

TAMIL NADU FOREST DEPARTMENT

From

Thiru.Abhishek Tomar, I.F.S.,
District Forest Officer,
Villupuram Forest Division,
Collector Master Plan Complex,
Villupuram.

To

The Principal Chief Conservator of Forests,
Chennai -600 015

(Through The Conservator of Forests,
Villupuram Circle, Villupuram)

C.No.4020/2020/D, Dated: .05.2020

Sir,

Sub.: Forest (Conservation) Act, 1980 - Villupuram Circle / Villupuram Forest Division - Setting up desalination plant at Koonimedu village for combined water supply scheme to Villupuram and Tindivanam Municipalities, 2 town panchayats, 692 rural habitation in 5 unions and Govet. Medical College and Hospital at Forest Mundiampakkam in Villupuram District - Diversion of 16.00 ha of forest area in koonimedi Reserved Land requested - online submission of proposal - Regarding.

- Ref:
1. Online application uploaded by the User Agency - Tamil Nadu Water Supply and Drainage Board Represented by Executive Engineer, TWAD Board, P.F Division. No.3, GST Road, Tindivanam PO, Villipuram District Pin Code:604 001 - Proposal No.FP/TN/Water/42977/2019, Dated.27.12.2019 and resubmission of proposal on 04.02.2020 & 17.02.2020
 2. Principal Chief Conservator of Forests letter No.TS3/61585/2019 Dated.05.03.2020
 3. Part-II Form-A uploaded by the District Forest Officer, Villupuram Division on 10.04.2020
 4. Part -III of Form -A uploaded by the Additional Principal Chief Conservator of Forests, Vellore Circle and Conservator of Forests (i/c) Villupuram Circle on 05.05.2020
 5. The Principal Chief Conservator of Forests, Chennai - 15 C.No.TS3/61585/2019 Dated.20.05.2020

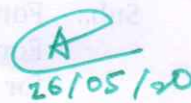
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I submit to state that the details called for in the 5th reference cited is furnished as below

1. CA scheme and site suitability certificate are shown as uploaded in District Forest Officer and Conservator of Forests log in. A copy of suitability certificate and CA scheme is attached here-with in reply to EOS query.

- II. The documents regarding compensatory land have been directly uploaded in the portal by user-agency. The maps have been counter-signed by Forest Range Officer and District Forest Officer in the hard - copies.
- III. Correction has been made.
- IV. It is not possible to edit recommendation now. The period may be considered as 30 years as requested by user agency.
- V. 3 Original Hard -Copies of the complete proposal will be submitted soon.

Yours Faithfully


District Forest Officer,
Villupuram Forest Division,
Villupuram.

Copy Submitted to Conservator Forests, Villupuram Circle, Villupuram

CA Scheme (Bit -I, II, III to the extent of 32.47 Ha Kattalai Village, Karattai Village) for 10 year maintenance work for Diversion of Forest land for Koonimedu A block for Erection desalination plant -60 MLD

Sl.No.	Yearwise Details	Bit -I in Kattalai Village (Area of 7.09 Ha.)	Bit -II Kattalai Village (Area of 14.325 Ha.)	Bit -III Karattai Village (Area of 11.055 Ha.)
1	First Year (2020-21)	1314814	2568315	2007397
2	Second Year (2021-22)	5780226	8426879	4532732
3	Third Year (2022-23)	1224959	2375501	1855475
4	Fourth Year (2023-24)	1726407	2998884	2017712
5	Fifth Year (2024-25)	838541	1584514	1247357
6	Sixth Year (2025-26)	839665	1575815	1243098
7	Seventh Year (2026-27)	1185773	2010270	1367407
8	Eight Year (2027-28)	1028436	1919177	1516589
9	Nineth Year (2028-29)	577770	1006721	812848
10	Tenth Year (2029-30)	235323	302730	272284
11	Eleventh Year (2030-31)	258856	333003	299490
12	Twelfth Year (2031-32)	284741	366303	329439
Total in Rs.		15295512	25488110	17501809
TOTAL AMOUNT (32.47 Ha) IN Lakhs		582.85431		

/ COUNTERSIGNED /

24/05/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.

S. S. S. S.
Forest Range Officer
Tindivanam Range
Tindivanam


CA Scheme (Bit -I 7.09 Ha Kattalai Village) for 10 year maintenance work for Diversion of Forest land for Koonimedu A block for Erection desalination plant -60 MLD				
Sl.No	Year	Work Period	Item of work	Amount in Rs.
1	Ist year	2020-21	RAISING NURSERY	1314814
2	II nd year	2021-22	MAINTENANCE OF NURSERY	151441
3		2021-22	PLANTING WORK	5556980
4		2021-22	10 % RAISING NURSERY DURING 1st YEAR MAINTENANCE	57979
5	III rd Year	2021-22	10% 1st YEAR MAINTENANCE OF NURSERY	13827
6		2022-23	MAINTENANCE WORK DURING 1st YEAR	1181157
7		2022-23	5 % RAISING NURSERY DURING 2nd YEAR MAINTENANCE	36162
8	IVth Year	2022-23	5% 2nd YEAR MAINTENANCE OF NURSERY	7640
9		2023-24	MAINTENANCE WORK DURING 2nd YEAR	1678224
10		2023-24	5 % RAISING NURSERY DURING 3rd YEAR MAINTENANCE	39779
11	Vth Year	2023-24	5% 3rd YEAR MAINTENANCE OF NURSERY	8404
12		2024-25	MAINTENANCE WORK DURING 3rd YEAR	838541
13	VI th Year	2025-26	MAINTENANCE WORK DURING 4th YEAR	839665
14	VII th Year	2026-27	MAINTENANCE WORK DURING 5th YEAR	1185773
15	VIII th Year	2027-28	MAINTENANCE WORK DURING 6th YEAR	1028436
16	IX th Year	2028-29	MAINTENANCE WORK DURING 7th YEAR	577770
17	X th Year	2029-30	MAINTENANCE WORK DURING 8th YEAR	235323
18	XI th Year	2030-31	MAINTENANCE WORK DURING 9th YEAR	258856
19	XII th Year	2031-32	MAINTENANCE WORK DURING 10th YEAR	284741
TOTAL AMOUNT FOR (7.09Ha.) IN Rs.				15295512
TOTAL AMOUNT FOR (7.09 Ha.) IN Lakhs				152.95512

Yearwise Details

Sl No	Year	Amount
1	First Year (2020-21)	1314814
2	Second Year (2021-22)	5780226
3	Third Year (2022-23)	1224959
4	Fourth Year (2023-24)	1726407
5	Fifth Year (2024-25)	838541
6	Sixth Year (2025-26)	839665
7	Seventh Year (2026-27)	1185773
8	Eight Year (2027-28)	1028436
9	Nineth Year (2028-29)	577770
10	Tenth Year (2029-30)	235323
11	Eleventh Year (2030-31)	258856
12	Twelfth Year (2031-32)	284741
Grand Total		15295512
TOTAL AMOUNT FOR (7.09 Ha.) IN Lakhs		152.95512


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


 24/10/20
 District Forest Officer,
 Villupuram Forest Division,
 Villupuram.

**MODEL ESTIMATE FOR RAISING NURSERY AND PLANTING MISCELANEOUS SEEDLINGS IN THE
COMPENSATORY AFFORESTATION 7.09 Ha (Kattalai Village) LAND IN VILUPPURAM FOREST DIVISION
DURING 2020-21**

1. Seedlings required for planting 7090 Nos.
2. Survival of seedlings 7090 Nos.
3. Total Seedlings with Replacement of casualties 7799 Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.4 per/day

(Part -A) Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	7799	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	4422.03
2	7799	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	48509.78
3	184.8363	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	9241.82
4	38854.618	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	196707.33
5	388.55	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	38854.62
6	388.55	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	199959.46
	15	Days					1	
7	388.55	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	199953.64
	30	Days					1	
8	3.900	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythe bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	1949.75
9	0.990	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	495.24
10	0.9905	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	495.24
11	7799	Nos.	Preparation of Soil Mixture by breaking clods, sieving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	11518.73
12	7799	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	6526.20
	10	Days					1	

13	7799	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	9789.30
	30	Days					1	
14	7799	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	9789.30
	30	Days					1	
15	7799	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	2153.62
	2	Times					1	
16	7799	Nos.	Cost of water (10x20)			0.6	1000	327.56
	70	Days						
(Part -B)TRANSPLANTING TO 30X45 BAGS								
17	519.93	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	2632.24
18	80.3983312	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	40199.17
19	20.12142	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	10060.71
20	1.146453	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	573.23
21	7799	Nos.	Preparation of Soil Mixture by breaking clods, siving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (exculding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	93226.83
			Cost of Bio - fertilizers					
22	31.196	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	467.94
23	31.196	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	467.94
24	46.794	Kg.	Cost of VAM @ 6 gm / plant			10	1	467.94
25	62.392	Kg.	Cost of Vermicasting @ 8 gm / plant.			5.5	1	343.16
26	7799	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	32631.02
27	7799	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	18273.06
	10	Days					1	
28	7799	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	27409.59
	30	Days					1	
29	7799	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	27409.59
	30	Days					1	

30	7799	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	27409.59
	30	Days					1	
31	7799		Cost of water (30 x 40)			3.6	1000	2807.64
	100	Days					1	
32	7799	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	52666.65
	6	Times					1	
33	552.9491	m2	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	18800.00
34	1.18	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019 20	Rate arrived for 1000 seedlings	418.40	1	98742.40
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
							Sub Total	1195285
Add 10% escalation for the year 2020-21								1314814

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided.

For item No. 2 local rates has been provided as per.

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20.

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume.

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCF's office for Massive Tree Planting programme during 2019-20.

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate.

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate.

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 : The rates provided in these items are the approved FSI and manday rate as per Forest schedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSI and manday rate as per revised Forest schedule rates 2019-20 (Labour rate Rs.418.40)

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided un TAP ME. provided in this estimate.

Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided un TAP ME.


Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20

District Forest Officer,
Villupuram Forest Division,
Villupuram.


21.3.2020

MODEL ESTIMATE FOR 1st YEAR MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION 7.09 Ha (Kattalai Village) LAND IN VILUPPURAM FOREST DIVISION DURING 2021-22

Size of Bags: 16x30cm 300g

Area in Ha : 7.090

No of Seedlings: 7090 Nos

Casualties 10 %: 709 Nos

Total: 7799 Nos

Wage rate Rs: 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount	
MAINTENANCE OF NURSERY WORK									
1	7799	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	54819.00	
	30	Days					1		
2	7799	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	54819.00	
	30	Days					1		
3	7799	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	15467.00	
	6	times					1		
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals	LS			LS	53.00	
TOTAL									125158
Add 10% escalation for the year 2020-21									137674
Add 10% escalation for the year 2021-22									151441

Specification

For the item no. 1,2,3, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of execution work has been provided



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /

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24/03/20

District Forest Officer,
Villupuram Forest Division,
Villupuram.



27.3.2020

MODEL ESTIMATE FOR RAISING NURSERY AND PLANTING MISCELANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22

Size of Bags: 30x45cm 400g
Area in Ha : 7.090

No of Seedlings: 7090 Nos
Casualties 10 %: 709 Nos
Total: 7799 Nos
Wage rate Rs: 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount	
PLANTING OPERATION									
1	7799	Nos	Transporting saplings (Transported up to 40 Kms)	As per PCCF		5	1	Nos	38995.00
2	7799	Nos	Lodging unloading the Seedlings	5.11.7	3.29	1376.54	1000	Nos	10736.00
3	7799	Nos	Distribution of seedlings in the site container plants upto 100mts in plains	5.15.1	10	4184.00	1000	Nos	32631.00
4	7799	Nos	Digging 60 cm3 pits in all type of soil for CAMPA plantation	5.8.2	7.72	3230.05	100	Nos	251911.00
5	7799	Nos	Digging 20cm circular pits away from the 20cm pits in all type of soil for CAMPA plantation	PWD SSR 2019-20		48.80	1	Cu.m	235967
	4835.38	Cu.m							
6	7799	Nos	Planting the container seedlings plants by refilling the pits of 60 cu.m in plains	5.20	0.7	292.88	100	Nos	22841.71
7	1154.3	Nos	Cost and transport of FYM @ 0.054 cu.m for 60 cu.m pits (1/4 volume)	LR		500.00	1	Nos	577126.00
8	7090	Nos	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil.	5.24	1.23	514.63	100	Nos	36487.00
9	7090	Nos	Forming Catch water drains for each plant in plains 90x45x30cm szh in hard gravelly soils	5.25	6.84	2861.86	100	Nos	202905.59
10	7090	Nos	Watering planted saplings for 4 times per month - 16 watering days (December to March) (4x4 = 16days)	FSR 2019-20	1000 Nos./4 Months	418.40	200 Nos. / Mazdoor / day		237316.48
11	7090	Nos	Cost for water 15 litres per seedling per time for 16 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	Liter	170160.00
12	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS					12309.00
PROTECTION									
13	1	Nos	Engaging Protection mazdoor @ 1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1	1Nos	62760.0
	150	Days							
14	2242	Rm	Creation of barbed wire fencing work around the CA land	As per LQ		1200	1	Rm	2690400.0
15	LS		Contingencies for unforeseen expenditure towards Name board and publicity board fixing etc., unforeseen item if any	LS					10000
Total									4592545
Add 10% escalation for the year 2020-21									5051800
Add 10% escalation for the year 2021-22									5556980

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

SLno. 15: LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tirudivanam Range
Tirudivanam

/ COUNTERSIGNED /


District Forest Officer,
Villupuram Forest Division,
Villupuram.


21.03.2020

MODEL ESTIMATE FOR RAISING NURSERY FOR 10% CASUALTY REPLACEMENT WORK FOR MISCELANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22

1. Seedlings required for planting	709	Nos.
2. Survival of seedlings	709	Nos.
3. Total Seedlings with Replacement of casualties	709	Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	709	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	402.00
2	709	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	4409.98
3	4.2969697	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	214.85
4	116.985	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	592.25
5	1.17	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos	M.E. 2004-05		100	1	116.99
6	1.17	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	602.05
	15	Days					1	
7	1.17	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	602.03
	30	Days					1	
8	7.3089392	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythe bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	3654.47
9	1.82922	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	914.61
10	0.104223	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	52.11
11	709	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	1047.16
12	709	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	593.29
	10	Days					1	

13	709	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	889.94
	30	Days					1	
14	709	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	889.94
	30	Days					1	
15	709	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	195.78
	2	Times					1	
16	709	Nos.	Cost of water (10x20)			0.6	1000	29.78
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	47.27	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	239.29
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	1290.00
20	0.104223	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	52.11
21	709	Nos.	Preparation of Soil Mixture by breaking clods, sieving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (excluding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	8475.17
			Cost of Bio - fertilizers					
22	4	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	60.00
23	2.836	Kg.	Cost of Phospobacteria @ 4 grm / plant			15	1	42.54
24	2.836	Kg.	Cost of VAM @ 6 gm / plant			10	1	28.36
25	4.254	Kg.	Cost of Vermicasting @ 8 gm / plant.			5.5	1	23.40
26	5.672	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	23.73
27	709	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	1661.19
	10	Days					1	
28	709	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2491.78
	30	Days					1	
29	709	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2491.78
	30	Days					1	

30	709	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2491.78
	30	Days					1	
31	709		Cost of water (30 x 40)			3.6	1000	255.24
	100	Days					1	
32	709	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	4787.88
	6	Times					1	
33	5.02681	m ²	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	171.00
34	0.03545	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019- 20	Rate arrived for 1000 seedlings	418.40	1	2966.46
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
							Total	47916
							Add 10% escalation for the year 2020-21	52708
							Add 10% escalation for the year 2021-22	57979

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCP's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 The rates provided in these items are the approved FSL and manday rate as per Forest schedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest schedule rates 2019-20 (Labour rate


Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.

Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME

Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.


24-3-2020

MODEL ESTIMATE FOR 1st YEAR MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22

Size of Bags: 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos

Casualties 10 %: 709 Nos

Total: 7799 Nos

Wage rate Rs 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount	
1ST YEAR MAINTENANCE OF NURSERY FOR 10% CASUALTY REPLACEMENT WORK									
1	709	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	4984.00	
	30	Days					1		
2	709	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	4984.00	
	30	Days					1		
3	709	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	1406.00	
	6	times					1		
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00	
TOTAL									11427
Add 10% escalation for the year 2020-21									12570
Add 10% escalation for the year 2021-22									13827

Specification

For the item no. 1,2,3 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR 1st YEAR MAINTENANCE WORKS AND PLANTING CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

Size of Bags: 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos
Casualties 10 %: 709 Nos
Total: 7799 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	709	Nos.	Transporting saplings (Transported upto 40 Kms.)	As per PCCF. ME.		5	1	3545.00
2	709	Nos.	Distribution of saplings upto 100 Mts.	5.15.1	10	4184	1000	2966.46
3	709	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	1376.54	1000	975.96
4	7090	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	72974.82
5	7090	Nos.	Two Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No E2/19834/02 dated 24.06.02		2	1	14180.00
6	7090	Nos.	Watering planted saplings for 4 times per month = 28 watering days (April to June and December to March) (7x4 = 28 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos / Mazdoor / day	415303.84
7	7090	Nos.	Cost for water 15 litres per seedling per time for 28 watering days (240000 litres)	MIP ME 2017-18	1200	12000	24000	297780
8	709	Nos.	Replacement of casualties	As per Model EST TNRSP-II 2016-17		1824.335	100	12934.54
9	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
10	1S	Days	Contingencies for unforeseen expenditure				1S	4000
Sub Total								887421
Add 10% escalation for the year 2020-21								976163
Add 10% escalation for the year 2021-22								1073779
Add 10% escalation for the year 2022-23								1181157

Specification


For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 10 : 1S Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24103/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.


21-3-2020

MODEL ESTIMATE FOR RAISING NURSERY FOR 2nd YEAR 5% CASUALTY REPLACEMENT WORK FOR MISCELLANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

1. Seedlings required for planting	355	Nos.
2. Survival of seedlings	355	Nos.
3. Total Seedlings with Replacement of casualties	355	Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	355	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	201.00
2	355	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	2204.99
3	2.1484848	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	107.42
4	58.4925	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	296.13
5	0.58	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	58.49
6	0.58	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	301.02
	15	Days					1	
7	0.58	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	301.01
	30	Days					1	
8	3.6544696	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm) Polythe bags upto 4/5 volume 0.5 m ³ /1000	L.R.		500	1	1827.23
9	0.91461	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	L.R.		500	1	457.31
10	0.0521115	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	L.R.		500	1	26.06
11	355	Nos.	Preparation of Soil Mixture by breaking clods, sowing mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	523.58
12	355	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	296.65
	10	Days					1	

13	354.5	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	444.97
	30	Days					1	
14	354.5	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	444.97
	30	Days					1	
15	354.5	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	97.89
	2	Times					1	
16	354.5	Nos.	Cost of water (10x20)			0.6	1000	14.89
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	23.63	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	119.65
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	1290.00
20	0.0521115	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	26.06
21	355	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (exculding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	4237.58
			Cost of Bio - fertilizers					
22	4	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	60.00
23	1.418	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	21.27
24	1.418	Kg.	Cost of VAM @ 6 gm / plant			10	1	14.18
25	2.127	Kg.	Cost of Vermicasting @ 8 gm / plant.			5.5	1	11.70
26	2.836	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	11.87
27	355	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	830.59
	10	Days					1	
28	355	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1245.89
	30	Days					1	
29	355	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1245.89
	30	Days					1	

30	355	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1245.89
	30	Days					1	
31	355		Cost of water (30 x 40)			3.6	1000	127.62
	100	Days					1	
32	355	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	2393.94
	6	Times					1	
33	1.2567025	m2	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	43.00
34	0.017725	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019 20	Rate arrived for 1000 seedlings	418.40	1	1483.23
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Total								27169
Add 10% escalation for the year 2020-21								29886
Add 10% escalation for the year 2021-22								32875
Add 10% escalation for the year 2022-23								36162

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCP's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Reserch wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest schedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest schedule rates 2019-20 (Labour rate

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.

Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME

Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of excution work has been provided.


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


 22/03/20
 District Forest Officer,
 Villupuram Forest Division,
 Villupuram.

MODEL ESTIMATE FOR 2ND YEAR 5% MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

Size of Bags: 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos

Casualties 5 %: 355 Nos

Total: 7445 Nos


Wage rate Rs. 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
1ST YEAR MAINTENANCE OF NURSERY FOR 10% CASUALTY REPLACEMENT WORK								
1	355	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	2492.00
	30	Days					1	
2	355	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	2492.00
	30	Days					1	
3	355	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	703.00
	6	times					1	
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00
TOTAL								5740
Add 10% escalation for the year 2020-21								6314
Add 10% escalation for the year 2021-22								6945
Add 10% escalation for the year 2022-23								7640


Specification

For the item no. 1,2,3 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


 24/03/20
 District Forest Officer,
 Villupuram Forest Division,
 Villupuram.

MODEL ESTIMATE FOR 2nd YEAR MAINTENANCE WORKS AND PLANTING 5% CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2023-24

Size of Bags: 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7990 Nos

Casualties 05 %: 355 Nos

Total: 7445 Nos

Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	355	Nos.	Transporting saplings (Transported upto 40 Kms.)	As per PCCE ME.	-	5	1	1772.50
2	355	Nos.	Distribution of saplings upto 100 Mts.	5.15.1	10	4184	1000	1483.23
3	355	Nos.	Loading and unloading the seedlings	5.11.7	3.29	1376.54	1000	487.98
4	7090	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	72974.82
5	7090	Nos.	Two Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for JCO works in all pecies (Light Growth)	PCCEs No.E2/19834/02 dated 24.06.02		2	1	14180.00
6	7090	Nos.	Watering planted saplings for 4 times per month = 28 watering days (April to June and December to March) (7x4 = 28 days)	FSR 2019-20	1000 Nos./7 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	415303.84
7	7090	Nos.	Cost for water 15 litres per seedling per time for 28 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	297780
8	355	Nos.	Replacement of casualities	As per Model EST TNRSP-II 2016-17		1824.335	100	6467.27
9	1	Nos.	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
	150	Days						
10	2242	Rm	Maintenance work fo barbed wire fencing work around the CA land	As per LQ		120.00	Rm	269040
11		LS	Contingencies for unforeseen expenditure				LS	4000
Sub Total								1146250
Add 10% escalation for the year 2020-21								1260875
Add 10% escalation for the year 2021-22								1386962
Add 10% escalation for the year 2022-23								1525658
Add 10% escalation for the year 2023-24								1678224

Specification

For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 10 : LS Provision for documentation and unforeseen expenditure of excution work has been provided



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR RAISING NURSERY FOR 3rd YEAR 5% CASUALTY REPLACEMENT WORK FOR MISCELLANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2023-24

1. Seedlings required for planting	355	Nos.
2. Survival of seedlings	355	Nos.
3. Total Seedlings with Replacement of casualties	355	Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	355	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	201.00
2	355	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	2204.99
3	2.1484848	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	107.42
4	58.4925	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	296.13
5	0.58	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E 2004-05		100	1	58.49
6	0.58	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	301.02
	15	Days					1	
7	0.58	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	301.01
	30	Days					1	
8	3.6544696	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythe bags upto 4/5 volume 0.5 m ³ /1000	LR.		500	1	1827.23
9	0.91461	M ³	Collection and supply of Farnyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR.		500	1	457.31
10	0.0521115	M ³	Collection and supply of Farnyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR.		500	1	26.06
11	355	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	523.58
12	355	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	296.65
	10	Days					1	

13	354.5	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	444.97
	30	Days					1	
14	354.5	Nos.	Watering container plants once in alternate days with rose can. (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	444.97
	30	Days					1	
15	354.5	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	97.89
	2	Times					1	
16	354.5	Nos.	Cost of water (10x20)			0.6	1000	14.89
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	23.63	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	119.65
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume		LR	500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume		LR	500	1	1290.00
20	0.0521115	M3	Collection and supply of Sand (0.147M3/1000) (30X45)		L.R.	500	1	26.06
21	355	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (exculding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	4237.58
			Cost of Bio - fertilizers					
22	4	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	60.00
23	1.418	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	21.27
24	1.418	Kg.	Cost of VAM @ 6 gm / plant			10	1	14.18
25	2.127	Kg.	Cost of Vermicasting @ 8 gm / plant.			5.5	1	11.70
26	2.836	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	11.87
27	355	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	830.59
	10	Days					1	
28	355	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1245.89
	30	Days					1	
29	355	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1245.89
	30	Days					1	

30	355	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1245.89
	30	Days					1	
31	355		Cost of water (30 x 40)			3.6	1000	127.62
	100	Days					1	
32	355	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	2393.94
	6	Times					1	
33	1.2567025	m2	Land rent for Nursery site	4.17	86.00	86.00	40Sq m	43.00
34	0.017725	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019- 20	Rate arrived for 1000 seedlings	418.40	1	1483.23
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
							Total	27169
							Add 10% escalation for the year 2020-21	29886
							Add 10% escalation for the year 2021-22	32875
							Add 10% escalation for the year 2022-23	36162
							Add 10% escalation for the year 2023-24	39779

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCF's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest schedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest schedule rates 2019-20 (Labour rate

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.

Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME.

Sl.no. 35 : I.S Provision for documentation and unforeseen expenditure of excision work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

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24/03/20

District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR 3rd YEAR 5% MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2023-24

Size of Bags: 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos

Casualties 5 % 355 Nos

Total: 7445 Nos

Wage rate Rs: 418.40

Sl no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount	
1ST YEAR MAINTENANCE OF NURSERY FOR 10% CASUALTY REPLACEMENT WORK									
1	355	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	2492.00	
	30	Days					I		
2	355	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	2492.00	
	30	Days					I		
3	355	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	703.00	
	6	times					I		
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00	
TOTAL									5740
								Add 10% escalation for the year 2020-21	6314
								Add 10% escalation for the year 2021-22	6945
								Add 10% escalation for the year 2022-23	7640
								Add 10% escalation for the year 2023-24	8404

Specification

For the item no. 1,2,3 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

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24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR 3rd YEAR MAINTENANCE WORKS AND PLANTING -5% CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2024-25

Size of Bags: 30x45cm: 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos
Casualties 05 %: 355 Nos
Total: 7445 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Manday & required	Rate	Per	Amt. Rs.
1	355	Nos	Transporting saplings (Transported upto 40 Kms.)	As per PCCE. ME.		5	1	1772.50
2	355	Nos	Distribution of saplings upto 100 Mts	5.15.1	10	4184	1000	1483.23
3	355	Nos	Loading and unloading the seedlings.	5.11.7	3.29	1376.54	1000	487.98
4	7090	Nos	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	72974.82
5	7090	Nos	Two Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	14180.00
6	7090	Nos	Watering planted saplings for 2 times per month =14 watering days (April to June and December to March) (7x2 = 14 days)	FSR 2019-20	1000 Nos./7 Months @ 2times per month	418.40	200 Nos. / Mazdoor / day	207651.92
7	7090	Nos	Cost for water 15 litres per seedling per time for 28 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	148890
8	355	Nos	Replacement of casualities	As per Model EST TNRSP-II 2016-17		1824.335	100	6467.27
9	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays	418.40	1	Nos	62760
	150	Days						
10	LS.		Contingencies for unforeseen expenditure				LS	4000
Sub Total								520668
Add 10% escalation for the year 2020-21								572734
Add 10% escalation for the year 2021-22								630008
Add 10% escalation for the year 2022-23								693009
Add 10% escalation for the year 2023-24								762310
Add 10% escalation for the year 2024-25								838541

Specification

For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

SLNo. 10 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

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24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR 4th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2025-26

Size of Bags 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos

Casualties 10 %: 709 Nos

Total: 7799 Nos

Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	7090	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	36487.27
2	7090	Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No E2/19834/02 dated 24.06.02		2	1	14180.00
3	7090	Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to June and December to March) (7x4 = 14 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor r / day	207651.92
4	7090	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	148890
5	1 150	Nos. Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
6	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								473969
Add 10% escalation for the year 2020-21								521366
Add 10% escalation for the year 2021-22								573503
Add 10% escalation for the year 2022-23								630853
Add 10% escalation for the year 2023-24								693938
Add 10% escalation for the year 2024-25								763332
Add 10% escalation for the year 2025-26								839665

Specification


For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20


Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

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24/02/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.


24/3/2020

MODEL ESTIMATE FOR 5th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2026-27

Size of Bags: 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos
Casualties 10 %: 709 Nos
Total: 7799 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	7090	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	36487.27
2	7090	Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	14180.00
3	7090	Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to june and December to March) (7x2 = 28 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	207651.92
4	7090	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	148890
5	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
	150	Days						
6	2242	Rm.	Mintenance work fo barbed wire fencing work around the CA land	As per LQ		60.00	Rm	134520
7	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								608489
Add 10% escalation for the year 2020-21								669338
Add 10% escalation for the year 2021-22								736272
Add 10% escalation for the year 2022-23								809899
Add 10% escalation for the year 2023-24								890889
Add 10% escalation for the year 2024-25								979978
Add 10% escalation for the year 2025-26								1077976
Add 10% escalation for the year 2026-27								1185773

Specification

For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : I.S Provision for documentation and unforsoen expenditure of excation work has been provided



Forest Range Officer
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District Forest Officer,
Villupuram Forest Division,
Villupuram.

21-3-2020

MODEL ESTIMATE FOR 6th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2027-28

Size of Bags: 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos
Casualties 10 %: 709 Nos
Total: 7799 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	7090	Nos.	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	36487.27
2	7090	Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	14180.00
3	7090	Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to June and December to March) (7x2 = 14 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor r / day	207651.92
4	7090	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	148890
5	1 150	Nos. Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
6	LS		Contingencies for unforeseen expenditure				LS	9804
Sub-Total								479773
Add 10% escalation for the year 2020-21								527751
Add 10% escalation for the year 2021-22								580526
Add 10% escalation for the year 2022-23								638578
Add 10% escalation for the year 2023-24								702436
Add 10% escalation for the year 2024-25								772680
Add 10% escalation for the year 2025-26								849947
Add 10% escalation for the year 2026-27								934942
Add 10% escalation for the year 2027-28								1028436

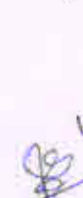
Specification

For the item no. 1,2,3,4,5 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range,
Tindivanam

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24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.
21.3.2020

MODEL ESTIMATE FOR 7th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2028-29

Size of Bags: 30x45cm 400g.

Area in Ha : 7.090

No of Seedlings: 7090 Nos
Casualties 10%: 709 Nos
Total: 7799 Nos
Wage rate Rs: 418.40

SL.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	7090	Nos.	Watering planted saplings for 1 times per month =7 watering days (April to June and December to March) (7x1 = 7 days)	FSR 2019-20	1000 Nos /4 Months @ 4 times per month	418.40	200 Nos / Mazdoor / day	103826
2	7090	Nos.	Cost for water 15 litres per seedling per time for 7 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	74445
3	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays	418.40	1 Nos	62760	
	150	Days						
4	L.S		Contingencies for unforeseen expenditure				L.S	4000
Sub Total								245031
Add 10% escalation for the year 2020-21								269534
Add 10% escalation for the year 2021-22								296487
Add 10% escalation for the year 2022-23								326136
Add 10% escalation for the year 2023-24								358750
Add 10% escalation for the year 2024-25								394625
Add 10% escalation for the year 2025-26								434087
Add 10% escalation for the year 2026-27								477496
Add 10% escalation for the year 2027-28								525246
Add 10% escalation for the year 2028-29								577770

Specification


For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : L.S Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
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24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.


21-3-2026

MODEL ESTIMATE FOR 8th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha
(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2029-30

Size of Bags: 30x45cm 400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos
Casualties 10 %: 709 Nos
Total: 7799 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	7090	Nos.	Watering planted saplings for 1 times per month =1 watering days (April to June and December to March) (1x1 =1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	14832
2	7090	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	10635
3	1 150	Nos. Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
4	LS		Contingencies for unforeseen expenditure				LS	2500
Sub Total								90727
Add 10% escalation for the year 2020-21								99800
Add 10% escalation for the year 2021-22								109780
Add 10% escalation for the year 2022-23								120758
Add 10% escalation for the year 2023-24								132834
Add 10% escalation for the year 2024-25								146117
Add 10% escalation for the year 2025-26								160729
Add 10% escalation for the year 2026-27								176802
Add 10% escalation for the year 2027-28								194482
Add 10% escalation for the year 2028-29								213930
Add 10% escalation for the year 2029-30								235323

Specification

For the item no. 1,2,3,4, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 5 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

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24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


21.3.2020

MODEL ESTIMATE FOR 9th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha
(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2030-31

Size of Bags: 30x45cm-400g

Area in Ha : 7.090

No of Seedlings: 7090 Nos
Casualties 10 %: 709 Nos
Total: 7799 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	7090	Nos.	Watering planted saplings for 1 times per month = 1 watering days (April to June and December to March) (1x1 =1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	14832
2	7090	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	10635
3	1 150	Nos Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
4	LS		Contingencies for unforeseen expenditure				LS	2500
Sub Total								90727
Add 10% escalation for the year 2020-21								99800
Add 10% escalation for the year 2021-22								109780
Add 10% escalation for the year 2022-23								120758
Add 10% escalation for the year 2023-24								132834
Add 10% escalation for the year 2024-25								146117
Add 10% escalation for the year 2025-26								160729
Add 10% escalation for the year 2026-27								176802
Add 10% escalation for the year 2027-28								194482
Add 10% escalation for the year 2028-29								213930
Add 10% escalation for the year 2029-30								235323
Add 10% escalation for the year 2030-31								258856

Specification :


For the item no. 1,2,3,4,5 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided


Forest Range Officer
Tindivanam Range
Tindivanam

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24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


21.3.2020

MODEL ESTIMATE FOR 10th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 7.09 Ha
(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2031-32

Size of Bags: 30x45cm 400g
Area in Ha : 7,090

No of Seedlings: 7090 Nos
Casualties 10 % : 709 Nos
Total : 7799 Nos
Wage rate Rs: 418.40

SL.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	7090	Nos.	Watering planted saplings for 1 times per month =1 watering days (April to June and December to March) (1x1 =1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	14832
2	7090	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	10635
3	1 150	Nos Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
4	LS		Contingencies for unforeseen expenditure				LS	2500
Sub Total								90727
Add 10% escalation for the year 2020-21								99800
Add 10% escalation for the year 2021-22								109780
Add 10% escalation for the year 2022-23								120758
Add 10% escalation for the year 2023-24								132834
Add 10% escalation for the year 2024-25								146117
Add 10% escalation for the year 2025-26								160729
Add 10% escalation for the year 2026-27								176802
Add 10% escalation for the year 2027-28								194482
Add 10% escalation for the year 2028-29								213930
Add 10% escalation for the year 2029-30								235323
Add 10% escalation for the year 2030-31								258856
Add 10% escalation for the year 2031-32								284741

Specification


For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

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21/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


21-3-2020

CA Scheme (Bit-II 14.325 Ha Kattalai Village) for 10 year maintenance work for Diversion of Forest land for Koonimedu A block for Erection desalination plant -60 MLD				
Sl.No	Year	Work Period	Item of work	Amount in Rs.
1	Ist year	2020-21	RAISING NURSERY	2588315
2	II rd year	2021-22	MAINTENANCE OF NURSERY	305915
3		2021-22	PLANTING WORK	7983561
4	III rd Year	2021-22	10 % RAISING NURSERY DURING 1st YEAR MAINTENANCE	109535
5		2021-22	10% 1st YEAR MAINTENANCE OF NURSERY	27869
6		2022-23	MAINTENANCE WORK DURING 1st YEAR	2295795
7	IVth Year	2022-23	5 % RAISING NURSERY DURING 2nd YEAR MAINTENANCE	64342
8		2022-23	5% 2nd YEAR MAINTENANCE OF NURSERY	15364
9	Vth Year	2023-24	MAINTENANCE WORK DURING 2nd YEAR	2911208
10		2023-24	5 % RAISING NURSERY DURING 3rd YEAR MAINTENANCE	70776
11	VI th Year	2023-24	5% 3rd YEAR MAINTENANCE OF NURSERY	16900
12		2024-25	MAINTENANCE WORK DURING 3rd YEAR	1584514
13	VII th Year	2025-26	MAINTENANCE WORK DURING 4th YEAR	1575815
14	VIII th Year	2026-27	MAINTENANCE WORK DURING 5th YEAR	2010270
15	IX th Year	2027-28	MAINTENANCE WORK DURING 6th YEAR	1919177
16	X th Year	2028-29	MAINTENANCE WORK DURING 7th YEAR	1006721
17	XI th Year	2029-30	MAINTENANCE WORK DURING 8th YEAR	302730
18	XII th Year	2030-31	MAINTENANCE WORK DURING 9th YEAR	333003
19		2031-32	MAINTENANCE WORK DURING 10th YEAR	366303
TOTAL AMOUNT FOR (14.325 Ha.) IN Rs.				25488110
TOTAL AMOUNT FOR (14.325 Ha.) IN Lakhs				254.88110

Yearwise Details

Sl No	Year	Amount
1	First Year (2020-21)	2588315
2	Second Year (2021-22)	8426879
3	Third Year (2022-23)	2375501
4	Fourth Year (2023-24)	2998884
5	Fifth Year (2024-25)	1584514
6	Sixth Year (2025-26)	1675815
7	Seventh Year (2026-27)	2010270
8	Eight Year (2027-28)	1919177
9	Nineth Year (2028-29)	1006721
10	Tenth Year (2029-30)	302730
11	Eleventh Year (2030-31)	333003
12	Twelfth Year (2031-32)	366303
Grand Total		25488110
TOTAL AMOUNT FOR (14.325 Ha.) IN Lakhs		254.88110


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.

**MODEL ESTIMATE FOR RAISING NURSERY AND PLANTING MISCELANEOUS SEEDLINGS IN THE
COMPENSATORY AFFORESTATION 14.325 Ha (Kattalai Village) LAND IN VILUPPURAM FOREST DIVISION
DURING 2020-21**

1. Seedlings required for planting	14325	Nos.
2. Survival of seedlings	14325	Nos.
3. Total Seedlings with Replacement of casualties	15758	Nos.
	Size of the Bag	30x45x400G
	FSR Rate for 2019-20	Rs. 418.4 per/day

(Part -A) Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	15758	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	8934.50
2	15758	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	98011.65
3	373.45275	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	18672.64
4	78503.865	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	397437.59
5	785.04	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	78503.87
6	785.04	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	404008.37
	15	Days					1	
7	785.04	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	403996.59
	30	Days					1	
8	7.879	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm) Polythe bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	3939.38
9	2.001	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000(10X20 cm Bag	LR		500	1	1000.60
10	2.0012	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000(10X20 cm Bag	LR		500	1	1000.60
11	15758	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	23273.04
12	15758	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	13185.88
	10	Days					1	

13	15758	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	19778.81
	30	Days					1	
14	15758	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	19778.81
	30	Days					1	
15	15758	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	4351.28
	2	Times					1	
16	15758	Nos.	Cost of water (10x20)			0.6	1000	661.82
	70	Days						
(Part -B)TRANSPLANTING TO 30X45 BAGS								
17	1050.50	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	5318.31
18	162.440916	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume		LR	500	1	81220.46
19	40.65435	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume		LR	500	1	20327.18
20	2.3163525	M3	Collection and supply of Sand (0.147M3/1000) (30X45)		L.R.	500	1	1158.18
21	15758	Nos.	Preparation of Soil Mixture by breaking clods, sieving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (exculding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	188360.27
			Cost of Bio - fertilizers					
22	63.03	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	945.45
23	63.03	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	945.45
24	94.545	Kg.	Cost of VAM @ 6 gm / plant			10	1	945.45
25	126.06	Kg.	Cost of Vermicasting @ 8 gm / plant.			5.5	1	693.33
26	15758	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	65929.38
27	15758	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	36919.82
	10	Days					1	
28	15758	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	55379.73
	30	Days					1	
29	15758	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	55379.73
	30	Days					1	

30	15758	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	55379.73
	30	Days					1	
31	15758		Cost of water (30 x 40)			3.6	1000	5672.70
	100	Days					1	
32	15758	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	106410.40
	6	Times					1	
33	2257.26188	m ²	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	76747.00
34	1.18	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019- 20	Rate arrived for 1000 seedlings	418.40	1	98742.40
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Sub Total								2353013
Add 10% escalation for the year 2020-21								2588315

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCP's office for Massive Tree Planting programme during 2019-20

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest shedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest shedule rates 2019-20 (Labour rate Rs.418.40)


Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME, provided in this estimate.


Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME.

Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


 24/03/20
 District Forest Officer,
 Villupuram Forest Division,
 Villupuram.


 29-03-2020

MODEL ESTIMATE FOR 1st YEAR MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION 14.325 Ha (Kattalai Village) LAND IN VILUPPURAM FOREST DIVISION DURING 2021-22

Size of Bags: 16x30cm 300g

Area in Ha : 14.325

No of Seedlings: 14325 Nos

Casualties 10 %: 1433 Nos

Total: 15758 Nos

Wage rate Rs: 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
MAINTENANCE OF NURSERY WORK								
1	15758	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	110759.00
	30	Days					1	
2	15758	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	110759.00
	30	Days					1	
3	15758	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	31251.00
	6	times					1	
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00
TOTAL								252822
Add 10% escalation for the year 2020-21								278104
Add 10% escalation for the year 2021-22								305915

Specification

For the item no. 1,2,3, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.

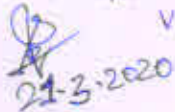


Forest Range Officer
Tindivanam Range
Tindivanam.

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District Forest Officer,
Viluppuram Forest Division,
Viluppuram.



MODEL ESTIMATE FOR RAISING NURSERY AND PLANTING MISCELANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22

Size of Bags: 30x45cm 400g
Area in Ha : 14.325

No of Seedlings: 14325 Nos
Casualties 10 %: 1433 Nos
Total: 15758 Nos
Wage rate Rs: 418.40

Sl no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
PLANTING OPERATION								
1	15758	Nos	Transporting saplings (Transported up to 40 Kms)	As per PCCF		5	1	Nos 78787.50
2	15758	Nos	Loading unloading the Seedlings	5.11.7	3.29	1376.54	1000	Nos 21691.00
3	15758	Nos	Distribution of seedlings in the site container plants upto 100mts in plains	5.15.1	10	4184.00	1000	Nos 65929.00
4	15758	Nos	Digging 60 cm3 pits in all type of soil for CAMPA plantation	5.8.2	7.72	3230.05	100	Nos 508975.00
5	15758	Nos	Digging 20cm circular pits away from the 20cm pits in all type of soil for CAMPA plantation	PWD SSR 2019-20		48.80	1	Cu.m 476759
	9769.65	Cu.m						
6	15758	Nos	Planting the container seedlings plants by refilling the pits of 60 cu.m in plains	5.20	0.7	292.88	100	Nos 46150.57
7	2332.1	Nos	Cost and transport of FYM @ 0.054 cu.m for 60 cu.m pits (1/4 volume)	LR		500.00	1	Nos 1166055.00
8	14325	Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	514.63	100	Nos 73721.00
9	14325	Nos	Forming Catch water drains for each plant in plains 90x45x30cm size in hard gravelly soils	5.25	6.84	2861.86	100	Nos 409960.87
10	14325	Nos	Watering planted saplings for 4 times per month = 16 watering days (December to March) (4x4 = 16days)	FSR 2019-20	1000 Nos./4 Months	418.40	200 Nos. / Mazdoor / day	479486.40
11	14325	Nos	Cost for water 15 litres per seedling per time for 16 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	Litre 343800.00
12	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS				12309.00
PROTECTION								
13	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1	1Nos 62760.0
	150	Days						
14	2368	Rm	Creation of Barbed wire fencing work around the CA land.	As per LQ		1200	1	Rm 2841600.0
15	LS		Contingencies for unforeseen expenditure towards Name board and publicity board fixing etc., unforeseen item if any.	LS				10000
Total								6597984
Add 10% escalation for the year 2020-21								7257783
Add 10% escalation for the year 2021-22								7983561

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

SL no. 15: LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /

24/03/20

District Forest Officer,
Villupuram Forest Division,
Villupuram.

24.03.2020

MODEL ESTIMATE FOR RAISING NURSERY FOR 10% CASUALTY REPLACEMENT WORK FOR MISCELANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22

1. Seedlings required for planting	1433	Nos.
2. Survival of seedlings	1433	Nos.
3. Total Seedlings with Replacement of casualties	1433	Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418,40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	1433	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	812.23
2	1433	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	8910.15
3	8.6818182	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	434.09
4	236.3625	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	1196.62
5	2.36	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	236.36
6	2.36	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	1216.40
	15	Days					1	
7	2.36	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	1216.37
	30	Days					1	
8	14.767356	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythe bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	7383.68
9	3.69585	M ³	Collection and supply of Famyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	1847.93
10	0.2105775	M ³	Collection and supply of Famyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	105.29
11	1433	Nos.	Preparation of Soil Mixture by breaking clods, serving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	2115.73
12	1433	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	1198.72
	10	Days					1	

13	1432.5	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	1798.07
	30	Days					1	
14	1432.5	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	1798.07
	30	Days					1	
15	1432.5	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	395.57
	2	Times					1	
16	1432.5	Nos.	Cost of water (10x20)			0.6	1000	60.17
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	95.50	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos) for 30x45 cm bags	4.1	2.42	1012.53	200	483.48
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	1290.00
20	0.2105775	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	105.29
21	1433	Nos.	Preparation of Soil Mixture by breaking clods, sieving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (excluding the cost of FYM and earth) (30 x 45 Cm) bags	4.6.7	28.57	11953.69	1000	17123.66
Cost of Bio - fertilizers								
22	4	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	60.00
23	5.73	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	85.95
24	5.73	Kg.	Cost of VAM @ 6 gm / plant			10	1	57.30
25	8.595	Kg.	Cost of Vermicasting @ 8 gm / plant			5.5	1	47.27
26	11.46	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	47.95
27	1433	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	3356.35
	10	Days					1	
28	1433	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	5034.52
	30	Days					1	
29	1433	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	5034.52
	30	Days					1	

30	1433	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	5034.52
	30	Days					1	
31	1433		Cost of water (30 x 40)			3.6	1000	515.70
	100	Days					1	
32	1433	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	9673.67
	6	Times					1	
33	20.520563	m ²	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	698.00
34	0.071625	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019- 20	Rate arrived for 1000 seedlings	418.40	1	5993.58
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Total								90525
Add 10% escalation for the year 2020-21								99577
Add 10% escalation for the year 2021-22								109535

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCP's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest shedule rates. 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest shedule rates. 2019-20 (Labour rate

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs. 1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.

Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME.


Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20

District Forest Officer,
Villupuram Forest Division,
Villupuram.


24.03.2020

MODEL ESTIMATE FOR 1st YEAR MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos

Casualties 10 %: 1433 Nos

Total: 15758 Nos

Wage rate Rs: 418.40

Sl no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
1ST YEAR MAINTENANCE OF NURSERY FOR 10% CASUALTY REPLACEMENT WORK								
1	1433	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	10069.00
	30	Days					1	
2	1433	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	10069.00
	30	Days					1	
3	1433	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	2841.00
	6	times					1	
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00
TOTAL								23032
Add 10% escalation for the year 2020-21								25335
Add 10% escalation for the year 2021-22								27869

Specification

For the item no. 1,2,3 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 . LS Provision for documentation and unforeseen expenditure of execution work has been provided.


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


 24/03/20
 District Forest Officer,
 Villupuram Forest Division,
 Villupuram.

MODEL ESTIMATE FOR 1st YEAR MAINTENANCE WORKS AND PLANTING CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos
Casualties 10 %: 1433 Nos
Total: 15758 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	1433	Nos	Transporting saplings (Transported upto 40 Kms.)	As per PCCF ME		5	1	7162.50
2	1433	Nos	Distribution of saplings upto 100 Mts.	5.15.1	10	4184	1000	5993.58
3	1433	Nos	Loading and unloading the seedlings.	5.11.7	3.29	1376.54	1000	1971.89
4	14325	Nos	Scrapping for 1m dia and soil working 15cm depth all over the area cutting and clearing jungle away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	147442.07
5	14325	Nos	Two Slash wooding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	28650.00
6	14325	Nos	Watering planted saplings for 4 times per month = 28 watering days (April to June and December to March) (7x4 = 28 days)	FSR 2019-20	1000 Nos /4 Months @ 4 times per month	418.40	200 Nos / Mazdoor / day	839101.20
7	14325	Nos	Cost for water 15 litres per seedling per time for 28 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	601650
8	1433	Nos	Replacement of casualties	As per Model EST TNRSP-II 2016-17		1824.335	100	26133.60
9	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
10	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								1724865
Add 10% escalation for the year 2020-21								1897351
Add 10% escalation for the year 2021-22								2087086
Add 10% escalation for the year 2022-23								2295795


Specification

For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 10 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


21/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.


21-3-2020

MODEL ESTIMATE FOR RAISING NURSERY FOR 2nd YEAR 5% CASUALTY REPLACEMENT WORK FOR MISCELLANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

1. Seedlings required for planting 716 Nos.
 2. Survival of seedlings 716 Nos.
 3. Total Seedlings with Replacement of casualties 716 Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	716	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	406.11
2	716	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	4455.08
3	4.3409091	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	217.05
4	118.18125	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	598.31
5	1.18	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	118.18
6	1.18	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	608.20
	15	Days					1	
7	1.18	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	608.18
	30	Days					1	
8	7.383678	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythe bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	3691.84
9	1.847925	M ³	Collection and supply of Farnyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	923.96
10	0.1052888	M ³	Collection and supply of Farnyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	52.64
11	716	Nos.	Preparation of Soil Mixture by breaking clods, serving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings. (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	1057.87
12	716	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	599.36
	10	Days					1	

13	716.25	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	899.04
	30	Days					1	
14	716.25	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	899.04
	30	Days					1	
15	716.25	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	197.79
	2	Times					1	
16	716.25	Nos.	Cost of water (10x20)			0.6	1000	30.08
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	47.75	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	241.74
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	1290.00
20	0.1052888	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	52.64
21	716	Nos.	Preparation of Soil Mixture by breaking clods, sieving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth) (30 x 45 Cm bags)	4.6.7	28.57	11953.69	1000	8561.83
			Cost of Bio - fertilizers					
22	4	Kg	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	60.00
23	2.865	Kg	Cost of Phospobacteria @ 4 gm / plant			15	1	42.98
24	2.865	Kg	Cost of VAM @ 6 gm / plant			10	1	28.65
25	4.2975	Kg	Cost of Vermicasting @ 8 gm / plant.			5.5	1	23.64
26	5.73	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	23.97
27	716	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	1678.17
	10	Days					1	
28	716	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2517.26
	30	Days					1	
29	716	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2517.26
	30	Days					1	

30	716	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2517.26
	30	Days					1	
31	716		Cost of water (30 x 40)			3.6	1000	257.85
	100	Days					1	
32	716	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	4836.84
	6	Times					1	
33	5.1301406	m2	Land rent for Nursery site	4.17	86.00	86.00	40Sq m	174.00
34	0.0358125	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019 20	Rate arrived for 1000 seedlings	418.40	1	2996.79
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Total								48341
Add 10% escalation for the year 2020-21								53175
Add 10% escalation for the year 2021-22								58493
Add 10% escalation for the year 2022-23								64342

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCF's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no 23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest schedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest schedule rates 2019-20 (Labour rate

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.

Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME

Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of excision work has been provided.


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


 24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR 2ND YEAR 5% MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos

Casualties 5 %: 716 Nos

Total: 15041 Nos

Wage rate Rs: 418.40

Sl no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
1ST YEAR MAINTENANCE OF NURSERY FOR 10% CASUALTY REPLACEMENT WORK								
1	716	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	5035.00
	30	Days					1	
2	716	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	5035.00
	30	Days					1	
3	716	Nos.	Shifting the container plants, weeding, grading and replacement of casualities in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	1420.00
	6	times					1	
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00
TOTAL								11543
Add 10% escalation for the year 2020-21								12697
Add 10% escalation for the year 2021-22								13967
Add 10% escalation for the year 2022-23								15364

Specification

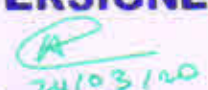
For the item no. 1,2,3 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 - LS Provision for documentation and unforeseen expenditure of excution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


 District Forest Officer,
 Villupuram Forest Division,
 Villupuram.

MODEL ESTIMATE FOR 2nd YEAR MAINTENANCE WORKS AND PLANTING 5% CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2023-24

Size of Bags: 30x45cm 400g

Area in Ha : 14.325


No of Seedlings: 14325 Nos
Casualties 05 %: 716 Nos
Total: 15041 Nos
Wage rate Rs: 418.40

SLNo.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	716	Nos.	Transporting saplings (Transported upto 40 Kms.)	As per PCCF ME		5	1	3581.25
2	716	Nos.	Distribution of saplings upto 100 Mts.	5.15.1	10	4184	1000	2996.79
3	716	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	1376.54	1000	985.94
4	14325	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	147442.07
5	14325	Nos.	Two Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ECO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	28650.00
6	14325	Nos.	Watering planted saplings for 4 times per month = 28 watering days (April to June and December to March) (7x4 = 28 days)	FSR 2019-20	1000 Nos./7 Months @ 4 times per month	418.40	200 Nos / Mazdoor / day	839101.20
7	14325	Nos.	Cost for water 15 litres per seedling per time for 28 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	601650
8	716	Nos.	Replacement of casualties	As per Model EST TNRSP-II 2016-17		1824.335	100	13066.80
9	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
	150	Days						
10	2368	Rm	Maintenance work for barbed wire fencing work around the CA land	As per LQ		120.00	Rm	284160
11		LS	Contingencies for unforeseen expenditure				LS	4000
Sub Total								1988394
Add 10% escalation for the year 2020-21								2187233
Add 10% escalation for the year 2021-22								2405957
Add 10% escalation for the year 2022-23								2646552
Add 10% escalation for the year 2023-24								2911208

Specification

For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 10 /LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR RAISING NURSERY FOR 2nd YEAR 5% CASUALTY REPLACEMENT WORK FOR MISCELLANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2023-24

1. Seedlings required for planting	716	Nos.
2. Survival of seedlings	716	Nos.
3. Total Seedlings with Replacement of casualties	716	Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	716	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	406.11
2	716	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	4455.08
3	4.3409091	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	217.05
4	118.18125	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	598.31
5	1.18	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	118.18
6	1.18	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	608.20
	15	Days					1	
7	1.18	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	608.18
	30	Days					1	
8	7.383678	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythene bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	3691.84
9	1.847925	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	923.96
10	0.1052888	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	52.64
11	716	Nos.	Preparation of Soil Mixture by breaking clods, sieving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	1057.87
12	716	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	599.36
	10	Days					1	

13	716.25	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	899.04
	30	Days					1	
14	716.25	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	899.04
	30	Days					1	
15	716.25	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	197.79
	2	Times					1	
16	716.25	Nos.	Cost of water (10x20)			0.6	1000	30.08
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	47.75	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	241.74
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	1290.00
20	0.1052888	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	52.64
21	716	Nos.	Preparation of Soil Mixture by breaking clods, serving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (exculding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	8561.83
			Cost of Bio - fertilizers					
22	4	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	60.00
23	2.865	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	42.98
24	2.865	Kg.	Cost of VAM @ 6 gm / plant			10	1	28.65
25	4.2975	Kg.	Cost of Vermicasting @ 8 gm / plant			5.5	1	23.64
26	5.73	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	23.97
27	716	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	1678.17
	10	Days					1	
28	716	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2517.26
	30	Days					1	
29	716	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2517.26
	30	Days					1	

30	716	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	2517.26
	30	Days					1	
31	716		Cost of water (30 x 40)			3.6	1000	257.85
	100	Days					1	
32	716	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	4836.84
	6	Times					1	
33	5.1301406	m2	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	174.00
34	0.0358125	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019- 20	Rate arrived for 1000 seedlings	418.40	1	2996.79
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Total								48341
Add 10% escalation for the year 2020-21								53175
Add 10% escalation for the year 2021-22								58493
Add 10% escalation for the year 2022-23								64342
Add 10% escalation for the year 2023-24								70776

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCP's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest shedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest shedule rates, 2019-20 (Labour rate

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.

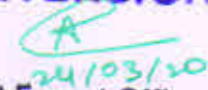
Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME

Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


**District Forest Officer,
Villupuram Forest Division,
Villupuram.**

MODEL ESTIMATE FOR 3rd YEAR MAINTENANCE WORKS AND PLANTING 5% CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha(Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2024-25

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos
Casualties 05%: 716 Nos
Total: 15041 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	716	Nos	Transporting saplings (Transported upto 40 Kms.)	As per PCCF. ME		5	1	3581.25
2	716	Nos	Distribution of saplings upto 100 Mts.	5.15.1	10	4184	1000	2996.79
3	716	Nos	Loading and unloading the seedlings.	5.11.7	3.29	1376.54	1000	985.94
4	14325	Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	147442.07
5	14325	Nos	Two Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.52/19834/02 dated 24.06.02		2	1	28650.00
6	14325	Nos	Watering planted saplings for 2 times per month =14 watering days (April to June and December to March) (7x2 = 14 days)	FSR 2019-20	1000 Nos./7 Months @ 2times per month	418.40	200 Nos. / Mazdoor / day	419550.60
7	14325	Nos	Cost for water 15 litres per seedling per time for 28 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	300825
8	716	Nos	Replacement of casualities	As per Model EST TNRSP-II 2016- 17		1824.335	100	13066.80
9	1	Nos	Engaging Protection mazdoor @1 Mazdoor from	As per FSR Mandays		418.40	1 Nos	62760
	150	Days	October to March @25 days/Month					
10	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								983858
Add 10% escalation for the year 2020-21								1082244
Add 10% escalation for the year 2021-22								1190469
Add 10% escalation for the year 2022-23								1309516
Add 10% escalation for the year 2023-24								1440467
Add 10% escalation for the year 2024-25								1584514

Specification

For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 10 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/10/2024
District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR 4th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2025-26

Size of Bags 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos

Casualties 10 %: 1433 Nos

Total: 15758 Nos

Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	14325	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	73720.75
2	14325	Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	28650.00
3	14325	Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to June and December to March) (7x4 = 14 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor r/ day	419550.60
4	14325	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	300825
5	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
	150	Days						
6	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								889506
Add 10% escalation for the year 2020-21								978457
Add 10% escalation for the year 2021-22								1076303
Add 10% escalation for the year 2022-23								1183933
Add 10% escalation for the year 2023-24								1302326
Add 10% escalation for the year 2024-25								1432559
Add 10% escalation for the year 2025-26								1575815


Specification


For the item no, 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


24-3-2020

MODEL ESTIMATE FOR 5th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2026-27

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos

Casualties 10 %: 1433 Nos

Total: 15758 Nos

Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	14325	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	73720.75
2	14325	Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	28650.00
3	14325	Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to June and December to March) (7x2 = 28 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	419550.60
4	14325	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	300825
5	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays	418.40	1 Nos	62760	
	150	Days						
6	2368	Rm	Mintenance work fo barbed wire fencing work around the CA land	As per LQ	60.00	Rm	142080	
7	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								1031586
Add 10% escalation for the year 2020-21								1134745
Add 10% escalation for the year 2021-22								1248219
Add 10% escalation for the year 2022-23								1373041
Add 10% escalation for the year 2023-24								1510346
Add 10% escalation for the year 2024-25								1661380
Add 10% escalation for the year 2025-26								1827518
Add 10% escalation for the year 2026-27								2010270

Specification

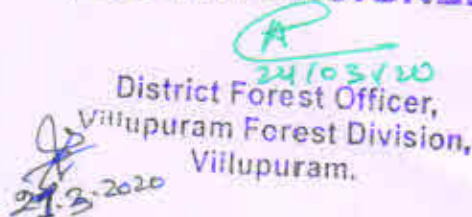
For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of excution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam.

/ COUNTERSIGNED /


District Forest Officer,
Viluppuram Forest Division,
Viluppuram.
21.3.2020

**MODEL ESTIMATE FOR 6th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND
14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2027-28**

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos

Casualties 10 %: 1433 Nos

Total: 15758 Nos

Wage rate Rs: 418.40

SL.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	14325	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	73720.75
2	14325	Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	28650.00
3	14325	Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to June and December to March) (7x2 = 14 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor r / day	419550.60
4	14325	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	300825
5	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays	1200	418.40	1 Nos	62760
	150	Days						
6	LS		Contingencies for unforeseen expenditure				LS	9804
Sub Total								895310
Add 10% escalation for the year 2020-21								984841
Add 10% escalation for the year 2021-22								1083326
Add 10% escalation for the year 2022-23								1191658
Add 10% escalation for the year 2023-24								1310824
Add 10% escalation for the year 2024-25								1441906
Add 10% escalation for the year 2025-26								1586097
Add 10% escalation for the year 2026-27								1744707
Add 10% escalation for the year 2027-28								1919177


Specification

For the item no. 1,2,3,4,5 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


 Forest Range Officer
 Tiruvivanam Range
 Tiruvivanam

/ COUNTERSIGNED /


 District Forest Officer,
 Villuppuram Forest Division,
 Villuppuram.
 21.3.2020

MODEL ESTIMATE FOR 7th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2028-29

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos
Casualties 10 %: 1435 Nos
Total: 15758 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	14325	Nos.	Watering planted saplings for 1 times per month =7 watering days (April to June and December to March) (7x1 = 7 days)	FSR: 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos / Mazdoor / day	209775
2	14325	Nos.	Cost for water 15 litres per seedling per time for 7 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	150412.5
3	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
	150	Days						
4	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								426948
Add 10% escalation for the year 2020-21								469643
Add 10% escalation for the year 2021-22								516607
Add 10% escalation for the year 2022-23								568268
Add 10% escalation for the year 2023-24								625094
Add 10% escalation for the year 2024-25								687604
Add 10% escalation for the year 2025-26								756364
Add 10% escalation for the year 2026-27								832000
Add 10% escalation for the year 2027-28								915201
Add 10% escalation for the year 2028-29								1006721

Specification:


For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


21.3.2020

MODEL ESTIMATE FOR 8th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2029-30

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos
Casualties 10 %: 1433 Nos
Total: 15758 Nos
Wage rate Rs. 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	14325	Nos.	Watering planted saplings for 1 times per month = 1 watering days (April to June and December to March) (1x1 = 1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	29968
2	14325	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	21487.5
3	1	Nos	Engaging Protection mazdoor @ 1 Mazdoor from October to March @ 25 days/Month	As per FSR Mandays	418.40	1 Nos	62760	
	150	Days						
4	LS		Contingencies for unforeseen expenditure				LS	2500
Sub Total								116715
Add 10% escalation for the year 2020-21								128387
Add 10% escalation for the year 2021-22								141226
Add 10% escalation for the year 2022-23								155348
Add 10% escalation for the year 2023-24								170883
Add 10% escalation for the year 2024-25								187971
Add 10% escalation for the year 2025-26								206768
Add 10% escalation for the year 2026-27								227445
Add 10% escalation for the year 2027-28								250190
Add 10% escalation for the year 2028-29								275209
Add 10% escalation for the year 2029-30								302730

Specification


For the item no. 1,2,3,4, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 5 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.


21.3.2020

MODEL ESTIMATE FOR 9th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2030-31

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos
Casualties 10 %: 1433 Nos
Total: 15758 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	14325	Nos.	Watering planted saplings for 1 times per month =1 watering days (April to June and December to March) (1x1 =1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	29968
2	14325	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP-ME 2017-18	1200	12000	24000	21487.5
3	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays	418.40	1 Nos	62760	
	150	Days						
4	LS		Contingencies for unforeseen expenditure				LS	2500
Sub Total								116715
Add 10% escalation for the year 2020-21								128387
Add 10% escalation for the year 2021-22								141226
Add 10% escalation for the year 2022-23								155348
Add 10% escalation for the year 2023-24								170883
Add 10% escalation for the year 2024-25								187971
Add 10% escalation for the year 2025-26								206768
Add 10% escalation for the year 2026-27								227445
Add 10% escalation for the year 2027-28								250190
Add 10% escalation for the year 2028-29								275209
Add 10% escalation for the year 2029-30								302730
Add 10% escalation for the year 2030-31								333003

Specification

For the item no. 1,2,3,4,5 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


24.3.2020

MODEL ESTIMATE FOR 10th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 14.325 Ha (Kattalai Village) IN VILUPPURAM FOREST DIVISION DURING 2031-32

Size of Bags: 30x45cm 400g

Area in Ha : 14.325

No of Seedlings: 14325 Nos
Casualties 10 %: 1433 Nos
Total: 15758 Nos
Wage rate Rs: 418.40

SL.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.	
1	14325	Nos.	Watering planted saplings for 1 times per month =1 watering days (April to June and December to March) (1x1 =1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	29968	
2	14325	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	21487.5	
3	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays	418.40	1 Nos		62760	
	150	Days							
4	LS		Contingencies for unforeseen expenditure				LS	2500	
Sub Total								116715	
								Add 10% escalation for the year 2020-21	128387
								Add 10% escalation for the year 2021-22	141226
								Add 10% escalation for the year 2022-23	155348
								Add 10% escalation for the year 2023-24	170883
								Add 10% escalation for the year 2024-25	187971
								Add 10% escalation for the year 2025-26	206768
								Add 10% escalation for the year 2026-27	227445
								Add 10% escalation for the year 2027-28	250190
								Add 10% escalation for the year 2028-29	275209
								Add 10% escalation for the year 2029-30	302730
								Add 10% escalation for the year 2030-31	333003
								Add 10% escalation for the year 2031-32	366303

Specification


For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

SL.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


21.3.2020


CA Scheme Bit-III (11.055 Ha Karattai Village) for 10 year maintenance work for Diversion of Forest land for Koonimedu A block for Erection desalination plant -60 MLD				
Sl.No	Year	Work Period	Item of work	Amount in Rs.
1	Ist year	2020-21	RAISING NURSERY	2007397
2	II nd year	2021-22	MAINTENANCE OF NURSERY	236098
3		2021-22	PLANTING WORK	4188932
4	III rd Year	2021-22	10 % RAISING NURSERY DURING 1st YEAR MAINTENANCE	86180
5		2021-22	10% 1st YEAR MAINTENANCE OF NURSERY	21522
6		2022-23	MAINTENANCE WORK DURING 1st YEAR	1792012
7	IVth Year	2022-23	5 % RAISING NURSERY DURING 2nd YEAR MAINTENANCE	51591
8		2022-23	5% 2nd YEAR MAINTENANCE OF NURSERY	11871
9	Vth Year	2023-24	MAINTENANCE WORK DURING 2nd YEAR	1947903
10		2023-24	5 % RAISING NURSERY DURING 3rd YEAR MAINTENANCE	56750
11	VI th Year	2023-24	5% 3rd YEAR MAINTENANCE OF NURSERY	13058
12		2024-25	MAINTENANCE WORK DURING 3rd YEAR	1247357
13	VII th Year	2025-26	MAINTENANCE WORK DURING 4th YEAR	1243098
14	VIII th Year	2026-27	MAINTENANCE WORK DURING 5th YEAR	1367407
15	IX th Year	2027-28	MAINTENANCE WORK DURING 6th YEAR	1516589
16	X th Year	2028-29	MAINTENANCE WORK DURING 7th YEAR	812848
17	XI th Year	2029-30	MAINTENANCE WORK DURING 8th YEAR	272264
18	XII th Year	2030-31	MAINTENANCE WORK DURING 9th YEAR	299490
19		2031-32	MAINTENANCE WORK DURING 10th YEAR	329439
TOTAL AMOUNT FOR (11.055 Ha.) IN Rs.				17501809
TOTAL AMOUNT FOR (11.055 Ha.) IN Lakhs				175.01809

Yearwise Details

Sl No	Year	Amount
1	First Year (2020-21)	2007397
2	Second Year (2021-22)	4532732
3	Third Year (2022-23)	1855475
4	Fourth Year (2023-24)	2017712
5	Fifth Year (2024-25)	1247357
6	Sixth Year (2025-26)	1243098
7	Seventh Year (2026-27)	1367407
8	Eight Year (2027-28)	1516589
9	Nineth Year (2028-29)	812848
10	TenthYear (2029-30)	272264
11	EleventhYear (2030-31)	299490
12	TwelfthYear (2031-32)	329439
Grand Total		17501809
TOTAL AMOUNT FOR (11.055 Ha.) IN Lakhs		175.01809


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


 21/03/20
 District Forest Officer,
 Villupuram Forest Division,
 Villupuram.

**MODEL ESTIMATE FOR RAISING NURSERY AND PLANTING MISCELANEOUS SEEDLINGS IN THE
COMPENSATORY AFFORESTATION 11.055 Ha (Karattai Village) LAND IN VILUPPURAM FOREST DIVISION
DURING 2020-21**

1. Seedlings required for planting	11055	Nos.
2. Survival of seedlings	11055	Nos.
3. Total Seedlings with Replacement of casualties	12161	Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.4 per/day

(Part -A) Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	12161	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	6895.00
2	12161	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	75638.31
3	288.20385	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	14410.19
4	60583.611	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	306713.62
5	605.84	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	60583.61
6	605.84	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	311784.47
	15	Days					1	
7	605.84	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	311775.38
	30	Days					1	
8	6.080	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythe- bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	3040.13
9	1.544	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	772.19
10	1.5444	M ³	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	772.19
11	12161	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	17960.45
12	12161	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	10175.91
	10	Days					1	

30	12161	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4,10.7	0.28	117.15	1000	42738.08
	30	Days					1	
31	12161		Cost of water (30 x 40)			3.6	1000	4377.78
	100	Days					1	
32	12161	Nos.	Shifting the container (30 x 45)	4,15.7	2.69	1125.5	1000	82119.86
	6	Times					1	
33	1344.34328	m2	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	45708.00
34	1.18	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019 20	Rate arrived for 1000 seedlings	418.40	1	98742.40
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Sub Total								1824907
Add 10% escalation for the year 2020-21								2007397

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCF's office for Massive Tree Planting programme during 2019-20

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no 23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest schedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest schedule rates 2019-20 (Labour rate Rs.418.40)

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in this estimate.

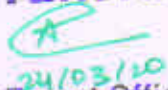
Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME

Sl.no. 35 : LS Provision for documentation and unforeseen expeditious of execution work has been provided.

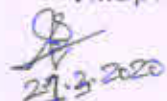


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20

District Forest Officer,
Villupuram Forest Division,
Villupuram.


27.3.2020

MODEL ESTIMATE FOR 1st YEAR MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION 11.055 Ha (Karattai Village) LAND IN VILUPPURAM FOREST DIVISION DURING 2021-22

Size of Bags: 16x30cm 300g

Area in Ha : 11.055

No of Seedlings: 11055 Nos

Casualties 10 %: 1106 Nos

Total: 12161 Nos

Wage rate Rs: 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
MAINTENANCE OF NURSERY WORK								
1	12161	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	85476.00
	30	Days					1	
2	12161	Nos.	Watering container plants once in alternate days 60 days (30 watering. Days)	4.11.5	0.185	234.300	1000 No	85476.00
	30	Days					1	
3	12161	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	24117.00
	6	times					1	
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00
TOTAL								195122
Add 10% escalation for the year 2020-21								214634
Add 10% escalation for the year 2021-22								236098

Specification

For the item no. 1,2,3, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of excution work has been provided.

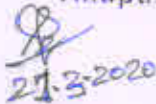


Forest Range Officer,
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /



District Forest Officer,
Villupuram Forest Division,
Villupuram.


21-3-2020

MODEL ESTIMATE FOR RAISING NURSERY AND PLANTING MISCELANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22.

Size of Bags: 30x45cm 400g
Area in Ha : 11.055

No of Seedlings: 11055 Nos
Casualties 10 %: 1106 Nos
Total: 12161 Nos
Wage rate Rs: 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
PLANTING OPERATION								
1	12161	Nos	Transporting saplings (Transported up to 40 Kms)	As per PCCF		5	1	Nos 60802.50
2	12161	Nos	Lodging unloading the Seedlings	5.11.7	3.20	1376.54	1000	Nos 16739.00
3	110550	Sq.m	Clearing Scrub Jungle	PWD SSR 2019-20		3.60	1	Sq.m 397980.00
4	12161	Nos	Distribution of seedlings in the site container plants upto 100mts in plains	5.15.1	10	4184.00	1000	Nos 50880.00
5	12161	Nos	Digging 60 cm3 pits in all type of soil for CAMPA plantation	5.8.2	7.72	3230.05	100	Nos 392790.00
6	12161	Nos	Diging 20cm circular pits away from the 20cm pits in all type of soil for CAMPA plantation	PWD SSR 2019-20		48.80	1	Cu.m
	7539.51	Cu.m						
7	12161	Nos	Planting the container seedlings plants by refilling the pits of 60 cu.m in plains	5.20	0.7	292.88	100	Nos 35615.67
8	1799.8	Nos	Cost and transport of FYM @ 0.054 cu.m for 60 cu.m pits (1/4 volume)	LR		500.00	1	Nos 899877.00
9	11055	Nos	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	514.63	100	Nos 56893.00
10	11055	Nos	Watering planted saplings for 4 times per month = 16 watering days (December to March) (4x4 = 16days)	FSR 2019-20	1000 Nos./4 Months	418.40	200 Nos. / Mazdoor / day	370032.96
11	11055	Nos	Cost for water 15 litres per seedling per time for 16 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	Liter 265320.00
12	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS				12309.00
PROTECTION								
13	2.00	Km	Formation of cattle proof trench size Length=2km Width=2m, Depth=2m to avoid the cattle movement As per G.O. (D) No. 7 E&F (FR 5 Dept. - Dated. 08.01.2020 Sl.No. B-5	PWD SSR 2019-20		231000	1	Km 462000.00
14	150	Days	Engaging Protection mazdoor @ 1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1	1Nos 62760.00
15	LS		Contingencies for unforeseen expenditure towards Name board and publicity board fixing etc., unforeseen item if any	LS				10000.00
Total								3461927
Add 10% escalation for the year 2020-21								3808120
Add 10% escalation for the year 2021-22								4188932

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 15: LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /

**District Forest Officer,
Villupuram Forest Division,
Villupuram.**

21.3.2020

MODEL ESTIMATE FOR RAISING NURSERY FOR 10% CASUALTY REPLACEMENT WORK FOR MISCELANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22

1. Seedlings required for planting	1106	Nos.
2. Survival of seedlings	1106	Nos.
3. Total Seedlings with Replacement of casualties	1106	Nos.

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	1106	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	626.82
2	1106	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	6876.21
3	6.7	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	335.00
4	182.4075	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	923.47
5	1.82	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	182.41
6	1.82	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	938.73
	15	Days					1	
7	1.82	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	938.71
	30	Days					1	
8	11.396378	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythe bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	5698.19
9	2.85219	M ³	Collection and supply of Farmacyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	1426.10
10	0.1625085	M ³	Collection and supply of Farmacyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	81.25
11	1106	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	1632.77
12	1106	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	925.08
	10	Days					1	

13	1105.5	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	1387.62
	30	Days					1	
14	1105.5	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	1387.62
	30	Days					1	
15	1105.5	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	305.27
	2	Times					1	
16	1105.5	Nos.	Cost of water (10x20)			0.6	1000	46.43
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	73.70	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	373.12
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	1290.00
20	0.1625085	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	81.25
21	1106	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (exculding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	13214.80
			Cost of Bio - fertilizers					
22	4	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	60.00
23	4.422	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	66.33
24	4.422	Kg.	Cost of VAM @ 6 gm / plant			10	1	44.22
25	6.633	Kg.	Cost of Vermicasting @ 8 gm / plant.			5.5	1	36.48
26	8.844	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	37.00
27	1106	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	2590.19
	10	Days					1	
28	1106	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	3885.28
	30	Days					1	
29	1106	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	3885.28
	30	Days					1	

30	1106	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	3885.28
	30	Days					1	
31	1106		Cost of water (30 x 40)			3.6	1000	397.98
	100	Days					1	
32	1106	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	7465.44
	6	Times					1	
33	12.221303	m2	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	416.00
34	0.055275	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019- 20	Rate arrived for 1000 seedlings	418.40	1	4625.41
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Total								71223
Add 10% escalation for the year 2020-21								78345
Add 10% escalation for the year 2021-22								86180

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCP's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest schedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest schedule rates 2019-20 (Labour rate

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.

Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME

Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /



24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.


21.3.2020

MODEL ESTIMATE FOR 1st YEAR MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2021-22

Size of Bags: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos

Casualties 10 %: 1106 Nos

Total: 12161 Nos

Wage rate Rs 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
1ST YEAR MAINTENANCE OF NURSERY FOR 10% CASUALTY REPLACEMENT WORK								
1	1106	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	7771.00
	30	Days					1	
2	1106	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	7771.00
	30	Days					1	
3	1106	Nos.	Shifting the container plants, woodding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	2192.00
	6	times					1	
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00
TOTAL								17787
Add 10% escalation for the year 2020-21								19566
Add 10% escalation for the year 2021-22								21522

Specification


For the item no. 1,2,3 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of excution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/02/20
District Forest Officer,
Villuppuram Forest Division,
Villuppuram.

MODEL ESTIMATE FOR 1st YEAR MAINTNANCE WORKS AND PLANTING CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

Size of Bag: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos
Casualties 10 %: 1106 Nos
Total: 12161 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	1106	Nos.	Transporting saplings (Transported upto 40 Kms.)	As per PCCF ME		5	1	5527.50
2	1106	Nos.	Distribution of saplings upto 100 Mts.	5.15.1	10	4184	1000	4625.41
3	1106	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	1376.54	1000	1521.76
4	11055	Nos.	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	113785.14
5	11055	Nos.	Two Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	22110.00
6	11055	Nos.	Watering planted saplings for 4 times per month = 28 watering days (April to june and December to March) (7x4 = 28 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos / Mazdoor / day	647557.68
7	11055	Nos.	Cost for water 15 litres per seedling per time for 28 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	464310
8	1106	Nos.	Replacement of casualties	As per Model EST TNRSP-II 2016-17		1824.335	100	20168.02
9	1	Nos.	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
	150	Days						
10	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								1346366
Add 10% escalation for the year 2020-21								1481002
Add 10% escalation for the year 2021-22								1629102
Add 10% escalation for the year 2022-23								1792012


Specification

For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 10 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


 Forest Range Officer
 Tindivanam Range
 Tindivanam

/ COUNTERSIGNED /


 District Forest Officer,
 Villuppuram Forest Division,
 Villuppuram.

MODEL ESTIMATE FOR RAISING NURSERY FOR 2nd YEAR 5% CASUALTY REPLACEMENT WORK FOR MISCELLANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

- | | | |
|---|-----|------|
| 1. Seedlings required for planting | 553 | Nos. |
| 2. Survival of seedlings | 553 | Nos. |
| 3. Total Seedlings with Replacement of casualties | 553 | Nos. |

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	553	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	313.41
2	553	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	3438.11
3	3.35	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	167.50
4	91.20375	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	461.73
5	0.91	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	91.20
6	0.91	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	469.37
	15	Days					1	
7	0.91	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	469.35
	30	Days					1	
8	5,698.1892	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm). Polythe bags upto 4/5 volume 0.5 m3/1000	LR		500	1	2849.09
9	1.426095	M ²	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m3/1000)(10X20 cm Bag	LR		500	1	713.05
10	0.0812543	M3	Collection and supply of Farmyard Manure 1/5 volume of bag 0.127 m3/1000)(10X20 cm Bag	LR		500	1	40.63
11	553	Nos.	Preparation of Soil Mixture by breaking clods, seiving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	816.38
12	553	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	462.54
	10	Days					1	

13	552.75	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	693.81
	30	Days					1	
14	552.75	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	693.81
	30	Days					1	
15	552.75	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	152.64
	2	Times					1	
16	552.75	Nos.	Cost of water (10x20)			0.6	1000	23.22
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	36.85	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	186.56
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume.	LR		500	1	1290.00
20	0.0812543	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	40.63
21	553	Nos.	Preparation of Soil Mixture by breaking clods, serving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (excluding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	6607.40
			Cost of Bio - fertilizers					
22	4	Kg.	Cost of Azospirillum @ 4 gm / plant	Research rate		15	1	60.00
23	2.211	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	33.17
24	2.211	Kg.	Cost of VAM @ 6 gm / plant			10	1	22.11
25	3.3165	Kg.	Cost of Vermicasting @ 8 gm / plant.			5.5	1	18.24
26	4.422	Mz	Labour cost for transplanting	FSR 2019-20	1	418.4	100	18.50
27	553	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	1295.09
	10	Days					1	
28	553	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1942.64
	30	Days					1	
29	553	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1942.64
	30	Days					1	

30	553	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1942.64
	30	Days					1	
31	553		Cost of water (30 x 40)			3.6	1000	198.99
	100	Days					1	
32	553	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	3732.72
	6	Times					1	
33	3.0553256	m ²	Land rent for Nursery site	4.17	86.00	86.00	40Sq. m	104.00
34	0.0276375	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019- 20	Rate arrived for 1000 seedlings	418.40	1	2312.71
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Total								38761
Add 10% escalation for the year 2020-21								42637
Add 10% escalation for the year 2021-22								46901
Add 10% escalation for the year 2022-23								51591

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCP's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer

Sl.no.23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest shedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest shedule rates 2019-20 (Labour rate

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.


Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME

Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR 2ND YEAR 5% MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2022-23

Size of Bags: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos

Casualties 5 %: 553 Nos

Total: 11608 Nos

Wage rate Rs. 418.40

Sl. no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
1ST YEAR MAINTENANCE OF NURSERY FOR 10% CASUALTY REPLACEMENT WORK								
1	553	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	3885.00
	30	Days					1	
2	553	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	3885.00
	30	Days					1	
3	553	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	1096.00
	6	times					1	
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00
TOTAL								8919
Add 10% escalation for the year 2020-21								9811
Add 10% escalation for the year 2021-22								10792
Add 10% escalation for the year 2022-23								11871

Specification

For the item no. 1,2,3 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tndivanam Range
Tndivanam

/ COUNTERSIGNED /


24/02/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.

MODEL ESTIMATE FOR 2nd YEAR MAINTENANCE WORKS AND PLANTING 5% CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2023-24

Size of Bags: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos
Casualties 05 %: 553 Nos
Total: 11608 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity	Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	553 Nos.	Transporting saplings (Transported upto 40 Kms.)	As per PCCF ME.		5	1	2763.75
2	553 Nos.	Distribution of saplings upto 100 Mts.	5.15.1	10	4184	1000	2312.71
3	553 Nos.	Loading and unloading the seedlings	5.11.7	3.29	1376.54	1000	760.88
4	11055 Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	113785.14
5	11055 Nos.	Two Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	22110.00
6	11055 Nos.	Watering planted saplings for 4 times per month = 28 watering days (April to June and December to March) (7x4 = 28 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	647557.68
7	11055 Nos.	Cost for water 15 litres per seedling per time for 28 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	464310
8	553 Nos.	Replacement of casualties	As per Model EST TNRSP-II 2016-17		1824.335	100	10084.01
9	1 Nos. 150 Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
10	LS	Contingencies for unforeseen expenditure				LS	4000
Sub Total							1330444
Add 10% escalation for the year 2020-21							1463489
Add 10% escalation for the year 2021-22							1609837
Add 10% escalation for the year 2022-23							1770821
Add 10% escalation for the year 2023-24							1947903

Specification

For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approval. FSR for the year 2019-20

SLno. 10 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR RAISING NURSERY FOR 3rd YEAR 5% CASUALTY REPLACEMENT WORK FOR MISCELANEOUS SEEDLINGS IN THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2023-24

- | | | |
|---|-----|------|
| 1. Seedlings required for planting | 553 | Nos. |
| 2. Survival of seedlings | 553 | Nos. |
| 3. Total Seedlings with Replacement of casualties | 553 | Nos. |

Size of the Bag 30x45x400G

FSR Rate for 2019-20 Rs. 418.40 per/day

Nursery Period August-2020 to March-2021

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	553	Nos.	Cost of Polythene Bags 10 x 20 x 200 size	As per Tender Rates		567	1000	313.41
2	553	Nos.	Cost of Polythene Bags 30 x 45 x 400 size	As per Tender Rates		6220	1000	3438.11
3	3.35	Kg.	Cost of Seeds (1 Kg / 1000 Nos.)	L.R.		50	1	167.50
4	91.20375	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10x20 Cm. Bags	4.1	2.42	1012.53	200	461.73
5	0.91	Nos.	Formation of germination bed of size 10m x 10m x 0.30 @ one bed / 5000 Nos.	M.E. 2004-05		100	1	91.20
6	0.91	Nos.	Watering the germination beds twice daily with rose can (15 days)	4.5.1	0.82	343.09	10	469.37
	15	Days					1	
7	0.91	Nos.	Watering the germination beds once daily with rose can (30 days)	4.5.2	0.41	171.54	10	469.35
	30	Days					1	
8	5.6981892	M ³	Collection and supply of good quality earth & sand for filling in (10x20 Cm) Polythe bags upto 4/5 volume 0.5 m ³ /1000	LR		500	1	2849.09
9	1.426095	M ³	Collection and supply of Farnyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	713.05
10	0.0812543	M ³	Collection and supply of Farnyard Manure 1/5 volume of bag 0.127 m ³ /1000)(10X20 cm Bag	LR		500	1	40.63
11	553	Nos.	Preparation of Soil Mixture by breaking clods, serving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in Polythene bags and arranging bags in beds and pricking out the seedlings (excluding the cost of FYM and earth)	4.6.3	3.53	1476.95	1000	816.38
12	553	Nos.	Watering container plants twice daily (10 Days) 10 x 20 bags	4.10.3	0.2	83.68	1000	462.54
	10	Days					1	

13	552.75	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	693.81
	30	Days					1	
14	552.75	Nos.	Watering container plants once in alternate days with rose can (30 Days) 10x20 bags	4.11.3	0.10	41.84	1000	693.81
	30	Days					1	
15	552.75	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	138.07	1000	152.64
	2	Times					1	
16	552.75	Nos.	Cost of water (10x20)			0.6	1000	23.22
	70	Days						
TRANSPLANTING TO 30X45 BAGS								
17	36.85	M2	Preparation of Nursery by clearing and leveling the site for forming beds (20 sq.m /300 Nos.) for 30x45 cm bags	4.1	2.42	1012.53	200	186.56
18	10.3088	M3	Collection and supply of good quality earth for filling in (30 x 45 Cm.) Polythene bags (10.3088M3/1000) upto 4/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	5154.40
19	2.58	M3	Collection and supply of Farmyard manure (30 x 45 Cm.) (2.58m3/1000) upto 1/5th volume of bag excluding the transplanted 30X45 bag volume	LR		500	1	1290.00
20	0.0812543	M3	Collection and supply of Sand (0.147M3/1000) (30X45)	L.R.		500	1	40.63
21	553	Nos.	Preparation of Soil Mixture by breaking clods, serving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (exculding the cost of FYM and earth) (30 x 45 Cm bags	4.6.7	28.57	11953.69	1000	6607.40
Cost of Bio - fertilizers								
22	4	Kg.	Cost of Azosphirillum @ 4 gm / plant	Research rate		15	1	60.00
23	2.211	Kg.	Cost of Phospobacteria @ 4 gm / plant			15	1	33.17
24	2.211	Kg.	Cost of VAM @ 6 gm / plant			10	1	22.11
25	3.3165	Kg.	Cost of Vermicasting @ 8 gm / plant.			5.5	1	18.24
26	4.422	Mz.	Labour cost for transplanting	FSR 2019-20	1	418.4	100	18.50
27	553	Nos.	Watering container plants twice daily (10 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000	1295.09
	10	Days					1	
28	553	Nos.	Watering container plants once daily (30 days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1942.64
	30	Days					1	
29	553	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1942.64
	30	Days					1	

30	553	Nos.	Watering container plants twice in a week (180 Days) 30 x 45 x 400 bags	4.10.7	0.28	117.15	1000	1942.64
	30	Days					1	
31	553		Cost of water (30 x 40)			3.6	1000	198.99
	100	Days					1	
32	553	Nos.	Shifting the container (30 x 45)	4.15.7	2.69	1125.5	1000	3732.72
	6	Times					1	
33	3.0553256	m2	Land rent for Nursery site	4.17	86.00	86.00	40Sq m	104.00
34	0.0276375	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 mazdoor / 20000 seedlings	FSR 2019- 20	Rate arrived for 1000 seedlings	418.40	1	2312.71
	200	Days					1	
35		LS	Contingencies and unforeseen charges			LS		3.00
Total								38761
Add 10% escalation for the year 2020-21								42637
Add 10% escalation for the year 2021-22								46901
Add 10% escalation for the year 2022-23								51591
Add 10% escalation for the year 2023-24								56750

* There is no deviation from the model estimate

Specification

For item No. 1 Tender rate approved for the year 2019-20 has been provided

For item No. 2 local rates has been provided as per

For the item no. 3,5,6,10,14,15,16,17,18,19,22 and 23 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

For the item no. 4 and 7 the rates provided are as per PWD SSR for the quantity worked out to the total volume

For the item no. 8,9,20 and 21 the rates provided are as per Model estimate communicated from the PCCP's office for Massive Tree Planting programme during 2019-

For the item no. 11,12 and 13 Research wing rates has been adopted in the estimate

For the item No. 22 minimum wage rates as per FSR for the year 2019-20 has been adopted in the estimate

For the item No. 23 contingencies has been provided and will be charged based on the actual only after getting prior approval of the District Forest Officer.

Sl.no.23&24 : The rates provided in these items are the approved FSL and manday rate as per Forest shedule rates 2019 - 20 (Labour rate Rs.418.40)

Sl.no.26,27,30,31,32,33 & 34 : The rates provided in these items are the approved FSL and manday rate as per revised Forest shedule rates 2019-20 (Labour rate

Sl.no.25 : For transport of seedlings of 16x30cm containers a rate of Rs.1000/- per load (2000 nos) has been provided in TAP ME provided in this estimate.

Sl.no. 28 & 29 : A rate of Rs.1.25/- & Rs.0.50/- per seedling has been provided in TAP ME

Sl.no. 35 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /



**District Forest Officer,
Villupuram Forest Division,
Villupuram.**

MODEL ESTIMATE FOR 3rd YEAR 5% MAINTENANCE OF NURSERY FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2023-24

Size of Bags: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos

Casualties 5 %: 553 Nos

Total 11608 Nos

Wage rate Rs. 418.40

Sl no	Qty	Unit	Name of the work	FSR/SSR	FSL	Rate	Per	Amount
1ST YEAR MAINTENANCE OF NURSERY FOR 10% CASUALTY REPLACEMENT WORK								
1	553	Nos.	Watering container plants alternate days (60 Days) 30 x 45 x 400 bags	4.10.7	0.56	234.3	1000 No	3885.00
	30	Days					1	
2	553	Nos.	Watering container plants once in alternate days 60 days (30 watering Days)	4.11.5	0.185	234.300	1000 No	3885.00
	30	Days					1	
3	553	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (6 times) as per requirement.	4.15.5	0.79	330.54	1000 No	1096.00
	6	times					1	
4	LS		For documentation and unforeseen expenditure to be restricted to as per actuals.	LS			LS	53.00
TOTAL								8919
Add 10% escalation for the year 2020-21								9811
Add 10% escalation for the year 2021-22								10792
Add 10% escalation for the year 2022-23								11871
Add 10% escalation for the year 2023-24								13058

Specification


For the item no. 1,2,3 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 4 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.

MODEL ESTIMATE FOR 3rd YEAR MAINTENANCE WORKS AND PLANTING 5% CASUALTY REPLACEMENT WORK FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2024-25

Size of Bag: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos
Casualties 05 %: 553 Nos
Total: 11608 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	553	Nos.	Transporting saplings (Transported upto 40 Kms.)	As per PCCF. ME.		5	1	2763.75
2	553	Nos.	Distribution of saplings upto 100 Mts.	5.15.1	10	4184	1000	2312.71
3	553	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	1376.54	1000	760.88
4	11055	Nos.	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (2 soil works)	5.24	1.23	514.632	100	113785.14
5	11055	Nos.	Two Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	22110.00
6	11055	Nos.	Watering planted saplings for 2 times per month = 28 watering days (April to June and December to March) (7x2 = 14 days)	FSR 2019-20	1000 Nos./2 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	323778.84
7	11055	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	232155
8	553	Nos.	Replacement of casualties	As per Model EST TNRSP-II 2016-17		1824.335	100	10084.01
9	1 150	Nos. Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
10	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								774510
Add 10% escalation for the year 2020-21								851961
Add 10% escalation for the year 2021-22								937157
Add 10% escalation for the year 2022-23								1030873
Add 10% escalation for the year 2023-24								1133961
Add 10% escalation for the year 2024-25								1247357

Specification

For the item no. 1,2,3,4,5,6,7,8,9 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 10 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.

MODEL ESTIMATE FOR 4th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2025-26

Size of Bags 30x45cm 400g

Area in Ha : 11.055

No of Seedlings 11055 Nos
Casualties 10 % 1106 Nos
Total: 12161 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity	Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	11055 Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	56892.35
2	11055 Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	22110.00
3	11055 Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to june and December to March) (7x4 = 14 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor r / day	323778.84
4	11055 Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	232155
5	0 Rm	Mintenance work fo barbed wire fencing work around the CA land	As per LQ		338	Rm	0
6	1 150 Nos Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
7	LS	Contingencies for unforeseen expenditure				LS	4000
Sub Total							701696
Add 10% escalation for the year 2020-21							771866
Add 10% escalation for the year 2021-22							849052
Add 10% escalation for the year 2022-23							933958
Add 10% escalation for the year 2023-24							1027353
Add 10% escalation for the year 2024-25							1130089
Add 10% escalation for the year 2025-26							1243098

Specification


For the item no. 1,2,3,4,5, rates as per mandays have been adopted us per the approved FSR for the year 2019-20

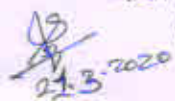
Sl.no. 6 - LS Provision for documentation and unforeseen expenditure of execution work has been provided



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


21.3.2020

**MODEL ESTIMATE FOR 5th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND
11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2026-27**

Size of Bags: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos

Casualties 10 %: 1106 Nos

Total: 12161 Nos

Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	11055	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	56892.35
2	11055	Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02		2	1	22110.00
3	11055	Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to june and December to March) (7x2 = 28 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor r / day	323778.84
4	11055	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	232155
5	1 150	Nos Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
6	LS		Contingencies for unforeseen expenditure				LS	4000
Sub Total								701696
Add 10% escalation for the year 2020-21								771866
Add 10% escalation for the year 2021-22								849052
Add 10% escalation for the year 2022-23								933958
Add 10% escalation for the year 2023-24								1027353
Add 10% escalation for the year 2024-25								1130089
Add 10% escalation for the year 2025-26								1243098
Add 10% escalation for the year 2026-27								1367407

Specification

For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforseen expenditure of execution work has been provided



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /



District Forest Officer,
Villupuram Forest Division,
Villupuram.


21.3.2020

**MODEL ESTIMATE FOR 6th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND
11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2027-28**

Size of Bags: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos
Casualties 10 %: 1106 Nos
Total: 12161 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	11055	Nos.	Scrapping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil (1 soil works)	5.24	1.23	514.63	100	56892.35
2	11055	Nos.	One Slash weeding to remove the weeds growth all over the area cutting and clearing jungle growth for ICO works in all pecies (Light Growth)	PCCFs No.E2/19834/02 dated 24.06.02.		2	1	22110.00
3	11055	Nos.	Watering planted saplings for 2 times per month = 14 watering days (April to june and December to March) (7x2 = 14 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor r / day	323778.84
4	11055	Nos.	Cost for water 15 litres per seedling per time for 14 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	232155
5	1 150	Nos Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays.		418.40	1 Nos	62760
6	LS		Contingencies for unforeseen expenditure				LS	9804
Sub Total								707500
Add 10% escalation for the year 2020-21								778250
Add 10% escalation for the year 2021-22								856075
Add 10% escalation for the year 2022-23								941683
Add 10% escalation for the year 2023-24								1035851
Add 10% escalation for the year 2024-25								1139436
Add 10% escalation for the year 2025-26								1253380
Add 10% escalation for the year 2026-27								1378718
Add 10% escalation for the year 2027-28								1516589

Specification


For the item no. 1,2,3,4,5 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.


Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


21-3-2020

MODEL ESTIMATE FOR 7th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2028-29

Size of Bag: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos

Casualties 10 %: 1106 Nos

Total: 12161 Nos

Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	11055	Nos.	Watering planted saplings for 1 times per month =7 watering days (April to June and December to March) (7x1 = 7 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos / Mazdoor / day	161889
2	11055	Nos.	Cost for water 15 litres per seedling per time for 7 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	116077.5
3	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays	418.40	1 Nos		62760
	150	Days						
4	L.S		Contingencies for unforeseen expenditure				L.S	4000
Sub Total								344727
Add 10% escalation for the year 2020-21								379200
Add 10% escalation for the year 2021-22								417120
Add 10% escalation for the year 2022-23								458832
Add 10% escalation for the year 2023-24								504715
Add 10% escalation for the year 2024-25								555186
Add 10% escalation for the year 2025-26								610705
Add 10% escalation for the year 2026-27								671775
Add 10% escalation for the year 2027-28								738953
Add 10% escalation for the year 2028-29								812848

Specification

For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

SL.No. 6 : L.S Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

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24/03/20

District Forest Officer,
Villupuram Forest Division,
Villupuram.


21.3.2020

MODEL ESTIMATE FOR 8th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha. (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2029-30

Size of Bags: 30x45cm 400g
Area in Ha : 11.055

No of Seedlings: 11055 Nos
Casualties 10 %: 1106 Nos
Total: 12161 Nos
Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	11055	Nos.	Watering planted saplings for 1 times per month =1 watering days (April to June and December to March) (1x1 =1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	23127
2	11055	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	16582.5
3	1 150	Nos Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays		418.40	1 Nos	62760
4	LS		Contingencies for unforeseen expenditure				LS	2500
Sub Total								104970
Add 10% escalation for the year 2020-21								115467
Add 10% escalation for the year 2021-22								127013
Add 10% escalation for the year 2022-23								139714
Add 10% escalation for the year 2023-24								153686
Add 10% escalation for the year 2024-25								169055
Add 10% escalation for the year 2025-26								185960
Add 10% escalation for the year 2026-27								204556
Add 10% escalation for the year 2027-28								225012
Add 10% escalation for the year 2028-29								247513
Add 10% escalation for the year 2029-30								272264

Specification

For the item no. 1,2,3,4, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 5 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.

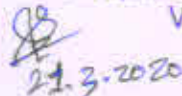


Forest Range Officer
Tindivanam Range
Tindivanam

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24/03/20
District Forest Officer,
Villupuram Forest Division,
Villupuram.



21.3.2020

MODEL ESTIMATE FOR 9th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2030-31

Size of Bags: 30x45cm 400g

Area in Ha : 11.055

No. of Seedlings: 11055 Nos

Casualties 10 %: 1106 Nos

Total: 12161 Nos

Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	11055	Nos.	Watering planted saplings for 1 times per month =1 watering days (April to June and December to March) (1x1 =1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	23127
2	11055	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	16582.5
3	1 150	Nos Days	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per PSR Mandays		418.40	1 Nos	62760
4	LS		Contingencies for unforeseen expenditure				LS	2500
Sub Total								104970
Add 10% escalation for the year 2020-21								115467
Add 10% escalation for the year 2021-22								127013
Add 10% escalation for the year 2022-23								139714
Add 10% escalation for the year 2023-24								153686
Add 10% escalation for the year 2024-25								169055
Add 10% escalation for the year 2025-26								185960
Add 10% escalation for the year 2026-27								204556
Add 10% escalation for the year 2027-28								225012
Add 10% escalation for the year 2028-29								247513
Add 10% escalation for the year 2029-30								272264
Add 10% escalation for the year 2030-31								299490

Specification

For the item no. 1,2,3,4,5 rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.

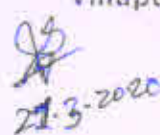


Forest Range Officer
Tindivanam Range
Tindivanam

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29/02/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


21-3-2020

MODEL ESTIMATE FOR 10th YEAR MAINTENANCE WORK FOR THE COMPENSATORY AFFORESTATION LAND 11.055 Ha (Karattai Village) IN VILUPPURAM FOREST DIVISION DURING 2031-32

Size of Bags: 30x45cm 400g

Area in Ha : 11.055

No of Seedlings: 11055 Nos

Casualties 10 % : 1106 Nos

Total: 12161 Nos

Wage rate Rs: 418.40

Sl.No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amt. Rs.
1	11055	Nos.	Watering planted saplings for 1 times per month =1 watering days (April to june and December to March) (1x1 =1 days)	FSR 2019-20	1000 Nos./4 Months @ 4 times per month	418.40	200 Nos. / Mazdoor / day	23127
2	11055	Nos.	Cost for water 15 litres per seedling per time for 1 watering days (240000 litres)	MTP ME 2017-18	1200	12000	24000	16582.5
3	1	Nos	Engaging Protection mazdoor @1 Mazdoor from October to March @25 days/Month	As per FSR Mandays	418.40	1 Nos	62760	
	150	Days						
4	LS		Contingencies for unforeseen expenditure				LS	2500
Sub Total								104970
Add 10% escalation for the year 2020-21								115467
Add 10% escalation for the year 2021-22								127013
Add 10% escalation for the year 2022-23								139714
Add 10% escalation for the year 2023-24								153686
Add 10% escalation for the year 2024-25								169055
Add 10% escalation for the year 2025-26								185960
Add 10% escalation for the year 2026-27								204556
Add 10% escalation for the year 2027-28								225012
Add 10% escalation for the year 2028-29								247513
Add 10% escalation for the year 2029-30								272264
Add 10% escalation for the year 2030-31								299490
Add 10% escalation for the year 2031-32								329439

Specification


For the item no. 1,2,3,4,5, rates as per mandays have been adopted as per the approved FSR for the year 2019-20

Sl.no. 6 : LS Provision for documentation and unforeseen expenditure of execution work has been provided.



Forest Range Officer
Tindivanam Range
Tindivanam

/ COUNTERSIGNED /


24/03/20
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


24/3/2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

The area for compensatory Afforestation Bit -I in Kattalai Village of Tindivanam Taluk at Survey No. 5/1, 5/2, 5/3 and 7/1 to the extent of 7.09 ha. has been inspected by me on 21.03.2020. This area is found suitable to raise mixed species plantation as compensatory afforestation.


24/03/20

District Forest Officer,
Villupuram Forest Division,
Villupuram.

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

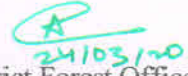
The area for compensatory Afforestation Bit -II in Kattalai Village of Tindivanam Taluk at Survey No. 8/1, 8/2, 12, 36/1 and 37/1 to the extent of 14.32.5ha. has been inspected by me on 21.03.2020. This area is found suitable to raise mixed species plantation as compensatory afforestation.


24/03/20
District Forest Officer.
Villupuram Forest Division.
Villupuram.

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

The area for compensatory Afforestation Bit-III in Karattai Village of Vanur Taluk at Survey No. 107/2, 108, 109/1, 109/2, 110/3, 110/4, 119, 120/1, 120/2, 127, 128/3, 128/4, 135/2, 136/1 and 136/2 to the extent of 11.05.5ha. has been inspected by me on 21.03.2020. This area is found suitable to raise mixed species plantation as compensatory afforestation.


24/03/20

District Forest Officer.
Villupuram Forest Division.
Villupuram.