

**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 ½ 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"x15" 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.

ABSTRACT CUM YEAR WISE ACTION PLAN

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Forest Range Officer
Palamaner

Divisional Forest Officer
Chittoor West Divn. Chittoor

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	8	9
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>Replancement 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	Contengencies							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

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Sl No	Description of work	FSR Item	Quantity	Rate	Per	Amount (Rs.)
1	2	3	4	5	6	7
VII	<u>4th & Subsequent Year Maintenances</u>					
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	1280
2	Fire tracing operations (maintenance)	02.01.22	300	Mts	5.94	1782
3	Maint. of chainlink fence	LS				1000
4	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	2730.00	2730
6	Contingencies and other Charges					208
TOTAL						7000

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

COUNTERSIGNED

Divisional Forest Officer
Chittoor West Divn. Chittoor

Forest Range Officer,
Palamaner