

**Raising Compensatory Afforestation Plantation at Vallanadu R.F. in Srivaikundam  
Range of Thoothukudi Division 2018 - 19**

Compensatory Afforestation

Name of species:

Miscellaneous

Area

1 Hectare

No. of seedlings

1600/Hectare

1600

Casualties

160

TOTAL

1760

Size of Polybag

16 x 30

Wages rate

326.5

No.	Name of work	FSR/SSR	Quantity	Man /days	Rate	Per	Amount
<b>NURSERY OPERATION</b>							
1	Cleaning of Nursery Site	4.1	1.76	2.42	790.13	200 Sq.m	6.95
2	Cost of seeds	LR	2		250	1 Kg	500
3	Cost of poly bags Size 16 x 30 x 300g	Tender Rate	1760		1415	1000 Nos	2490
4	Formation of germination bed	PWD SSR	5.28		50.60	1 No.	267
5	Watering the Mother bed Twice daily for 15 days	4.5.1	1.76	0.82	267.73	10 Nos	707
6	Watering the Mother bed once daily for 15days	4.5.2	1.76	0.41	133.865	10 Nos	353
7	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture - 4/5th of the total volume	MTP ME	3.4496		750.00	1 Cu.m	2587
8	Cost and transport of Farm yard manure for filling bags - 1/5th of the total volume	MTP ME	0.85184		750.00	1 Cu.m	639
9	Preparation of soil mixture by breaking clods, seiving, mixing red soil, silt, sand according to requirement and farm yard manure in the ratio 4:1, heaping at the filling site and filling in poly bags, arranging bags in beds and pricking out the seedlings (excluding cost of soil mixture and FYM)	4.6.5	1760	5.95	1942.68	1000 Nos	3419
10	Cost of Vermicasting @ 35 gm per seedlings	Modern Nursery Rate	61.6		10.00	1 Kg	616
11	Cost of VAM @ 15 gm per seedlings		26.4		18.00	1 Kg	475
12	Cost of Azospirillum @ 6 gm per seedlings		10.56		27.00	1 Kg	285
13	Cost of Phosphobacteria @ 6 gm per seedlings		10.56		27.00	1 Kg	285
14	Watering the container plants with rose cans - watering regime as per the TAP ME approved by PCCF						



	a) Twice daily - 10 days	4.10.5	1760	0.37	120.81	1000	Nos	2126
	b) Once daily - 30 days	4.11.5	1760	0.19	60.40			3189
	c) Alternate days - 70 days		1760	0.19	60.40			7442
15	Shifting the container plants, weeding, grading and replacement of casualties in the bags - shifting to done once in 21 days, 1 shifting not before 45 days after pricking out - 5 shifts	4.15.5	1760	0.79	257.94	1000	Nos	2270
16	Nursery protection mazdoor 1 No / 100000 Nos of 16 x 30 cm bags - 210 days	Wages rate	0.0176		326.50	100000	Nos	1207
<b>Planting operation</b>								
17	Aligning and marking of stacking excluding cost of stacks	5.2.1	1600	1.38	450.57	1000	Nos	721
18	Digging of 45 cm pits in plains (Other than hard gravelly soil) during non rainy season	5.5.1	1600	3.87	1263.56	100	Nos	20217
19	Loading & Unloading the container seedlings (16 x 30 cm) in private lorry upto a lead of 2 kms excluding hire charges for the vehicles	5.11.5	1600	1.79	584.44	1000	Nos	935
20	Transport of container seedlings (16 x 30) in private vehicles upto a lead of 10 Kms. Excluding loading and unloading charges @ 2000 / load	L.R.	1600		2840.55	2000	Nos	2272
21	Transport of container seedlings (16 x 30) by head load in the places where approach roads are not available to take vehicles to planting site upto 1 km in plains	5.13.3 (ii)	1600	6	3265.00	1000	Nos	5224
22	Distribution of seedlings in the site C. plants upto 500 mtrs in plains							
	a) upto 100 m.	5.15.1	440	3.13	1021.95	1000	Nos	450
	b) upto 200 m.	5.15.2	440	4.66	1521.49	1000	Nos	669
23	Application of polutry manure @ 250 gm per plant by mixing in the pit before planting including cost & transport	MTP ME	1600		1.25	1	Kg	2000
24	Application of DAP mixure @ 20 gm per plant by mixing in the pit before planting including cost & transport	MTP ME	1600		0.5	1	Kg	800
25	Application of Silt mixture @ 0.027 Cu.m per plant by mixing in the pit before planting including cost and transport	PCCF approved by 2013 - 14	43.2		750	1	Kg	32400




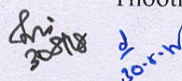
26	Application of FYM mixture @ 0.027 Cu.m per plant by mixing in the bit before planting including cost and transport	PCCF approved by 2013 - 14	43.2		750	1	Kg	32400
27	Application of Neem cake mixture @ 20 gram per plant by mixing in the pit before planting including cost and transport	L.R.	32		40	1	Kg	1280
28	Planting the container plants by refilling pits of size 45 cm	5.21	1600	1.15	375.48	100	Nos	6008
29	Replacement of casualties by reopening failed pits and planting the seedlings	5.23	160	0.58	958.28	100	Nos	1533
30	Weeding and soil work Scraping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil.	5.24	1600	1.23	401.60	100	Nos	6426
31	Watering the plants in the day of planting in the day of planting (one watering) and once in 6 days during March 2017 @ one mazdoor for 200 plants / watering day (6 watering days)	MTP ME	1600		326.5	200	Nos	15672
32	Cost of water @ 15 liters per seedlings (6 watering days) at the rate once in 6 days - (15x1600x6=144000 liters).	MTP ME	144000		1200	12000	Liter	14400
33	Tree guard around the plants		1600		2500	1	No	40000
34	Forming catch water drains for each plants of 90x45x30 cm size in hillocks and hard gravelly soil		1600	6.84	2233.26	100	Nos	35732
35	Contingencies for application of pesticides etc., and unforeseen items such as transporting charges etc.,							1996
	<b>Total</b>						Rs.	<b>250000</b>

Rs 2,50,000/Ha

Project area : .08ha X 2 = 0.16 X 250000

Rs. 40,000/-

  
District Forest Officer,  
Thoothukudi Division,  
Thoothukudi.





**1st year maintainance of Compensatory Afforestation Plantation at Vallanadu R.F. in  
Srivaikundam Range of Thoothukudi Division 2018 - 19**

Compensatory Afforestation

Name of species:

Miscellaneous

Area

1 Hectare

No. of seedlings

1600/Hectare

160

TOTAL

160

Size of Polybag

16 x 30

Wages rate

326.5

No.	Name of work	FSR/SSR Quantity	Man /days	Rate	Per	Amount
<b>NURSERY OPERATION</b>						
1	Cleaning of Nursery Site	4.1	0.16	2.42	790.13	200 Sq.m 0.63
2	Cost of seeds	LR	2		250	1 Kg 500
3	Cost of poly bags Size 16 x 30 x 300g	Tender Rate	160		1415	1000 Nos 226
4	Formation of germination bed	FWD bed	1		50.60	1 No. 51
5	Watering the Mother bed Twice daily for 15 days	4.5.1	0.16	0.82	267.73	10 Nos 64
6	Watering the Mother bed once daily for 15days	4.5.2	0.16	0.41	133.865	10 Nos 32
7	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixure - 4/5th of the total volume	MTP ME	0.3136		750.00	1 Cu.m 235
8	Cost and transport of Farm yard manure for filling bags - 1/5th of the total volume	MTP ME	0.07744		750.00	1 Cu.m 58
9	Filling bags	4.6.5	160	5.95	1942.68	1000 Nos 311
10	Cost of Vermicasting @ 35 gm per seedlings	Modern Nursery Rate	5.6		10.00	1 Kg 56
11	Cost of VAM @ 15 gm per seedlings		2.4		18.00	1 Kg 43
12	Cost of Azospirilum @ 6 gm per seedlings		0.96		27.00	1 Kg 26
13	Cost of Phosphobacteria @ 6 gm per seedligns		0.96		27.00	1 Kg 26
14	Watering the container plants with rose cans - watering regime as per the TAP ME approved by PCCF					






	a) Twice daily - 10 days	4.10.5	160	0.37	120.81	1000	Nos	193
	b) Once daily - 30 days	4.11.5	160	0.185	60.40	1000	Nos	290
	c) Alternate days - 70 days		160	0.185	60.40	1000	Nos	677
15	Shifting the container plants, weeding, grading and replacement of casualties in the bags - shifting to done once in 21 days, 1 shifting not before 45 days after pricking out - 5 shifts	4.15.5	160	0.79	257.94	1000	Nos	206
16	Nursery protection mazdoor 1 No / 100000 Nos of 16 x 30 cm bags - 210 days	Wages rate	0.0016		326.50	100000	Nos	110
<b>Planting operation</b>								
19	Loading & Unloading the container seedlings (16 x 30 cm) in private lorry upto a lead of 2 kms excluding hire charges for the vehicles	5.11.5	160	1.79	584.44	1000	Nos	94
20	Transport of container seedlings (16 x 30) in private vehicles upto a lead of 10 Kms. Excluding loading and unloading charges @ 2000 / load	L.R.	160		2840.55	2000	Nos	227
21	Transport of container seedlings (16 x 30) by head load in the places where approach roads are not available to take vehicles to planting site upto 1 km in plains	5.13.3 (ii)	160	6	3265.00	1000	Nos	522
22	Distribution of seedlings in the site C. plants upto 500 mtrs in plains							
	a) upto 100 m.	5.15.1	80	3.13	1021.95	1000	Nos	82
	b) upto 200 m.	5.15.2	80	4.66	1521.49	1000	Nos	122
23	Application of polutry manure @ 250 gm per plant by mixing in the pit before planting including cost & transport	MTP ME	160		1.25	1	Kg	200
24	Application of DAP mixture @ 20 gm per plant by mixing in the pit before planting including cost & transport	MTP ME	160		0.5	1	Kg	80
25	Application of Silt mixture @ 0.027 Cu.m per plant by mixing in the pit before planting including cost and transport	PCCF approved by 2013 - 14	4.32		750	1	Kg	3240



26	Application of FYM mixture @ 0.027 Cu.m per plant by mixing in the bit before planting including cost and transport	PCCF approved by 2013 - 14	4.32		750	1	Kg	3240
27	Application of Neem cake mixture @ 20 gram per plant by mixing in the pit before planting including cost and transport	L.R.	3.2		40	1	Kg	128
29	Replacement of casualties by reopening failed pits and planting the seedlings	5.23	160	0	958.28	100	Nos	1533
30	Scraping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil.	5.24	1600	1.23	401.60	100	Nos	6426
31	Watering the plants in the day of planting in the day of planting (one watering) and once in 6 days during March 2017 @ one mazdoor for 200	MTP ME	1600		326.5	200	Nos	15672
32	Cost of water @ 15 liters per seedlings (6 watering days) at the rate once in 6 days - (15x1000x6=36000 liters).	MTP ME	144000		1200	12000	Liter	14400
33	Contigencies for application of pesticides etc., and unforeseen items such as transporting charges etc.,							930
<b>Total</b>							Rs.	<b>50000</b>

For 0.16 ha = **Rs. 8000/-**

  
District Forest Officer,  
Thoothukudi Division,  
Thoothukudi.

 30/8/14  
 1/20/14



**Model Estimate for II and V th year maintainace for Compensatory Afforestation Plantation in  
Thoothukudi Division,  
2018--19**

**Scheme : CAMPA**  
**Component RF.**

**Area 1Hectare**  
**No. of seedlings**

1600/Hectare  
1600  
**100**  
**1700**

**Pro rata 26000/Hectare**

**Size of Polybag**

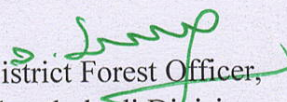
16x30


**Location :**

No.	Quantity	Description of Work	FSR	Man/d	Rate	Per	Amount
1	1600	Watering the plants from wells within the plantation sites a) Daily once - 10 days	7.7	1.33	120.81	1000	1933
2	1600 4	Saucering around the plants 4 Times in a year	7.5	0.036	401.60	100	25702
3		Contingencies photos,boards,etc					365
		<b>Total</b>					<b>28000</b>

Rate per Hectare **28000**

rate for 0.16 ha X 28000 = 4480 X 4 =17920.00

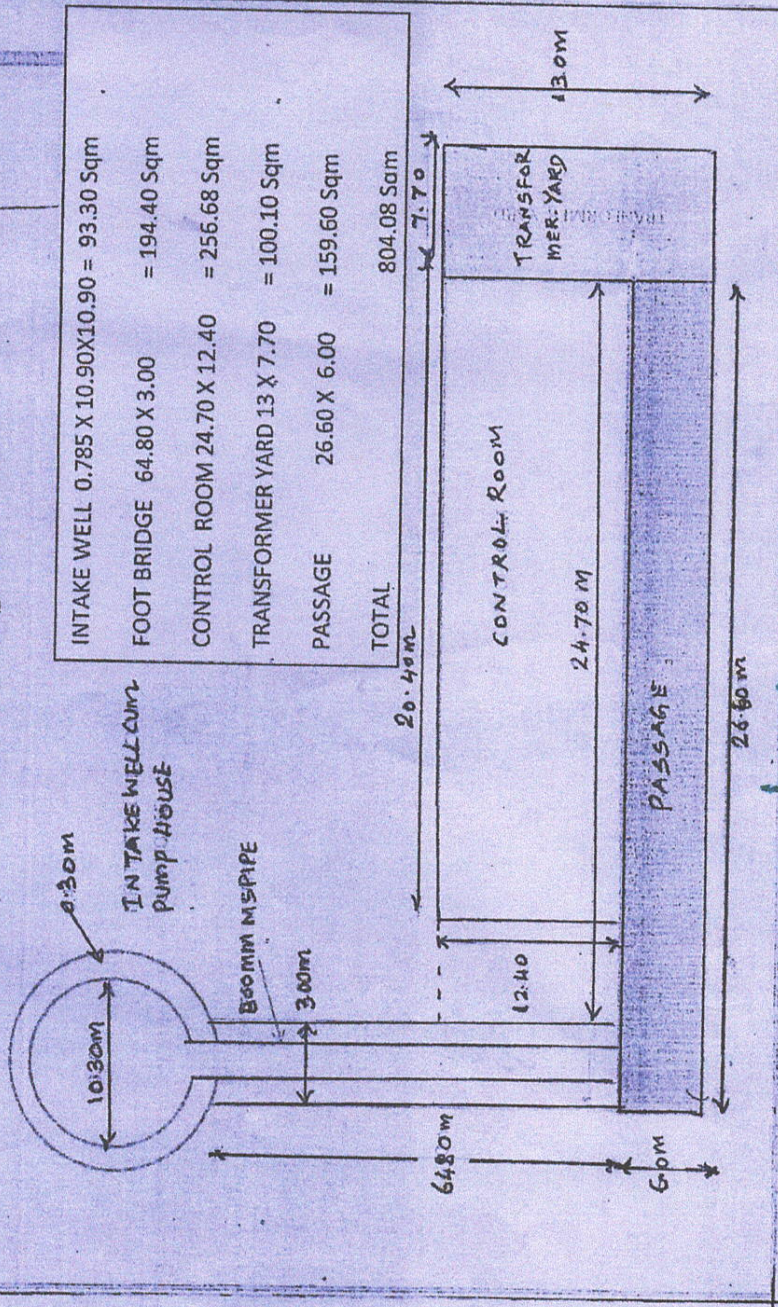
  
District Forest Officer,  
Thoothukudi Division,  
Thoothukudi.

 20-8-14



# 20 MGD WSS HEAD WORKS AT SRIVAIKUNDAM

THAMIRABARANI RIVER



30.3.14

Assistant Executive Engineer  
TWAD BOARD  
Maintenance Sub Division  
Manjalneerkaval

Assistant Engineer  
TWAD Board Maintenance Section  
Manjalneerkaval

Manjalneerkaval

30.3.14

Assistant Executive Engineer  
TWAD BOARD  
Maintenance Sub Division  
Manjalneerkaval

Assistant Engineer  
TWAD Board Maintenance Section  
Manjalneerkaval

Manjalneerkaval