Fencing were proposed for protection.

This is submitted for favour of kind perusal and necessary instructions.

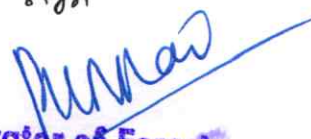
- Encl: 1. CA Schemes proposals (4 Sets)
2. DGPS Surveyed Maps (4 Sets)
3. Soil Suitability Certificates (4 sets)

Yours faithfully


District Forest Officer,
Suryapet.

- Copy submitted to Addl. Prl. Chief Conservator of Forests, FCA, T.S, Hyderabad for favour of kind information.
Copy submitted to Conservator of Forests, Khammam Circle, Khammam for favour of kind information.
Copy submitted to DCF, FCA for favour of kind information.

"Counter Sign"


Conservator of Forests
Khammam Circle

**COMPREHENSIVE SCHEME FOR COMPENSATORY AFFORESTATION SCHEME
INSURYAPET DISTRICT OF Khammam CIRCLE: DIVERSION OF 409.53ha OF
FOREST LAND IN MEDCHAL DIVISION FOR CONSTRUCTION OF 10 TMC
RESERVOIR AT KHESAVAPURAM WITH ASSOCIATED COMPONENTS UNDER
GODAVARI RIVER SOURCE FOR DRINKING WATER REQUIREMENTS TO THE
HYDERABAD CITY OF TELANGANA STATE**

1) INTRODUCTION OF THE SCHEME:-

The General Manager (Engg) Project Division HMWS&SB Hyderabad has submitted the proposals for diversion of 409.53ha forest land in Medchal-Malkajgiri Division for construction of 5.04 TMC Reservoir at Keshvapuram with associated components under Godavari river source for drinking water requirements to the Hyderabad Metropolitan Area. Accordingly, the following Non-forest lands identified for compensatory in Suryapet District:

Name of the District	Name of the Mandal	Name of the Village	Survey No	Area in ha (as per DGPS survey)	Plants can be planted @200/Ha	Plants can be planted @1666/Ha	Total Plants can be planted	Average plants / Ha
Suryapet	Jajireddy gudem	Adivemula	505	120.4766	24,095		24,095	
		Thimmapuram	418	44.3023	8,860		8,860	
		Kasarlpad	312	23.0564	4,611		4,611	
	Suryapet	Ramavaram	78	63.7908	12,758		12,758	
	Chilkur	Chilkur	1151 /2	28.0456	3,209	19,992	23,201	
	Palakeedu	Ravipadu	31	12.1053	2,421		2,421	
		Total		291.7770	55,954	19,992	75,946	260

2). SUITABILITY OF THE AREA:-

An area of 291.7770ha of Non-forest land is identified for CA purpose. The areas are partially hilly and rocky, but having stunted forest growth, with soil patches which are eroded and the top soil is lost. The growth consists mainly of Narlinga (Albizia amara), Moduga (Butea monosperma), Seethaphal (Anona squamosa), Vepa (Azadirachta indica), Pala Kodisa (Wrightia tinctoria), Manga (Randia dumetorum), Teak (Tectona grandis), Tangedu (Cassia auriculata), etc. Hence additional 200 Plants per ha can be planted under BHA/LI method to take up planting activities, except in one Chilkur CA land where in 12 ha planting @1666 plants/ha can be done, and also SMC works like Staggered Contour Trenches, Mini percolation tanks are proposed, besides

boundary protection structure with Boundary Pillars and Chain Link mesh Fencing. The average number of plants that can be planted are 260 plants/ha.

3). SCHEME IMPLEMENTATION AGENCY:

The District Forest Officer, Suryapet will be the project implementation and Monitoring agency and works will be taken up through concerned Forest Range Officers.

For the successful execution of the above mentioned works it requires frequent inspections and close monitoring by the Forest Range Officers and District Forest Officer.

4). MONITORING MECHANISM:

The District Forest Officer, Suryapet and Chief Conservator of Forests, Khammam Circle, Khammam will be closely monitoring the implementation of CA scheme by regular inspection for ensuring proper execution of the work and maintenance of connected records like Plantation and Nursery journals, cash books, Work register, measurement Books, Monthly progress of planting and maintenance, etc., and also submitting the regular work monitoring reports to the Principal Chief Conservator of Forests, TS, Hyderabad and other concerned Senior officers in the Forest Department in Telangana.

5). PERIOD OF THE SCHEME:

Period of the scheme is for (12 years) which includes advance works and raising of plantations and 10 years maintenance commencing from 2022-23 to 2032-33 and nursery raising during 2021-22.

The details of proposed works are given below:

6). BOUNDARY DEMARCATION:

Chain Link Mesh fencing around the periphery is required as the proposed CA lands are isolated blocks surrounded by agriculture lands and hence proposed, with boundary pillars construction.

7). REJUVENATION OF ADDITIONAL CA AREA EQUIVALENT TO FOREST AREA DIVERTED:-

The Government non-forest land 291.7770ha is identified for CA by the User Agency in Suryapet District in lieu of forest land proposed for diversion in Medchal-Malkajgiri Division for construction of 5.04TMC Reservoir at

Keshvapuram with associated components under Godavari river source for drinking water requirements to the Hyderabad Metropolitan Area. The land is partially hilly, Rocky areas, hence planting of 200 Plants per ha is proposed under BHA/LI method for taking up planting activities and also SMC works like Staggered Control Trenches, Rock Fill Dams, Mini percolation tanks, etc., are proposed for the benefit of natural vegetation which is stunted. The cost of the scheme is worked out adopting present FSR of 2019-20. The unit costs and total year wise cost structure of the project is shown in Annexures.

The following is the financial outlay:

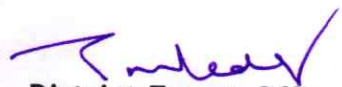
Sl. No.	Item of works	Total outlay	
		Phy.	Fin. In lakhs
I	RAISING OF PLANTATION		
1	Raising and maintenance of Nurseries	130000 Nos	32.06834
2	Advance Operations	291.777 ha	113.46161
3	Raising of Plantation	291.777 ha	98.86693
4	1 st year Maintenance of Plantation	291.777 ha	122.92335
5	2 nd year Maintenance of Plantation	291.777 ha	63.43416
6	3 rd year Maintenance of Plantation	291.777 ha	35.97629
7	4 th year Maintenance of Plantation	291.777 ha	32.26866
8	5 th year Maintenance of Plantation	291.777 ha	17.29967
9	6th year Maintenance of Plantation	291.777 ha	6.71773
10	7th year Maintenance of Plantation	291.777 ha	18.36562
11	8th year Maintenance of Plantation	291.777 ha	8.12845
12	9 TH year maintenance of plantation	291.777 ha	22.22240
13	10 th year maintenance of plantation	291.777 ha	9.83543
II	SMC WORKS		164.15465
III	Chain Link Fencing	24 Km	907.5
IV	Construction of Boundary Pillars	1500 Nos	181.5
V	Administrative Cost (10%) over core activities	Ls	183.47233
	GRAND TOTAL		2018.19561


District Forest Officer,
Suryapet.

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District Forest Officer,
Suryapet.

Compensatory afforestation scheme for 291.777 ha of non-forest CA in Suryapet in lieu of diversion of 409.53 ha under F&A, 1980 for construction of 10 TMC reservoir at Keshavapuram in favour of HMWS&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							
				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			12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
I	Nursery activities (LIM)																				
1	Raising of Primary beds	Plant	0.3341	110000	0.40422	0.44465	20000	0.444647	0.08893												
2	Raising of Bag Plants of 4"x7"	Plant	3.8060	110000	4.60531	5.06584	20000	5.065844	1.01317												
3	Maintenance of Bag Plants of 4"x7"	Plant	0.9039		1.09376		110000	1.20314	1.32345	20000	1.3235	0.26469									
4	Conversion of bag plants from 4"x7" to 6"x12"	Plant	6.5721		7.95228		110000	8.74751	9.62226	20000	9.6223	1.92445									
5	Maintenance of Bag Plants of 6"x12"	Plant	3.6430		4.40804			4.84884		110000	5.33372	5.86710	20000	5.86710	6.45381						
	Sub Total:					5.510			12.048			8.056			6.454			0.000			0.000
II	Planting activities (LIM)																				
6	Advance Operations	Ha	23451	0.00	28375.7	0.00000	279.78	31211.28	87.32758												
7	Raising of Plantation	Ha	20136				0.00	26800.48	0.00000	279.78	29480.53	82.47975									
8	1st Year Maintenance	Ha	23833							0.00	34894.33	0.00000	279.78	38383.77	107.38895						
9	2nd Year Maintenance	Ha	11402										0.00	18363.52	0.00000	279.78	20199.87	56.51459			
10	3rd Year Maintenance	Ha	5807													0.00	10287.99	0.00000	279.78	11316.78	31.66176
11	4th Year Maintenance	Ha	4639																0.00	9040.68	0.00000
12	5th Year Maintenance	Ha	2066																		
13	6th Year Maintenance	Ha	816																		
14	7th Year Maintenance	Ha	1829																		
15	8th Year Maintenance	Ha	816																		
16	9th Year Maintenance	Ha	1829																		
17	10th Year Maintenance	Ha	816																		
	Sub Total:					0.00000			87.32758			82.47975			107.38895			56.51459			31.66176
III	Planting activities (LIM) - 12 ha @ 1666 plants/ha																				
18	Advance Operations	Ha	163624	0.00	197985.0	0.00000	12.00	217783.54	26.13403												
19	Raising of Plantation	Ha	93272				0.00	124145.30	0.00000	12.00	136559.83	16.38718									
20	1st Year Maintenance	Ha	80380							0.00	117684.80	0.00000	12.00	129453.28	15.53439						
21	2nd Year Maintenance	Ha	32549										0.00	52420.97	0.00000	12.00	57663.07	6.91957			
22	3rd Year Maintenance	Ha	18450													0.00	32685.83	0.00000	12.00	35954.42	4.31453
23	4th Year Maintenance	Ha	17282																0.00	33678.31	0.00000
24	5th Year Maintenance	Ha	12964																		
25	6th Year Maintenance	Ha	2551																		
26	7th Year Maintenance	Ha	10992																		
27	8th Year Maintenance	Ha	2551																		
28	9th Year Maintenance	Ha	10992																		
29	10th Year Maintenance	Ha	2551																		
	Sub Total:					0.00000			26.13403			16.38718			15.53439			6.91957			4.31453

Compensatory afforestation scheme for :

Sl. No	Item of Work	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	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	Nursery activities (LIM)																					
1	Raising of Primary beds																					
2	Raising of Bag Plants of 4"x7"																					
3	Maintenance of Bag Plants of 4"x7"																					
4	Conversion of bag plants from 4"x7" to 6"x12"																					
5	Maintenance of Bag Plants of 6"x12"																					
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			32.06834
II	Planting activities (LIM)																					
6	Advance Operations																					
7	Raising of Plantation																					
8	1st Year Maintenance																					
9	2nd Year Maintenance																					
10	3rd Year Maintenance																					
11	4th Year Maintenance	279.78	9944.75	27.8213																		
12	5th Year Maintenance	0.00	4429.30	0.00000	279.78	4872.23	13.63137	279.78	2117.27	5.92364												
13	6th Year Maintenance				0.00	1924.79	0.00000	0.00	4744.73	0.00000	279.78	5219.21	14.60214	279.78	2561.90	7.16760						
14	7th Year Maintenance										0.00	2329.00	0.00000	0.00000	279.78	2561.90	7.16760					
15	8th Year Maintenance														0.00	5741.13	0.00000	6315.24	17.66859			
16	9th Year Maintenance														0.00	2818.09	0.00000	279.78	0.00			
17	10th Year Maintenance																279.78	3099.90	8.67280	279.78		8.67280
	Sub Total:			27.8213			13.63137			5.92364			14.60214			7.16760			17.66859			460.86191
III	Planting activities (LIM) - 12 ha @ 1666 plants/ha																					
18	Advance Operations																					
19	Raising of Plantation																					
20	1st Year Maintenance																					
21	2nd Year Maintenance																					
22	3rd Year Maintenance																					
23	4th Year Maintenance	12.00	37046.14	4.44554																		
24	5th Year Maintenance	0.00	27790.13	0.00000																		
25	6th Year Maintenance																					
26	7th Year Maintenance																					
27	8th Year Maintenance																					
28	9th Year Maintenance																					
29	10th Year Maintenance																					
	Sub Total:			4.44554			3.66830			0.79409			3.76348			0.96085			4.55381			88.53318

Sl. No	Item of Work	2027 - 28		2028 - 29		2029 - 30		2030 - 31		2031- 32		2031- 32		2032-33		Grand Total	
		Phy	Fin (Rs.in Lakhs)	Unit Cost (Rs.)	Phy	Fin (Rs.in Lakhs)	Unit Cost (Rs.)	Phy	Fin (Rs.in Lakhs)	Unit Cost (Rs.)	Phy	Fin (Rs.in Lakhs)	Unit Cost (Rs.)	Phy	Fin (Rs.in Lakhs)	Phy	Fin
III	SMC Works																
30	Digging of CPT in km															15	25.41000
31	Bund plantation in km															15	5.98950
32	Construction of Percolation Tanks															7	18.63400
33	Construction of Mini Percolation Tanks															12	7.98600
34	Staggered trenches															30000	106.13515
	Sub Total:		0.00000		0.00000		0.00000		0.00000		0.00000		0.00000		0.00000		164.15465
IV	Protection																
35	Construction of boundary pillars @20 m interval															1500	181.50000
36	Erection of Chain Link Fencing															25	907.50000
	Sub Total:		0.00000		0.00000		0.00000		0.00000		0.00000		0.00000		0.00000		1089.00000
	Total:		32.26866		17.29967		6.71773		18.36562		8.12845		22.22240		9.83543		1834.72328
			3.22687		1.72997		0.67177		1.83656		0.81285		2.22224		0.98354		183.47233
V	Administrative cost 10%																
	Grand Total		35.49553		19.02964		7.38950		20.20218		8.94130		24.44664		10.81897		2018.19561