

**COMPENSATORY AFFORESTATION SCHEME IN LIEU OF THE FOREST LAND
PROPOSED FOR DIVERSION TO CONSTRUCTION OF S.S.LINK CANAL IN
FAVOUR OF EXECUTIVE ENGINEER, IRRIGATION DEPARTMENT, SSLC&SB
Division No.3, KOTHURU, NELLORE DISTRICT IN CHITTOOR WEST DIVISION
OF CHITTOOR DISTRICT.**

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As per section 3.2 and 3.4 of the Forest (Cons.) Act, 1980, it envisages to raise compensatory afforestation over the extent of equal non-forest land. The Executive Engineer, Irrigation Department, SSLC&SB Division No.3, Kothuru, Nellore District, has proposed for Construction of Somasila Swarnamuki Link Canal duly connecting to Mannasamudram tank near Yerpedu village and other connecting works in Nellore & Chittoor District. The user agency has identified an extent of 52.43 Acres or 21.213 Ha in Sy.No.107 & 109/3 (old Sy.No.85) of Kaigallu village of Baireddipalle Mandal in Chittoor District adjoining to Compt.No.246 & 247 of Thotakanuma RF & Beat, Palamaner Range which is to be transferred for Compensatory Afforestation purpose. The District Collector, Chittoor has issued orders vide Prog. Rc.No. REV-3ic0GLM(LM)/87/2016-JA(3I cell), dt.14.05.2018 & 26.06.2018 for transfer to forest department and the Tahsildar, Baireddipalle Mandal has to transfer and mutate the land in favour of Forest Department as per orders of the District Collector, Chittoor.

The identified Compensatory Afforestation land is situated on river bed of Kaigallu river adjoining to Compt.No. 246 & 247 of Thotakanuma RF & Beat, Palamaner Range and is spreading along the notified RF line Thotakanuma RF as a linear patch. There is a river passing adjoining the area which in turn going in to the same reserved forests at a distance of $\frac{1}{2}$ km. The area is with gentle slope having natural tree growth of more than 5 - 8 mtrs comprising of chigara as dominant species followed by Nerrudi, soap nut etc., and forming in single patche. The drainage is good. Soil depth is also good.

Soils :

The soils are Hard gravelly soils mixed with small size boulders and the soil depth is good. Due to sloppiness ploughing of the area may lead to erosion. Hence ploughing shall be avoided and digging 1 Mtr cum pits with machine after clearing unwanted growth and planting with tall seedlings, duly adding sufficient quantity of Tank Silt, F.Y.M and imported soil, is the suitable method for raising plantation. Soil and moisture conservation works are to be constructed. Fencing is chain link mesh is proposed in this area. The total surveyed area 21.23 Ha and the user agency will transfer the total 21.23 Ha to Forest Department. The effective required area is 21.23 Ha afforestation by following the one mtr Cum pit method.

Technique :

The total of 21.213 Ha area, is proposed under trench cum pit method. The nursery stock raised in 8" x 15" size poly pot or Tall plants in woven socks will be planted in 1.00 cube pits. The area varies between plain to gentle sloppy. Hence this area is suitable for

raising Misc. Plantation by trenches / pits etc., The operations like Boundary demarcation, Singling & Coppices cutting, Soil working and weeding, Fire tracing operations are necessary. Due to river bed the existing and also most top soil is totally eroded, it is proposed to import soil and to refill the planting pit at the time of planting for having to grow good plantation. The plantation will be taken up during the project period and after completion, the area will be tagged on to the adjacent Beat.

The scheme is spreaded over a period of 10 years commencing from 2019-20 to 2029-30 and worked out to a cost of **Rs.122.50 Lakhs.**

The details of scheme proposals for CA Plantation (21.23 Ha) is as follows.

(Rs. in Lakhs)

A)	Erection of chainlink fence in non forest land	16.800
B)	Advance works including Raising of Nursery	20.423
C)	Raising of Misc. Plantation	7.784
D)	1 st year Maint.	9.240
E)	2 nd year Maint.	5.284
F)	3 rd year Maint.	3.351
G)	4 th year Maint.	2.633
H)	5 th year Maint.	2.896
I)	6 th to 10 th year maintenance	20.004
J)	SMC -Const. CC Dams	20.000
K)	Construction of Pillars	4.700
L)	Nursery infrastructure & upgradation	8.200
M)	Contingencies & over heads	1.185

TOTAL : **122.500**

IMPLEMENTING AGENCY:

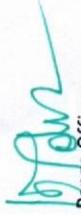
The A.P. Forest Department will take up the responsibility for implementation of the Compensatory Afforestation scheme with the funds deposited by the user agency and the scheme will be monitored by the Prl. Chief Conservator of Forests, Andhra Pradesh, Guntur through its mechanism.

Divisional Forest Officer,
Chittoor West Division, Chittoor.

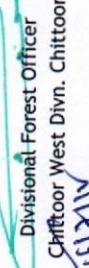
COMPENSATORY AFFORESTATION SCHEME FOR THE AREA PROPOSED FOR DIVERSION IN FAVOUR OF EXECUTIVE ENGINEER, SSLC&SB, Kothuru, Nellore District IN CHITTOOR WEST DIVISION

ABSTRACT CUM YEAR WISE ACTION PLAN

Sl No	Name of the work	Units	2019-20		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		Total	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Total	
1	2	3	6	7	8	9	10	11	12	13	14	15	16	17	16	17	16	17	16	17	16	17	16	17	18	19
I	Raising of Misc. species of tall plant nursery	Nos	0.064	2.112	0.011	0.399																			0.075	2.511
II	Maintenance of Nursery																								0.075	1.105
III	Preliminary/Advance operations	Ha	21.23	17.912																					AOs	17.912
IV	Raising /Treatment of Plantations	Ha			21.23	6.679																			21.23	6.679
V	1st year Maintenance	Ha					21.23	9.240																	Maint.	9.240
VI	2nd year Maintenance	Ha							21.23	5.284															Maint.	5.284
VII	3rd year Maintenance	Ha									21.23	3.351													Maint.	3.351
VIII	4th year Maintenance	Ha										21.23	2.633												Maint.	2.633
IX	5th year Maintenance	Ha											21.23	2.896											Maint.	2.896
X	6th year Maintenance	Ha												21.23	3.277										Maint.	3.277
XI	7th year Maintenance	Ha													21.23	3.604									Maint.	3.604
XII	8th year Maintenance	Ha														21.23	3.965								Maint.	3.965
XIII	9th year Maintenance	Ha															21.23	4.361							Maint.	4.361
XIV	10th year Maintenance	Ha																21.23	4.797						Maint.	4.797
XV	SMC works - Construction of Cement Check Dams across Kaigallu river		1	12.00	1.00	8.00																		2	20.000	
XVI	Fencing & Nursery Infrastructure development/ upgradation		12.500	1	8.00	4.50																			25.000	
XVII	Construction of RCC Cairns along the boundary			60	4.70																				4.700	
XVIII	Project Over heads	LS	0.226	0.292	0.144	0.076	0.069	0.067	0.064	0.063	0.062	0.056	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	LS	1.186	
	TOTAL :		32.750	21.23	33.000	22.060	5.360	3.420	2.700	2.960	3.340	3.660	4.020	4.400	4.830	4.830	4.830	4.830	4.830	4.830	4.830	4.830	4.830	122.500		


Forest Range Officer
Palamamper

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Divisional Forest Officer
Chittoor West Divn. Chittoor
N.S.I.T.I.V

DATA FOR C.A. PLANTATION (MISC. SPECIES - FENCING, ADVANCE OPERATIONS AND RAISING & MAINTENANCES) UNDER PIT METHOD

(DATA PER HA)

Sl No	Description of work	FSR Item	Quantity	Rate	Per	Amount (Rs.)
1	2	3	4	5	6	7
I FENCING :						
1	Erection of Chainlink fence on the boundary of the CA land including cost of stone monoliths including erection, transport and fixing charges etc.,	AS per SSR data	2840 Mts	605	1 Rmt	1718200
	Contingencies and other charges					1800
	TOTAL:					1720000
I NURSERY						
1	Raising of Misc. species of tall plant nursery / purchase of tall plants	As per actuals	260 Nos	45.00	1 each	11700
					Total :	11700
II ADVANCE OPERATIONS:						
1	Survey with GPS	02.01.001		207.85		plantati on 208
2	Site preparation					
	ii) Light Jungle growth	02.01.004	1 ha	5732.43	1 ha	5732
3	Formation of sector lines/ inspection paths to a width of 3 M by giving surface treatment(sector to be in conformity with slope direction).	02.01.006	200 Rmt	5.94	1 Rmt	1188
4	Digging of 1.00 M cube pits (in the gaps only) @ 200 Nos per Ha	RSSR	200 cum	216.37	1 cum	43274
5	SMC works as per circular instructions of PCCF.	RSSR	100 cum	256.19	1 cum	25619
6	Contingencies and other charges					679
					TOTAL	76700
III RAISING						
1	Refilling of pits with imported red soil	RSSR	50 cum	237.09	1 cum	11855
2	Cost and Conveyance of (1/2 cft) 0.014 cum tank silt and mixing with local soil for fixing the plant	02.07.006	200 Nos	565.78	100 Nos	1132
3	Cost and Conveyance of (1/2 cft) 0.014 cum F.Y.Manure and mixing with local soil for fixing the plant	02.07.007	200 Nos	2570.32	100 Nos	5141
4	Cost of Fertilizers and pesticides	02.02.029	LS			
	Super Phosphate / DAP @ 50gm per plant		10 Kgs	As per actuals	25 kg	250
	LINDEN @ 25gm per plant		5 Kgs	As per actuals	20 kg	100
5	Application of Fertilizers and pesticides	02.02.030	200 Nos	38.34	100 Nos	77
6	Transportation of tall plants to a distance of 50 KM of tall plants	02.07.010 & 011	200 Nos	690.78	100 Nos	1382

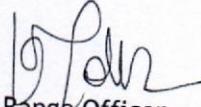
Sl.No	Description of work	FSR Item	Quantity		Rate	Per		Amount (Rs.)
1	2	3	4		5	6		7
7	Internal transport	RSSR	200	Nos	188.13	100	Nos	376
8	Planting with ball of earth, fixing the plant by refilling with dugout soil.	RSSR	200	Nos	12.76	1	Nos	2552
9	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer (Twice)	02-02-040	200	Nos	639.95	100	Nos	2560
10	Watering the plants during non rainy days for 3 months 9 waterings	RSSR	200	Nos	5.68	1	plant	10224
11	Fire Tracing operations to a width of 3M around the plot, sector lines and inspection paths	02.02.048	300	Mts	5.94	1	Mts	1782
12	Watch & ward for 9 months (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	4095.00	1	Nos	4095
	<u>Replacement of caussalities</u>							
18	Re-opening of Pits (0.75 M cube)	Spl. Condition no.10	20	Nos	86.40	1	Nos	1728
19	Transportation of seedlings to a distance of 30 KM of tall plants		20	Nos	658.46	100	Nos	132
20	Internal transport		20	Nos	188.13	100	Nos	38
21	Planting with ball of earth, fixing the plant by refilling with dugout soil.		20	Nos	12.76	1	Nos	255
22	Contingencies							450
							TOTAL	26000
IV 1st YEAR MAINTENANCE								
1	Re-opening of Pits (0.75 M cube)	Spl. Condition no.10	30	Nos	86.40	1	cum	2592
2	Transportation of seedlings to a distance of 30 KM of tall plants		30	Nos	658.46	100	Nos	198
3	Internal transport		30	Nos	188.13	100	Nos	56
4	Planting with ball of earth, fixing the plant by refilling with dugout soil.		30	Nos	12.76	1	Nos	383
5	Cost of Fertilizers		20	ha	25.00	1	kg	500
6	Application of fertilizers and pesticides		200	Nos	38.34	100	Nos	77
7	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer (Twice)	02-02-040	200	Nos	639.95	100	Nos	2560
8	Watering the plants during non rainy days for 3 months 16 waterings	RSSR	200	Nos	5.38	1	plant	17216

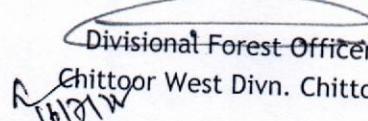
Sl. No	Description of work	FSR Item	Quantity		Rate	Per		Amount (Rs.)
1	2	3	4		5	6		7
9	Fire tracing operations (maintenance)	02.01.22	300	Mts	5.94	1	M	1782
10	Maint. of chainlink fence	LS						1500
11	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	5460.00	1	Nos	5460
12	Contingencies and other Charges							377
TOTAL								32700
V	2nd YEAR MAINTENANCE							
1	Re-opening of Pits	Spl. Condition no.10	10	Nos	86.40	1	cum	864
2	Transportation of seedlings to a distance of 30 KM of tall plants		10	Nos	658.46	100	Nos	66
3	Internal transport		10	Nos	188.13	100	Nos	19
4	Planting with ball of earth, fixing the plant by refilling with dugout soil.		10	Nos	12.76	1	Nos	128
5	Cost of Fertilizers		20	ha	25.00	1	kg	500
6	Application of fertilizers and pesticides		200	Nos	38.34	100	Nos	77
7	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer (Twice)	02-02-040	200	Nos	639.95	100	Nos	2560
8	Watering the plants during non rainy days for 3 months 4waterings	RSSR	200	Nos	5.38	1	plant	4304
9	Fire tracing operations (maintenance)	02.01.22	300	Mts	5.94	1	M	1782
10	Maint. of chainlink fence	LS						1000
11	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	5460.00	1	Nos	5460
12	Contingencies and other Charges							241
TOTAL								17000
VI	3rd Year Maintenance							
1	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer	02-02-040	200	Nos	639.95	100	Nos	1280
2	Fire tracing operations (maintenance)	02.01.22	300	Mts	5.94	1	M	1782
3	Maint. of chainlink fence	LS						1000
4	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	5460.00	1	Nos	5460
7	Contingencies and other Charges							278
							TOTAL	9800

Sl No	Description of work	FSR Item	Quantity	Rate	Per	Amount (Rs.)
1	2	3	4	5	6	7
VII 4th & Subsequent Year Maintenances						
1	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer	02-02-040	200	Nos	639.95	100
2	Fire tracing operations (maintenance)	02.01.22	300	Mts	5.94	1
3	Maint. of chainlink fence	LS				
4	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	2730.00	1
6	Contingencies and other Charges					
						208
						TOTAL 7000

ABSTRACT (PER ha)						
Erectin of Barbed wire fence						
Nursery						1720000
Advance Opeations						11700
Raising						76700
1st Year Maintenance						26000
2nd Year Maintenance						32700
3rd Year Maintenance						17000
4th Year Maintenance						9800
5th Year Maintenance						7000
						7000
						TOTAL 1907900

COUNTERSIGNED


Forest Range Officer,
Palamaner


Divisional Forest Officer
Chittoor West Divn. Chittoor
A. 16/21W