

ABSTRACT

Compensatory afforestation of degraded Forest for Diversion of 0.59 ha in Kiluvaimalai Reserve Forest and 0.2249 ha in Usilampatti Reserved Forest (Total Area=0.8149 Ha) in Madurai Range for Madurai - Natham Road Project by NHA1 - MODEL ESTIMATE FOR RAISING 1000 SEEDLINGS IN 1 HECTARE AREA

1	Number of Trees to be felled (i) Spontaneous Trees= 173 Numbers & (ii) Non - Spontaneous Trees = 51 Nos	:	224 trees
2	Prorata of Compensatory afforestation for 1000 Seedlings per ha	:	Rs.12,06,590/-
3	Number of seedling proposed for replanting in the compensaory Afforestation (224 trees x 10 Numbers = 2240 Nos)	:	2240 Nos
4	Total area worked out for the compensatory afforestation (2240 numbers /1000 seedlings per hectare=2.24 hectare)	:	2.24 hectares
5	Total Amount proposed for compensatory afforestation with 10 years maintenance	:	Rs.2702762/-


**Forest Range Officer,
Madurai Range,
Madurai.**


**District Forest Officer,
Madurai Forest Division,
Madurai.**


19.2.2024

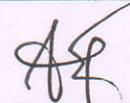

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ABSTRACT

Compensatory afforestation of degraded Forest for Diversion of 0.59 ha in Kiluvaimalai Reserve Forest and 0.2249 ha in Usilampatti Reserved Forest (Total Area=0.8149 Ha) in Madurai Range for Madurai - Natham Road Project by NHAI - MODEL ESTIMATE FOR RAISING 1000 SEEDLINGS IN 1 HECTARE AREA

Si.No	Area	Name of work	Pro-rata / Ha	Amount (Rupees)
1	1 Ha	Cost of Raising Nursery and Planting	Rs. 351500.00 /Ha	351500.00
2	1 Ha	Cost of First Year Maintenance	Rs. 166500.00 /Ha	166500.00
3	1 Ha	Cost of Second Year Maintenance	Rs. 132730.00 /Ha	132730.00
4	1 Ha	Cost of Third Year Maintenance	Rs. 71540.00 /Ha	71540.00
5	1 Ha	Cost of Fourth Year Maintenance	Rs. 15000.00 /Ha	15000.00
6	1 Ha	Cost of Fifth Year Maintenance	Rs. 17120.00 /Ha	17120.00
7	1 Ha	Cost of Sixth Year Maintenance	Rs. 85000.00 /Ha	85000.00
8	1 Ha	Cost of Seventh Year Maintenance	Rs. 25200.00 /Ha	25200.00
9	1 Ha	Cost of Eighth Year Maintenance	Rs. 19000.00 /Ha	19000.00
10	1 Ha	Cost of Ninth Year Maintenance	Rs. 260000.00 /Ha	260000.00
11	1 Ha	Cost of Tenth Year Maintenance	Rs. 63000.00 /Ha	63000.00
		Total		1206590.00


Forest Range Officer
Madurai Range
Madurai.


District Forest Officer,
Madurai Forest Division,
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51.91
19.2.2021



MODEL ESTIMATE FOR RAISING NURSERY DURING 2020-21

Compensatory afforestation of degraded Forest for Diversion of 0.59 ha in Kiluvaimalai Reserve Forest and 0.2249 ha in Usilampatti Reserved Forest (Total Area=0.8149 Ha) in Madurai Range for Madurai - Natham Road Project by NHAI.

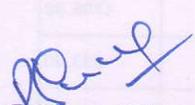
Number of Seedlings =		1000		Planting Area =		1		Ha	
No. of seedlings to be raised during 2020-21 = 1000 Nos + 10% Casualty =				1000		+		100	
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =								449.65 /Day	
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)
1	165.00	M ²	Preparation of Nursery site by clearing and leveling the site for forming ten standard beds of size of 10m x 1m.	4.1	2.42	1088.15	200	M ²	898.00
2	2.200	Kgs	Cost of Seeds	MTP M.E	-	200.00	1	Kg	440.00
3	1100.00	Nos.	Cost of Polythene Bags 13 cm x 25 cm x 250G	Tender Rate 2019-2020	-	944.00	1000	Nos	1038.00
4	4	M ³	Forming Germination beds of size 10m x 1m x 0.3 m by heaping the soil	PWD SSR Item No.62	-	84.00	1	M ³	336.00
5	1	M ³	Watering germination beds twice daily with rose cans for 15 days	4.5.1	0.82	368.71	10	Beds/Day	553.00
	15	Day							
6	1	M ³	Watering germination beds Once daily with rose cans for 15 days	4.5.2	0.41	184.36	10	Beds/Day	277.00
	15	Day							
7	1100.00	Nos.	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture - 4/5 th of the total volume	MTP M.E	-	750.00	1	M ³	817.00
	1.089	M ³							
8	1100	Nos.	Cost and transport (Collection and supply) of farm yard manure for filling bags - 1/5th of the total volume	MTP M.E	-	750.00	1	M ³	281.00
	0.374	M ³							
9	1100	Bags	Preparation of soil mixture by breaking clods. sieving and mixing of fertile earth (including red soil, silt and sand etc., according to requirements) and farmyard manure at 3:1 ratio, heaping at the filling site and filling in polythene bags arranging bags in beds and pricking out the seedlings (excluding cost of earth and farm yard manure)	4.6.4	4.48	2014.43	1000	Bags	2216.00
10			Watering the container plants with rose cans watering regime as per the NHAI ME approved by PCCF No.J1/57395/2003 dated:12.12.03						
a)	1100		Watering the container plants twice daily with rose can (Water storage pits to be dug up within 10m-20m from beds) - 15 days	4.10.4	0.23	103.42	1000	Bags	1706.00
	15								
b)	1100	Nos	Watering the container plants once daily - 30 days	4.11.4	0.115	51.71	1000	Nos	1706.00
	30	Day							
c)	1100	Nos	Watering the container plants Alternate days - 15 days	4.11.4	0.115	51.71	1000	Nos	853.00
	15	Day							
11	1100	Nos.	Cost of water for the Container seedlings from Private well in 60 Days	4.18.4	-	0.85	1000	Nos/ Day	56.00
	60	Day							
12	1100	Bags	Shifting the container plants, weeding, grading and replacement of casualities in the bags- shifting to done once in 21 days, first shifting not before 45 days after pricking out - 1 shifts	4.15.4	0.51	229.32	1000	Shift	252.00
	1	Shift							
PART - II (Bags size 30 x 45 cm x 600 G)									
13	1100	Nos	Cost of Polythene Bags 30cm x 45cm x 600G poly bags	Tender Rate 2020-2021	-	6549.00	1000	Nos	7204.00
14	10.153	M ³	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture - 4/5th of the total volume (excluding the volume of earth in 13 x 25 cm containers)	LR	-	750.00	1.00	M ³	7615.00
15	2.541	M ³	Cost and transport of Farm yard manure for filling bags - 1/5th of the total	LR	-	750.00	1.00	M ³	1906.00

SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
16	1100		Preparation of soil mixture by breaking clods. seiving and mixing of fertile earth (including red soil, silt and sand etc., according to requirements) and farmyard manure at 3:1 ratio, heapitn at the fillign site and filling in polythene bags arranging bags in beds and pricking out the seedlings (excluding cost of earth and farmyard manure)	4.6.7	28.57	12846.50	1000	Bags	14131.00
17	1100	Nos	Cost of Vermicasting @ 35 gm per Seedlings	Morden Nursery Dharmapuri Rate		10.00	1	Kg	385.00
	0.035	Kg							
18	1100	Nos	Cost of Azosphirillam @ 6 gm per seedlings	Morden Nursery Dharmapuri Rate		27.00	1	Kg	178.00
	0.006	Kg							
19	1100	Nos	Cost of Phospho Bacteria @ 6 gm per seedlings	Morden Nursery Dharmapuri Rate		27.00	1	Kg	178.00
	0.006	Kg							
20	1100	Nos	Cost of VAM @ 15 gm per Seedlings	Morden Nursery Dharmapuri Rate		18.00	1	Kg	297.00
	0.015	Kg							
21	1100	Bags	Labour cost for transplanting seedlings from 13 x 25 cm container bags into 30 x 45 cm containers - 10 Maz /1000	-	-	449.65	100	1 Maz / day	4946.00
22	1100	Nos	Watering the container plants with rose cans watering regime as per the NHAIE ME approved by PCCF's ref.No.J1/57395/2003 dated:12.12.2003						
a)	1100	Nos	Watering the container plants twice daily with rose can (Water storage pits to be dug up within 10m-20m from beds) - 60 daysWatering	4.10.7	0.56	251.80	1000	Day	16619.00
	60	Day							
b)	1100	Nos	Watering the container plants once daily for 150 days	4.11.7	0.28	125.90	1000	Day	20774.00
	150	Day							
23	1100	Nos	Shiting the container plance once in 21 days- first shift after 25 days from the date of transplanting 1 times.	4.15.7	2.69	1209.56	1000	Shift	1331.00
	1	Time							
24	LS		Contingencies such as application of pesticides panchakavya for erection of board etc. and creating awareness	LS					507.00
TOTAL									87500.00
Nursery raising cost per Ha @ 1000 seedlings per Ha (with 10% seedlings for casualty replacement)									87500.00
Prorata per seedling									79.55

Specification:

The above estimate is prepared based on Madurai Circle FSR and Model Estimate communicated by the PCCF, Chennai with escalation of 10% for every consecutive year from 2020-21

The above Model Estimate is prepared for planting 1000 plants per hectare. (with 10% seedlings for replacement of casualty). The cost arrived in this estimate is the prorata for planting per hectare of area.

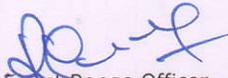

Forest Range Officer,
Madurai Range,
Madurai.


District Forest officer,
Madurai Forest Division,
Madurai.


19-2-2021



MODEL ESTIMATE FOR PLANTING DURING 2021-22									
No. of seedlings to be planted during 2021-22 = 1000 Nos +10% for casuality replacement								1000	Nos.
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =								449.65	Day
Sl. No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)
1	1000	Nos	Digging 60 CM3 pits in all types of soils for avenue - non-rainy season	5.8.1	9.26	4163.76	100	Nos	41638.00
2	1000	Nos	Cost of transport fo poultry manure each plant	LR	-	2.5	1	Kg	1250.00
	0.5	Kg	500 grams						
3	1000	Nos	Application of poultry manure @500g per plant by mixing in the pit before planting 1 mazdoor	LR	-	2	1	No	1000.00
	0.5	Kg							
4	1000	Nos	Transporting saplings (transported to the radius of 40 Km) excluding loading and unloading	MTP M.E	-	7	1	No	7000.00
5	1000	Nos	Loading and unloading the container seedlings (30 x 45 cm) in private lorry upto a lead of 2 Kms. Excluding hire charges for vehicles	5.11.7	3.29	1479.35	1000	Nos	1479.00
6	1000	Nos	Distribution of container seedlings in the site container plants upto 200 Mts	5.16.2	30	13489.5	1000	Nos	13490.00
7	1000	Nos	Planting the container seedlings by refilling the pits of size 60 cm	5.22	1.71	768.902	100	Nos	7689.00
8	100	Nos	Replacement of casualties by re-opening the failed pits and planting the container plants and refilling the pits (1/2 pitting rate + full planting rate)	5.23		2504.55	100	Nos	2505.00
9	1000	Nos	Scrap weeding for 1 metre dia and soil working 15cms depth around each plants and removing the grassroots away from the site or upturning the soil in plains	5.24	1.23	553.07	100	Nos	5531.00
10	1000	Nos	Watering the planted seedlings once in a week during summer / non-rainy season from December to March @ one mazdoor for 200 plants / watering day (17 watering days)	NHAI M.E	-	449.65	200	Nos/Day	38220.00
	17	Days							
11	340000	Ltrs	Cost of water @ 20 liters per seedlings December to March 4 months) at the rate once in a week (20 x 1000 x 17)	NHAI M.E	-	1200	12000	Ltrs	34000.00
12	1000	Nos	Engaging protection mazdoor @ 1 mazdoor / 1000 plants from December to March @ 25/days / month December to march	FSR 2020-2021	-	449.65	1000	Plants/Maz/day	44965.00
	100	Days							
13	1000	Nos	Brushwood fencing utilizing the cut materials obtained from the plantation area			40.00	seedling	Nos	40000.00
14	LS		Providing publicity / plantation board, planting equipment plant protection and documentation etc.,	LS	-				1233.00
Total									240000.00
Planting cost per Ha @ 1000 seedlings per Ha (with 10% seedlings for casuality replacement) with 10% escalation									264000.00
Cost of planting per ha @ 1000 seedlings per Ha									264.00


Forest Range Officer
Madurai Range,
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District Forest Officer,
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81-21
19.2.2021

MODEL ESTIMATE FOR RAISING FIRST YEAR MAINTENANCE NURSERY DURING 2021-22

Number of Seedlings =		110		Planting Area =		1		Ha	
No. of seedlings to be raised during 2021-22 = 100 Nos +10% Casualty =				100		+		10	
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =				449.65		/Day			
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)
1	16.50	M ²	Preparation of Nursery site by clearing and leveling the site for forming ten standard beds of size of 10m x 1m.	4.1	2.42	1088.15	200	M ²	90.00
2	0.220	Kgs	Cost of Seeds	MTP M.E	-	200.00	1	Kg	44.00
3	110.00	Nos.	Cost of Polythene Bags 13 cmx 25 cm x 250G	Tender Rate 2019-2020	-	944.00	1000	Nos	104.00
4	1	M ³	Forming Germination beds of size 10m x 1m x 0.3 m by heaping the soil	PWD SSR Item No.62	-	84.00	1	M ³	84.00
5	0.1	M ³	Watering germination beds twice daily with rose cans for 15 days	4.5.1	0.82	368.71	10	Beds/Day	55.00
	15	Day							
6	0.1	M ³	Watering germination beds Once daily with rose cans for 15 days	4.5.2	0.41	184.36	10	Beds/Day	28.00
	15	Day							
7	110.00	Nos.	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture - 4/5 th of the total volume	MTP M.E	-	750.00	1	M ³	82.00
	0.109	M ³							
8	110	Nos.	Cost and transport (Collection and supply) of farm yard manure for filling bags - 1/5th of the total volume	MTP M.E	-	750.00	1	M ³	28.00
	0.037	M ³							
9	110	Bags	Preparation of soil mixture by breaking clods. sieving and mixing of fertile earth (including red soil, silt and sand etc., according to requirements) and farmyard manure at 3:1 ratio, heaping at the filling site and filling in polythene bags arranging bags in beds and pricking out the seedlings (excluding cost of earth and farm yard manure)	4.6.4	4.48	2014.43	1000	Bags	222.00
10			Watering the container plants with rose cans watering regime as per the NHA1 ME approved by PCCF No.J1/57395/2003 dated:12.12.03						
a)	110		Watering the container plants twice daily with rose can (Water storage pits to be dug up within 10m-20m from beds) - 15 days	4.10.4	0.23	103.42	1000	Bags	171.00
	15								
b)	110	Nos	Watering the container plants once daily - 30 days	4.11.4	0.115	51.71	1000	Nos	171.00
	30	Day							
c)	110	Nos	Watering the container plants Alternate days - 15 days	4.11.4	0.115	51.71	1000	Nos	85.00
	15	Day							
11	110	Nos.	Cost of water for the Container seedlings from Private well in 60 Days	4.18.4	-	0.85	1000	Nos/ Day	6.00
	60	Day							
12	110	Bags	Shifting the container plants, weeding, grading and replacement of casualties in the bags- shifting to done once in 21 days, first shifting not before 45 days after pricking out -1 shifts.	4.15.4	0.51	229.32	1000	Shift	25.00
	1	Shift							
PART - II (Bags size 30 x 45 cm x 600 G)									
13	110	Nos	Cost of Polythene Bags 30cm x 45cm x 600G poly bags	Tender Rate 2020-2021	-	6549.00	1000	Nos	720.00
14	1.015	M ³	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture - 4/5th of the total volume (excluding the volume of earth in 13 x 25 cm containers)	LR	-	750.00	1.00	M ³	761.00
15	0.254	M ³	Cost and transport of Farm yard manure for filling bags - 1/5th of the total	LR	-	750.00	1.00	M ³	191.00

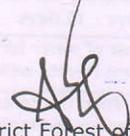
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
16	110		Preparation of soil mixture by breaking clods. seiving and mixing of fertile earth (including red soil, silt and sand etc., according to requirements) and farmyard manure at 3:1 ratio, heapitn at the fillign site and filling in polythene bags arranging bags in beds and pricking out the seedlings (excluding cost of earth and farmyard manure)	4.6.7	28.57	12846.50	1000	Bags	1413.00
17	110	Nos	Cost of Vermicasting @ 35 gm per Seedlings	Morden Nursery Dharmapuri Rate		10.00	1	Kg	39.00
	0.035	Kg							
18	110	Nos	Cost of Azospirillam @ 6 gm per seedlings	Morden Nursery Dharmapuri Rate		27.00	1	Kg	18.00
	0.006	Kg							
19	110	Nos	Cost of Phospho Bacteria @ 6 gm per seedlings	Morden Nursery Dharmapuri Rate		27.00	1	Kg	18.00
	0.006	Kg							
20	110	Nos	Cost of VAM @ 15 gm per Seedlings	Morden Nursery Dharmapuri Rate		18.00	1	Kg	30.00
	0.015	Kg							
21	110	Bags	Labour cost for transplanting seedlings from 13 x 25 cm container bags into 30 x 45 cm containers - 10 Maz /1000	-	-	449.65	100	1 Maz / day	495.00
22	110	Nos	Watering the container plants with rose cans watering regime as per the NHA1 ME approved by PCCF's ref.No.J1/57395/2003 dated:12.12.2003						
a)	110	Nos	Watering the container plants twice daily with rose can (Water storage pits to be dug up within 10m-20m from beds) - 60 daysWatering	4.10.7	0.56	251.80	1000	Day	1662.00
	60	Day							
b)	110	Nos	Watering the container plants once daily for 150 days	4.11.7	0.28	125.90	1000	Day	2077.00
	150	Day							
23	110	Nos	Shiting the container plance once in 21 days- first shift after 25 days from the date of transplanting 1 times.	4.15.7	2.69	1209.56	1000	Shift	133.00
	1	Time							
24	LS		Contingencies such as application of pesticides panchakavya for erection of board etc. and creating awareness	LS					248.00
TOTAL									9000.00
Nursery raising cost per Ha @ 1000 seedlings per Ha (with 10% seedlings for casualty replacement) with 10% escalation									9900.00
Prorata per seedling									90.00

Specification:

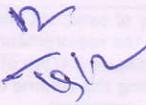
The above estimate is prepared based on Madurai Circle FSR and Model Estimate communicated by the PCCF, Chennai with escalation of 10% for every consecutive year from 2020-21

The above Model Estimate is prepared for planting 1000 plants per hectare. (with 10% seedlings for replacement of casualty). The cost arrived in this estimate is the prorata for planting per hectare of area.

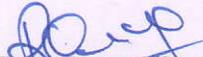

Forest Range Officer,
Madurai Range,
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District Forest officer,
Madurai Forest Division,
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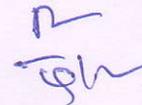


MODEL ESTIMATE FOR PLANTING FIRST YEAR MAINTENANCE DURING 2022-23										
No. of seedlings to be raised during 2022-23 = 100 Nos +10% Casualty =						100	+	10	100	Nos.
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =						449.65		Day		
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount	
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	
1	100	Nos	Digging 60 CM3 pits in all types of soils for avenue non-rainy season	5.8.1	9.26	4163.76	100	Nos	4164.00	
2	100	Nos	Cost fo transport fo poultry manure each plant 500 grams	LR	-	2.5	1	Kg	125.00	
3	100	Nos	Application of poultry manure @500g per plant by mixing in the pit before planting 1 mazdoor	LR	-	2	1	No	100.00	
4	100	Nos	Transporting saplings (transported to the radius of 40 Km) excluding loading and unloading	MTP M.E	-	7	1	No	700.00	
5	100	Nos	Loading and unloading the container seedlings (30 x 45 cm) in private lorry upto a lead of 2 Kms. Excluding hire charges for vehicles	5.11.7	3.29	1479.35	1000	Nos	148.00	
6	100	Nos	Distribution of container seedlings in the site container plants upto 200 Mts	5.16.2	30	13489.5	1000	Nos	1349.00	
7	100	Nos	Planting the container seedlings by refilling the pits of size 60 cm	5.22	1.71	768.902	100	Nos	769.00	
8	10	Nos	Replacement of casualties by re-opening the failed pits and planting the container plants and refilling the pits (1/2 pitting rate + full planting rate)	5.23		2504.55	100	Nos	250.00	
Maintenance of Seedlings planted during 2021-22										
9	1000	Nos	Scrap weeding for 1 metre dia and soil working 15cms depth around each plants and removing the grassroots away from the site or upturning the soil in plains	5.24	1.23	553.07	100	Nos	5531.00	
10	1000	Nos	Watering the planted seedlings once in a week during summer / non-rainy season from December to March @ one mazdoor for 200 plants / watering day (17 watering days)	NHAI M.E	-	449.65	200	Nos/Day	38220.00	
11	340000	Ltrs	Cost of water @ 20 liters per seedlings December to March 4 months) at the rate once in a week (20 x 1000 x 17)	NHAI M.E	-	1200	12000	Ltrs	34000.00	
12	1000	Nos	Engaging protection mazdoor @ 1 mazdoor / 1000 plants from December to March @ 25/days / month	FSR 2020-2021	-	449.65	1000	Plants/Maz	44965.00	
14	LS		Condignency for specific treatments required etc.,	LS	-				179.00	
TOTAL									130500.00	
Ist Year maintenance- Planting and maintenance cost of seedlings with 20% escalation									156600.00	


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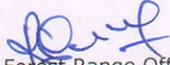


MODEL ESTIMATE FOR SECOND YEAR ESTIMATE DURING 2023-24

No.of seedlings to be Maintenance during 2023-24 =		1000	Nos						
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =						449.65	Day		
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)
1	1000	Nos	Watering the planted seedlings once in week from January to June @ one mazdoor for 200 plants / watering day (6 Months x 4 days = 24 days)	LR	NHAI ME	449.65	200	Nos	53958.00
	24	Days							
2	1000	Nos	Cost of water @ 20 liters per seedlings (January to June) @ the rate (6 Months x 4 days = 24 days)	LR	NHAI ME	1200	12000	ltrs	48000.00
	24	days							
	20	ltr							
3	L.S		Contingencies for unforeseen expenditure		L.S				142.00
TOTAL									102100.00
2nd year maintenance of seedlings with 30% escalation									132730.00

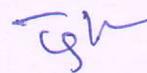
Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and 30% escalation requested for 2022-2023 years from 2020 - 21 and Model Estimate communicated by the PCCF


Forest Range Officer,
Madurai Range,
Madurai.


District Forest officer,
Madurai Forest Division
Madurai.

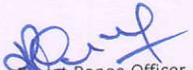

19.2.2021

MODEL ESTIMATE FOR THIRD YEAR MAINTENANCE DURING 2024-25										
No. of seedlings to be Maintenance during 2024-2025 =					1000	Nos				
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =							449.65	Day		
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount	
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	
2	1000	Nos	Watering the planted seedlings for 2 days in a month from January to June @ one mazdoor for 200 plants / watering day (6 Months x 2 days = 12 days)	LR	NHAI ME	449.65	200	Nos	26979.00	
	12	Days								
3	1000	Nos	Cost of water @ 20 liters per seedlings for 2 days in a month from January to June @ one mazdoor for 200 plants / watering day (6 Months x 2 days = 12 days)	LR	NHAI ME	1200	12000	ltrs	24000.00	
	12	days								
	20	ltr								
4	L.S		Contingencies for unforeseen expenditure		L.S				121.00	
TOTAL									51100.00	
3rd Year Maintenance of the planted seedlings with 40% escalation									71540.00	

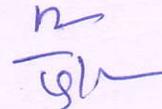
Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and Model Estimate communicated by the PCCF with 40% escalation calculated for this year from 2020 - 21


Forest Range Officer,
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District Forest officer,
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MODEL ESTIMATE FOR FOURTH YEAR MAINTENANCE DURING 2025-26

No.of seedlings to be Maintenance during 2025-26 =		1000	Nos						
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =						449.65			Day
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)
1	1000	Nos	Scrap weeding for 1 metre dia and soil working 15cms depth around each plants and removing the grassroots away from the site or upturning the soil in plains	5.24	1.23	553.07	100	Nos	5531.00
2	L.S		Contingencies for unforeseen expenditure to be decided by the departmental officer as per field requirement including replacement of casualties if any		L.S				4469.00
TOTAL									10000.00
Fourth year maintenance with 50% escalation						1 Ha	Rs.		15000.00

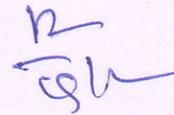
Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and 50% escalation requested for 2024-2025 years from 2020 - 21 and Model Estimate communicated by the PCCF


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Madurai Range,
Madurai.


District Forest officer,
Madurai Forest Division
Madurai.


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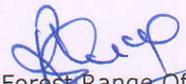
ESTIMATE FOR FIFTH YEAR MAINTENANCE DURING 2026-27										
No.of seedlings to be Maintenance during 2026-27					1000	Nos				
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =							449.65		Day	
S.N o	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount	
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	
1	1000	Nos	Scrap weeding for 1 metre dia and soil working 15cms depth around each plants and removing the grassroots away from the site or	5.24	1.23	553.07	100	Nos	5531.00	
2	1000	Nos	Concurrent Monitoring and Evaluation of the Plantation Programme by engaging by engaging resource persons from only reputed institutions including survival survey			LS			5000.00	
3	L.S		Contingencies for unforeseen expenditure		L.S				169.00	
TOTAL									10700.00	

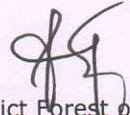
Fifth year maintenance with 60% escalation Rs.

17120.00

Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and 60% escalation requested for 2025-2026 years from 2020 - 21 and Model Estimate communicated by the PCCF


Forest Range Officer,
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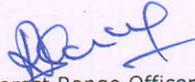

District Forest officer,
Madurai Forest Division
Madurai.

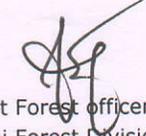

19.2.2021


MODEL ESTIMATE FOR SIXTH YEAR MAINTENANCE DURING 2027-28										
No. of seedlings to be Maintenance during 2027-28 =					1000	Nos				
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =							449.65	Day		
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount	
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	
1	1	Nos	Erecting Display Stainless steel Boards depicting the work at the plantation area depending on site requirements as per approved NHAI rates.	FSR	-	50000	1		50000.00	
2		L.S	Contingencies for unforeseen expenditure		L.S					
TOTAL:									50000.00	
Sixth year maintenance with 70% cost escalation Rs.									85000.00	

Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and 70% escalation requested for 2027-2028 years from 2020-21 and Model Estimate communicated by the PCCF


 Forest Range Officer,
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MODEL ESTIMATE FOR SEVENTH YEAR MAINTENANCE DURING 2028-29										
No.of seedlings to be Maintenance during 2028-29 =					1000	Nos				
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020 dated							449.65	Day		
							26.05.2020	=		
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	Unit	Amount	
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	
1	25 1000	Nos Plants	Erecting boundary stones (6ft tall) 100 m distance all around the plantation as station pillars to demarcate the plantation boundary	PWD SSR SI.No.41, Sch item No.29a & SI.No.22 Sch item No.22		545	1	Nos	13625.00	
2	L.S		Contingencies for unforeseen expenditure including application of anti termite if required or to be spent as per direction of departmental officer						375.00	
TOTAL									14000.00	
Seventh year maintenance with 80% cost escalation									Rs. 25200.00	

Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and 80% escalation requested for 2027-2028 years from 2020-21 and Model Estimate communicated by the PCCF


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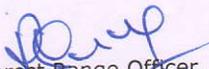


ESTIMATE FOR EIGHTH YEAR MAINTENANCE DURING 2029-30									
No.of seedlings to be Maintenance during 2029-30 =				1000	Nos				
Rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =							449.65	Day	
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)
1	1000	Nos	Pruning side branches twice in a year	-	NHAI ME	5	1	Nos	10000.00
	2	Times							
2	L.S		Contingencies for unforeseen		L.S				
TOTAL									10000.00

Eighth year maintenance with 90% escalation Rs. **19000.00**

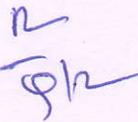
Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and 90% escalation from 2020-21 and Model Estimate communicated by the PCCF


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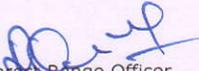


ESTIMATE FOR NINETH YEAR MAINTENANCE DURING 2030-31										
No.of seedlings to be Maintenance during 2030-31 = 1000					Nos					
Minimum rates of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =							449.65	Day		
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount	
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	
1	1000	Nos	Digging catch water trench near each plant against the sloping side for rain water harvesting	FSR	11	649.74	5	pit	129948.00	
2	L.S		Contingencies for unforeseen expenditure including application of anti termite		L.S				52.00	
TOTAL									130000.00	

Nineth Year Maintenance with 100% escalation 1 Ha Rs. **260000.00**

Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and 100% escalation from 2020 - 21 and Model Estimate communicated by the PCCF


Forest Range Officer,
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MODEL ESTIMATE FOR TENTH YEAR MAINTENANCE DURING 2031-32

No. of seedlings to be Maintenance during 2031-32 =		1000		Nos					
Minimum rate of wages 2020-21 Madurai District (APCCF, Madurai Ref.No:D1/4095/2020, Dt 26.05.2020) =		449.65		Day					
SI.No	Quantity	Unit	Name of Work	FSR /SSR	FSL	Rate	Per	unit	Amount
(1)	(2)	(4)	(5)	(6)		(7)	(8)	(9)	(10)
1	4	copy	Preparing Photo album of the work done as per design and direction of the District Forest Officer	LS		5000	1	Album	20000.00
2	1000	seedlings	Monitoring and Evaluation of the effectiveness of the plantation programme by engaging resource persons from only reputed institutions including any study on the afforestation work	LS		LS			10000.00
									30000.00

Tenth year maintenance with 110% escalation Rs. 63000.00

Specification:

The above estimate is prepared based on Madurai Circle FSR 2020-21 and 110% escalation from 2020 - 21 and Model Estimate communicated by the PCCF


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District Forest officer,
Madurai Forest Division
Madurai.


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