

ANNEXURE - IV

Estimate for Raising, Planting and 10 year maintenance of 650 Teak seedlings as
Compensatory Afforestation inside Maharajapuram Reserved Forests in
Kumbakonam Range of Thanjavur Forest division.

- (i). Estimate for Raising 650 Teak seedlings - Rs. 2,96,000/-
- (ii). Estimate for Planting 650 Teak seedlings - Rs. 2,44,000/-
- (iii). Estimate for 1st year maintenance of Teak plantation - Rs. 2,85,000/-
- (iv). Estimate for 2nd year maintenance of Teak plantation - Rs. 2,83,500/-
- (v). Estimate for 3rd year maintenance of Teak plantation - Rs. 2,83,350/-
- (vi). Estimate for 4th year maintenance of Teak plantation - Rs. 2,08,335/-
- (vii). Estimate for 5th year maintenance of Teak plantation - Rs. 2,00,833/-
- (viii). Estimate for 6th year maintenance of Teak plantation - Rs. 2,00,083/-
- (xi). Estimate for 7th year maintenance of Teak plantation - Rs. 2,00,008/-
- (x). Estimate for 8th year maintenance of Teak plantation - Rs. 2,00,000/-
- (xi). Estimate for 9th year maintenance of Teak plantation - Rs. 2,00,000/-
- (xii). Estimate for 10th year maintenance of Teak plantation - Rs. 2,00,000/-

Estimate for Raising Advance Teak Nursery for Teak Planting under Compensatory Afforestation in Kumbakonam Range of Thanjavur Division during 2021-22.

Species : Teak	Espacement : 4mx4m
Unit : 625 plants /Ha	Size of Polythene bags : 13x25x300G
Cost per Seedlings: Rs. 342.65/-	Total Nos. : 650 Nos
	10 % Replacement of casualties : 65 Nos
	Total : 715 Nos

Wage rate Rs. 460.25/per day for 2021-22.

Sl. No.	Description operation	FSR item No.	Mandays	Qty	Rate	Per Qty	Amount
1	Preparation of nursery site-by clearing and levelling the site for forming Five standard beds of 10mx1m size	4.1 2021-22	2.42	50 M ²	1113.81	50M ² (5 std beds)	556.905
2	Cost of polythene bags-size 13x25x300G	Tender rate	-	715 Nos	1000.00	1000 Nos	715.00
3	Cost of Teak seeds	Rate of Genetics	-	5 Kg	150.00	kg	750.00
4	Cost of Farmyard manure for beds including transport charges	TAF CORN FSR Item No.15	-	1 M ³	572.00	M ³	572.00
5	Formation of germination beds of 10mx 1 mx30cm with seeds supporting dibbling of seeds watering for the day and converting with straw excuting cost of manure	4.4 2021-22	2	5 Beds	920.50	Per Bed	4602.50
6	Watering the Mother beds						
a)	Watering the germination beds twice daily with rose can for 30 days	4.5.1 2021-22	0.82	5 Beds	377.41	10 Beds/ day	5661.00
b)	Watering the germination beds once daily with rose can 30 days	4.5.2 2021-22	0.41	5 Beds	188.7	10 Beds/ day	2831.00
c)	Watering the germination beds Alternate 60 days (30 W/d)	4.5.2 2021-22	0.41	5 Beds	188.7	10 Beds/ day	2831.00
d)	Watering the germination beds once in a week for 1 Months (4 W/d)	4.5.2 2021-22	0.41	5 Beds	188.7	10 Beds/ day	377.00
7	Purchase of fertile earth including red soil silt sand etc.,(1:2:1)	LMR		3 m ³	1000	per cum	3000.00
8	Preparation of soil moisture by breaking clouds sieving and mixing of fertile earth including red soil silt sand etc according to requirements and Farmyard manure heaping at the filling site and filling in polythene bags arranging begs in beds and pricking-out of the seedlings (Excluding cost of earth and farm yard manure)	4.6.4 2021-22	4.48	715 Nos	2061.92	1000	1474.00
9	Cost of Vermicosting @ 35g/Seedlings	As per Research wing rate	-	25.00 Kg	10.00	Per Kg	250.00
10	Cost of VAM @ 15g/Seedlings		-	11.00 Kg	18.00	Per Kg	198.00
11	Cost of Azosphirillam @ 6g/Seedlings		-	5.00 Kg	27.00	Per Kg	135.00
12	Cost of Phosphobacteria @ 6g/Seedlings		-	5.00 Kg	27.00	Per Kg	135.00
13	Forming temporary Shade pandals 10mx1m including collection of grasses, materials etc.,	4.9-2021- 22	1.00	5 Nos	460.25	Per pandal	2301.00

14	Preparation of teak stumps from 8-12 Months old seedlings and sowing in Container bags.	6.2 2021-22	6	715 Nos	2761.50	1000 Nos	1974.00
15	a. Watering the container teak stumps daily once for 30 days	4.11.4 2021-22	0.115	715/ 30 d Nos	52.93	1000 Nos	1135.00
16	b. Watering the container teak stumps alternate days for 60 days (30 days)	4.11.4 2021-22	0.115	715/ 30 d Nos	52.93	1000 Nos	1135.00
17	Shifting the container plants weeding, grading and replacement of causalities in the bags for 4 times	4.15.4 2021-22	0.51	715 Nos	234.73	1000/ Shift	671.00
18	Cost of water for watering seedlings from private wells(480days)	Peef ME	-	715 No	1.60	1000 Nos	549.00
19	Land rent for Nursery in Private lands for 16 Months	Peef ME	-	1000 m ²	86.00	40sq.m/ Month	34400.00
20	Watch and Ward for Protection in the Nursery for 480days.	FSR 2021-22	-	715 Nos	460.25	Nos	220920.00
21	Documentation Charges Viz., Nursery Journal, Photo album, Videos.	LS	-	-	-	-	4000.00
22	Contingencies Spraying pesticides etc. Land rent and Cost of Water etc., at Nursery site. (within 2% of the total cost)	L.S	-	-	-	-	4827.00
	Total						296000.00

(Rupees Two lakhs and Ninty six thousands Only)

Specifcation :

- 1) Item No. 1, 5, 6, 7, 8 & 13, the rate provided in this Estimate is as per the FSR 2019-20 approved by CF, Thanjavur.
- 2) Item No. 10, 11, 12 & 13a, the rate provided in this Estimate is as per the FSR 2020-21 approved by CF, Thanjavur.
- 3) Item No. 2 - The rate provided is as per the tendor rate 2018-19.
- 4) Item No. 3 The rate provided is as per the Genetics, Coimbatore.
- 5) Item No. 4 & 9. The rates provided in this Estimate is as per TAF CORN CSR 2017-18.
- 6) Item No. 14 is for unforeseen expenditure within the prescribed limit.

All the above item of works are very essential for raising Teak Nursery for Padugai Teak Plantation in Thiruvavur division.

Justification: For 2019-20 financial year, the nursery raising cost per seedling was Rs. 16.00/- @ Rs. 326.50/per day/as per the 2018-19 FSR. At present, the nursery raising cost per seedling is Rs. 19.00/- @ Rs. 418.40/per day/as per the 2019-20 FSR.

The Seedling production cost for the financial year 2020-21 is increased by 18.75% compared to 2019-20 seedling production cost, which is justified with increased wage rate of 28.15% when compared to 2018-19 financial year wage rate of Rs. 326.50/per day.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur

[Signature]
District Forest Officer,
Thanjavur Division,
Thanjavur

[Signature]
Forest Range Officer
Kumbakonam Range
Kumbakonam

[Signature]
26.7.2021

Estimate for Raising Teak Plantation in Kumbakonam Range of Thanjavur Division
Under CAMPA Scheme during 2021- 2022

Species : Teak

Unit : 200/Ha

Area : 5600sqm

Prorata per ha = Rs. 375.38/-

Espacement : 4 m x 4m

Size of Polythene bags : 13x25x200G

Total No.of plants to be Planted : 650 Nos.

10% Casualities Ceplacement : 65 Nos.

Total = 715 Nos.

Sl. No	Description	FSR Item	Quantity		Rate (Rs.)	Per	Amount
1	Clearing the planting site cutting and clearing uprooting in the canal bank areas for light to medium growth.	Pwd SSR - 2020-21	5600	sq.m	6.70	Sqm	37520.00
2	Aligning and marking plans and tank beds	5.2.1 / 2021-22	650	Nos	635.15	1000 Nos	413.00
3	Digging 45 cm ³ pits in canal bank for planting	5.6.2 / 2021-22	650	Nos	1486.61	100 Nos	9663.00
4	Transporting of Teak container plants upto a lead of 20 Km in Private Vehicle.	Local Rate	715	Nos	2500.00	Minimum rate	2000.00
5	Transporting of Teak container plants by head loads in the places where approach roads not available to take vehicles to planting site	5.13.2 (ii)	715	Nos	1652.30	1000 Nos	1181.00
6	Loading and unloading of Container plants	5.11.4	715	Nos	704.18	1000 Nos	503.00
7	Distribution of container plants						
	I. Up to 100mt	5.15.1	358	Nos	777.82	1000 Nos	278.00
	II. Up to 200mt	5.15.2	358	Nos	1035.56	1000 Nos	371.00
8	Planting teak container seedlings in 45 cm ³ pits	5.21	650	Nos	529.29	100 Nos	3440.00
9	Application of DAP 50gram per pit at the time of Planting.	LMR	30	Kgs	40.00	per kg	1200.00
10	Watering daily with one pot of water for 1st 14 days from the date of planting (Effective 14 days)	TAFORN Rate Item No.54/ 2020-21	650 7days	Nos	1310	1000Nos/ day	11921.00
11	Watering alternate days with one pot of water for 1st 14 days from the date of planting (Effective 7 days)	TAFORN Rate Item No.54/ 2020-21	650 7days	Nos	1310	1000Nos/ day	5961.00
12	Watering during dry season once in five days from January 2021 to March 2021 (18 w/days)	TAFORN Rate Item No.54/ 2020-21	650 18days	Nos	1310	1000/ day	15327.00

13	Digging wells by open excavation in river bed where water table is less than 3.00 m depth and 4 m dia one well for 200 plants or stumps (each of 1.5Mt depth)	Wage rate / 2020-21	1	Nos	460.25	1No	460.00
14	Replacement of casualties	5.23 / 2020-21	65	Nos	1272.60	100 Nos	827.00
15	Scrap weeding for 1Mt dia and removing to 15cm depth around each plant and removing the grass root from the site up turning the soil both in the plains and hillocks. (Two times) Note: Whether done for first time or second time the same rate	5.24 / 2020-21	650	Nos	543.23	100 Nos	7062.00
16	Prunning of side water shoots and plugging of buds to avoid branching at a interval of 3 months from the date of planting.	LR	650	Nos	460.25	50 No.	5983.00
17	Protection watch and ward from the date of planting for 8 months. (1.0No./2000 Nos for 30x8x1=240 days)	As per 2020-21 Wage rate	1.00 / 240 days	No/Ha	460.25	1No. /each	110460.00
18	i) Application of bio-fertilizer to the plant @ 25g per plants including cowdung	G.O.Ms No.339 E&F Fr VI dt.16.12.06	17	Kgs	50.00	1 Kg	850.00
19	Cost of Poultry Manure @ 250 gms Per Plant including transportation	TAFCON FSR Item No. 14 / 2017-18	163	Kgs	20.00	1 Kg	3260.00
20	Application of Poultry Manure @ 200 gms Per Pit	FSR TNJ / 2020-21	650	Nos	460.25	Minimum rate	1000.00
21	Erection of Name board	G.O.Ms. No. 339 E & F FR. VI Dt. 6.12.06	1.00	No.	-	1 No	10000.00
22	Documentation Charges Viz., Nursery Journal, Photo album, Videos.	LS	-	-	-	-	10000.00
23	Contingencies for unforeseen expenses, Pesticides, Fungicide, etc.,	LS	LS	LS	-	-	4320.00
Total							244000.00

Specification

- Item No. 1, 2, 3, 5, 6, 7, 8, 11, 12, 13, 15 & 18. The rates provided in this Estimate is as per FSR 2020-21 approved by CF, Thanjavur.
- Item No. 9, 10, 17. The rates provided in this Estimate is as per TAFCON FSR 2017-18.
- Item No. 14, 16, 19 as per the GO -339 (E&F) FR VI date 06.12.2006.
- Item No. 4 is Local rate with reference to quotations.
- Item No. 20 is Unforeseen expenditure actuals.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur

District Forest Officer,
Thanjavur Division,
Thanjavur

Forest Range Officer
Kumbakonam Range

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26.7.2021

Estimate for First Year Maintenance of Teak Plantation raised under CAMPA in Kumbakonam Range of Thanjavur Division during 2021-22.

Species : Teak

Unit : 200/Ha

Area : 5600sqm

Prorata per ha = Rs. 26088.00/-

Espacement : 4 m x 4m

Size of Polythene bags : 13x25x200G

Total No. of Survival Plants : 585 Nos.

10% Casualties Replacement : 65 Nos.

Total No. of Plants = 650 Nos

Sl. No.	Description	FSR Item	Qty		Rate (Rs.)	Per	Amount
1	Field Watering during dry season as and when watering is required to the Plants from 1st April to 30th September once in five days (36 w/ days)	G.O.(D) No.297 E&F Fr VI	650	Nos	1500	500 Nos	70200.00
2	Weekly Watering during dry season from 1st January to 31st March (13 w/days)	G.O.(D) No.297 E&F Fr VI	650	Nos	1500	500 Nos	25350.00
3	Cost of Teak Seedlings(30x45/400gauge)	-	65	Nos	30	Each	1950.00
4	Replacement of casualties by reopening the failed pits and planting the seedling (10% of total seedling).	5.23 /2021-22	65	Nos	1272.60	100 seedling	827.00
5	Repairing the fencing	LS	300	mtr	20	per mtr	6000.00
6	Scrap weeding for 1Mt dia and removing to 15cm depth around each plant and removing the grass root from the site up turning the soil both in the plants and hillocks. Note: Whether done for first time or second time the same rate	5.24/2021-22	650	2Time	566.11	100 Nos	7360.00
7	Protection watch and ward from 1 st April to 31 st March(365 Mandays).	As per 2021-22 Wage rate	1	-	460.25	1No./day	167991.00
8	i) Application of bio-fertilizer/DAP to the plant @ 50g per plants including application charge.	G.O.Ms No.339 E&F Fr VI dt.16.12.06	33	Kgs	75.00	1 Kg	2475.00
9	Contingencies for unforeseen expenses, Pesticides, Fungicide, etc.,	LS	-		-	-	2847.00
Total							285000.00

Specification

- 1) Item No. 01, 02, 08 provided as per G.O.No.297 E&F, FR.VI Dt. 15.10.2007
- 2) Item No. 04, 06, 07 provided as per the FSR 2020-21.
- 3) Item No. 03, 05 were most essential for Carrying out maintenance of Teak Plantation.

Hence this estimate may be allowed and approved.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur

District Forest Officer.
Thanjavur Division,
Thanjavur

Forest Range Officer
Kumbakonam Range
Kumbakonam

30.07.2021

26.7.2021

**Estimate for Second Year Maintanance of Teak Plantation raised under CAMPA in Kumbakonam
Range of Thanjavur Division during 2021-22.**

Species : Teak
Unit : 200/Ha
Area : 5600sqm

Espacement : 4 m x 4m
Size of Polythene bags : 13x25x200G
Total No.of Survival Plants : 650 Nos.

Sl. No.	Description	FSR Item	Qty		Rate (Rs.)	Per	Amount
1	Field Watering during dry season as and when watering is required to the Plants from 1st April to 30th September once in five days (36 w/ days)	G.O.(D) No.297 E&F Fr VI	650	Nos	1500	500 Nos	70200.00
2	Scrap weeding for 1Mt dia and removing to 15cm depth around each plant and removing the grass root from the site up turning the soil both in the plants and hillocks. Note: Whether done for first time or second time the same rate	5.24/2021-22	650	2Time	566.11	100 Nos	7360.00
3	i) Application of bio-fertilizer/DAP to the plant @ 50g per plants including application charge.	G.O.Ms No.339 E&F Fr VI dt.16.12.06	33	Kgs	75.00	1 Kg	2475.00
4	Pruning of side branches to attain straight pole.	LR	650	Nos	460.25	50 No.	5983.00
5	Protection watch and ward from 1 st April to 31 st March(365 Mandays).	As per 2021-22 Wage rate	1	-	460.25	1No./day	167991.00
6	Contingencies for unforeseen expenses, Pesticides, Fungicide, etc.,	LS	-		-	-	991.00
7	Escalation -10% in 1st year expenses						28500.00
Total							283500.00

Specification

- 1) Item No. 01, 02, 08 provided as per G.O.No.297 E&F, FR.VI Dt. 15.10.2007
- 2) Item No. 04, 06, 07 provided as per the FSR 2020-21.
- 3) Item No. 03, 05 were most essential for Carring out maintanance of Teak Plantation.

Hence this estimate may be allowed and approved.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur

Suman
**District Forest Officer,
Thanjavur Division,
Thanjavur**

30.07.2021

26.7.2021
**Forest Range Officer
Kumbakonam Range
Kumbakonam**

Estimate for Third Year Maintanance of Teak Plantation raised under CAMPA in Kumbakonam
Range of Thanjavur Division during 2021-22.

Species : Teak
Unit : 200/Ha
Area : 5600sqm

Espacement : 4 m x 4m
Size of Polythene bags : 13x25x200G
Total No.of Survival Plants : 650 Nos.

Sl. No.	Description	FSR Item	Qty		Rate (Rs.)	Per	Amount
1	Field Watering during dry season as and when watering is required to the Plants from 1st April to 30th September once in five days (36 w/ days)	G.O.(D) No.297 E&F Fr VI	650	Nos	1500	500 Nos	70200.00
2	Scrap weeding for 1Mt dia and removing to 15cm depth around each plant and removing the grass root from the site up turning the soil both in the plants and hillocks. Note: Whether done for first time or second time the same rate	5.24/2021-22	650	2Time	566.11	100 Nos	7360.00
3	i) Application of bio-fertilizer/DAP to the plant @ 50g per plants including application charge.	G.O.Ms No.339 E&F Fr VI dt.16.12.06	33	Kgs	75.00	1 Kg	2475.00
4	Pruning of side branches to attain straight pole.	LR	650	Nos	460.25	50 No.	5983.00
5	Protection watch and ward from 1 st April to 31 st March(365 Mandays).	As per 2021-22 Wage rate	1	-	460.25	1No./day	167991.00
6	Contingencies for unforeseen expenses, Pesticides, Fungicide, etc.,	LS	-		-	-	991.00
7	Escalation -10% in 2nd year expenses						28350.00
Total							283350.00

Specification

- 1) Item No. 01, 02, 08 provided as per G.O.No.297 E&F, FR. VI Dt. 15.10.2007
- 2) Item No. 04, 06, 07 provided as per the FSR 2020-21.
- 3) Item No. 03, 05 were most essential for Carring out maintanance of Teak Plantation.

Hence this estimate may be allowed and approved.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur

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District Forest Officer,
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Thanjavur

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30.07.2021

[Signature]
Forest Range Officer
Kumbakonam Range
Kumbakonam

[Signature]
26.7.2021

Estimate for Fourth Year Maintenance of Teak Plantation raised under CAMPA in Kumbakonam Range of Thanjavur Division during 2021-22.

Species : Teak
Unit : 200/Ha
Area : 5600sqm

Espacement : 4 m x 4m
Size of Polythene bags : 13x25x200G
Total No.of Survival Plants : 650 Nos.

Sl. No.	Description	FSR Item	Qty		Rate (Rs.)	Per	Amount
1	i) Application of bio-fertilizer/DAP to the plant @ 100g per plants including application charge.	G.O.Ms No.339 E&F Fr VI dt.16.12.06	66	Kgs	75.00	1 Kg	4950.00
2	Prunning of side branches to attain straight pole.	LR	650	Nos	460.25	50 No.	5983.00
3	Protection watch and ward from 1 st April to 31 st March(365 Mandays).	As per 2021-22 Wage rate	1	-	460.25	1No./day	167991.00
4	Contingencies for unforeseen expenses, Pesticides, Fungicide, etc.,	LS	-		-	-	1076.00
5	Escalation -10% in 3rd year expenses						28335.00
Total							208335.00

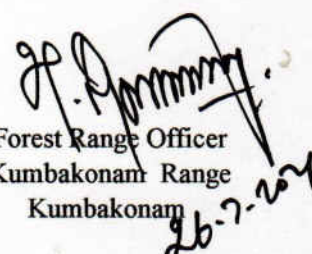
Specification

- 1) Item No. 01, 02, 08 provided as per G.O.No.297 E&F, FR.VI Dt. 15.10.2007
- 2) Item No. 04, 06, 07 provided as per the FSR 2020-21.
- 3) Item No. 03, 05 were most essential for Carring out maintanance of Teak Plantation.

Hence this estimate may be allowed and approved.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur


 Forest Range Officer
 Kumbakonam Range
 Kumbakonam


 District Forest Officer.
 Thanjavur Division,
 Thanjavur

Estimate for Fifth Year Maintenance of Teak Plantation raised under CAMPA in Kumbakonam Range of Thanjavur Division during 2021-22.

Species : Teak
Unit : 200/Ha
Area : 5600sqm

Espacement : 4 m x 4m
Size of Polythene bags : 13x25x200G
Total No. of Survival Plants : 650 Nos.

Sl. No.	Description	FSR Item	Qty		Rate (Rs.)	Per	Amount
1	i) Application of bio-fertilizer/DAP to the plant @ 100g per plants including application charge.	G.O.Ms No.339 E&F Fr VI dt.16.12.06	66	Kgs	75.00	1 Kg	4950.00
2	Prunning of side branches to attain straight pole.	LR	650	Nos	460.25	50 No.	5983.00
3	Protection watch and ward from 1 st April to 31 st March(365 Mandays).	As per 2021-22 Wage rate	1	-	460.25	1No./day	167991.00
4	Contingencies for unforeseen expenses, Pesticides, Fungicide, etc.,	LS	-		-	-	1076.00
5	Escalation -10% in 4 th year expenses						20833.00
Total							200833.00

Specification

- 1) Item No. 01, 02, 08 provided as per G.O.No.297 E&F, FR.VI Dt. 15.10.2007
- 2) Item No. 04, 06, 07 provided as per the FSR 2020-21.
- 3) Item No. 03, 05 were most essential for Carrying out maintenance of Teak Plantation.

Hence this estimate may be allowed and approved.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur

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Forest Range Officer
Kumbakonam Range
Kumbakonam

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District Forest Officer,
Thanjavur Division,
Thanjavur

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20.07.2021

Estimate for sixth Year Maintanance of Teak Plantation raised under CAMPA in Kumbakonam Range of Thanjavur Division during 2021-22.

Species : Teak

Espacement : 4 m x 4m

Unit : 200/Ha

Size of Polythene bags : 13x25x200G

Area : 5600sqm

Total No.of Survival Plants : 650 Nos.

Sl. No.	Description	FSR Item	Qty		Rate (Rs.)	Per	Amount
1	i) Application of bio-fertilizer/DAP to the plant @ 100g per plants including application charge.	G.O.Ms No.339 E&F Fr VI dt.16.12.06	66	Kgs	75.00	1 Kg	4950.00
2	Prunning of side branches to attain straight pole.	LR	650	Nos	460.25	50 No.	5983.00
3	Protection watch and ward from 1 st April to 31 st March(365 Mandays).	As per 2021-22 Wage rate	1	-	460.25	1No./day	167991.00
4	Contingencies for unforeseen expenses, Pesticides, Fungicide, etc.,	LS	-		-	-	1076.00
5	Escalation -10% in 5 th year expenses						20083.00
Total							200083.00

Specification

- 1) Item No. 01, 02, 08 provided as per G.O.No.297 E&F, FR.VI Dt. 15.10.2007
 - 2) Item No. 04, 06, 07 provided as per the FSR 2020-21.
 - 3) Item No. 03, 05 were most essential for Carring out maintanance of Teak Plantation.
- Hence this estimate may be allowed and approved.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur


 Forest Range Officer
 Kumbakonam Range
 Kumbakonam


 District Forest Officer.
 Thanjavur Division,
 Thanjavur


 30.07.2021

**Estimate for seventh Year Maintanance of Teak Plantation raised under CAMPA
in Kumbakonam Range of Thanjavur Division during 2021-22.**

Species : Teak
Unit : 200/Ha
Area : 5600sqm

Espacement : 4 m x 4m
Size of Polythene bags : 13x25x200G
Total No.of Survival Plants : 650 Nos.

Sl. No.	Description	FSR Item	Qty		Rate (Rs.)	Per	Amount
1	i) Application of bio-fertilizer/DAP to the plant @ 100g per plants including application charge.	G.O.Ms No.339 E&F Fr VI dt.16.12.06	66	Kgs	75.00	1 Kg	4950.00
2	Prunning of side branches to attain straight pole.	LR	650	Nos	460.25	50 No.	5983.00
3	Protection watch and ward from 1 st April to 31 st March(365 Mandays).	As per 2021-22 Wage rate	1	-	460.25	1No./day	167991.00
4	Contingencies for unforeseen expenses, Pesticides, Fungicide, etc.,	LS	-	-	-	-	1076.00
5	Escalation -10% in 6th year expenses						20008.00
Total							200008.00

Specification

- 1) Item No. 01, 02, 08 provided as per G.O.No.297 E&F, FR.VI Dt. 15.10.2007
- 2) Item No. 04, 06, 07 provided as per the FSR 2020-21.
- 3) Item No. 03, 05 were most essential for Carring out maintanance of Teak Plantation.
Hence this estimate may be allowed and approved.

C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur

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Forest Range Officer
Kumbakonam Range

[Signature]
District Forest Officer,
Thanjavur Division,
Thanjavur

[Signature]
26.7.2021

Species :	Teak	Espacement	: 4 m x 4m
Unit :	200/Ha	Size of Polythene bags	: 13x25x200G
Area :	5600sqm	Total No.of Survival Plants :	650 Nos.

Specification

- C. No.510 /2021dt.26.07.2021

Forest Range Officer
Kumbakonam Range
Kumbakonam
26.7.2022

District Forest Officer
Thanjavur Division,
Thanjavur

30.07.24

Species :	Teak	Espacement	: 4 m x 4m
Unit :	200/Ha	Size of Polythene bags	: 13x25x200G
Area :	5600sqm	Total No.of Survival Plants :	650 Nos.

Specification

- C. No.510 /2021dt.26.07.2021

Forest Range Officer
Kumbakonam Range

District Forest Officer.
Thanjavur Division,
Thanjavur

30.07.2021

Species : Teak	Espacement	: 4 m x 4m
Unit : 200/Ha	Size of Polythene bags	: 13x25x200G
Area : 5600sqm	Total No.of Survival Plants :	650 Nos.

Specification

- C. No.510 /2021dt.26.07.2021

Submitted to the District Forest Officer, Thanjavur Division, Thanjavur

Forest Range Officer
Kumbakonam Range
Kumbakonam, .

District Forest Officer,
Thanjavur Division,
Thanjavur

19-002
20-07-2021

ANNEXURE - V

Estimate for Providing Chain Link Fencing to Compensatory Afforestation Plantation site inside Maharajapuram Reserved Forests in Kumbakonam Range of Thanjavur Forest division.

Estimate Amount - Rs. 3,20,000/-

(Note: The Estimate is prepared based on PWDSSOR 2020-21 since PWDSSOR for the year 2021-22 is yet to be received)

**PROVIDING CHAIN LINK FENCING AT MAHARAJAPURAM RE CAMPA PLANTING SITE IN
KUMBAKONAM RANGE OF THANJAVUR DIVISION.**

ABSTRACT

Estimate amount Rs. 320000/-

Sl.No	Quantity		Description	Rate	Unit	Amount
1	13.03	M ³	EARTHWORK EXCAVATION for foundation in all soils and sub soils and to full depth as may be directed except in rock requiring blasting, but inclusive of shoring, strutting and baling out water wherever necessary and refilling the sides of foundation with excavated earth in layers of not more than 15 cm thick, well rammed and consolidated and depositing the surplus earth within the compound in places shown by the departmental officers with initial lead and lift etc., complete complying with standard specifications and drawings.	100.80	1 M ³	1313.00
2	4.34	M ³	PLAIN CEMENT CONCRETE 1:5:10 (One cement, Five sand and Ten aggregate) using 40 mm gauge hard broken granite stone jelly, for FOUNDATION including dewatering if found necessary and laid in layers of not more than 15 cm thick etc., complete complying with standard specification.	5914.33	1 M ³	25668.00
3	171.00	Nos	Supplying and fixing of cut stone pillar at a size of 0.15mtrx0.15mtrx2.10mtr from approved quarry ncluding all cost and conveyence etc complete as per standard specification	161.00	1 No	27531.00
4	16.31	M ³	Plain cement concrete 1:3:6 mix using 20mm size ISS HBG gauge metal for foundation and flooring concrete including all cost and conveyence etc complete as per standard specification	7692.96	1 M ³	125472.00
5	456.00	M ²	Supplying and fixing of chain link fencing at a size of 2" x 2" as per standard and elongnation of standard with using using 10 gauge including necessary binding wire and all cost etc complete	163.71	1 M ²	74652.0
6	219.60	Kg	Supplying and fabrication of barbed wire with 2 ply with proper interval including all cost and complete ect complete	127.64	1 Kg	28031.00
						282667.00
7	LS		Add GST 12%			33920.04
8	LS		Manual Labour 1%			2826.67
9	LS		Contingencies			586.29
			Total			320000.00

District Forest Officer.
Thanjavur Division,
Thanjavur

Jm. P. 2
22.07.2021

**PROVIDING CHAIN LINK FENCING AT MAHARAJAPURAM RF CAMPA PLANTING SITE IN
KUMBAKONAM RANGE OF THANJAVUR DIVISION.**

Detailed Estimate

Estimate Amount : Rs. 3.20 lakhs

Sl. No	Description of work	No			Measurement Details			Total
					Length	Breath	Depth	
1	Earth work open excavation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the excavated earth with a lead of 10 mts. within the compound in places shown by the departmental officers and clearing and levelling the site, etc., complete complying with standard specification.							
	For East vertical post	1	x	35	0.60	0.60	0.60	7.56
	For South vertical post	1	x	38	0.60	0.60	0.60	8.21
	For West vertical post	1	x	29	0.60	0.60	0.60	6.26
	For North vertical post	1	x	41	0.60	0.60	0.60	8.86
	Total			143				30.89 M³
2	Plain cement concrete 1:5:10 mix using 40mm size ISS HBG gauge metal for foundation and flooring concrete including all cost and conveyence etc complete as per standard specification							
	For East vertical post	1	x	35	0.45	0.45	0.15	1.06
	For South vertical post	1	x	38	0.45	0.45	0.15	1.15
	For West vertical post	1	x	29	0.45	0.45	0.15	0.88
	For North vertical post	1	x	41	0.45	0.45	0.15	1.25
	Total			143				4.34 M³
3	Supplying and fixing of cut stone pillar at a size of 0.15mtrx0.15mtrx2.10mtr from approved quarry including all cost and conveyence etc complete as per standard specification							
	For vertical post	1	x	143	0.15	0.15	2.10	6.76
	For support side post	1	x	28	0.15	0.15	2.10	1.32
	Total			171				8.08 M³
								171.00 nos
4	Plain cement concrete 1:2:4 mix using 20mm size ISS HBG gauge metal for foundation and flooring concrete including all cost and conveyence etc complete as per standard specification							
	For vertical post portion	1	x	143	0.60	0.60	0.45	23.17
	Deduction	-1	x	143	0.15	0.15	0.45	-1.45
	Total							21.72 M³
5	Supplying and fixing of chain link fencing at a size of 2" x 2" as per standard and elongnation of standard with using 10 gauge including necessary binding wire and all cost etc complete							
	For fencing portion (74+80+60+86=300)	1	x	1	300.00	-	1.75	525.00
	Total							525.00 M²
6	Supplying and fabrication of barbed wire with 2 ply with proper interval in bottom, middle and top including stiching and threading all cost and complete ect., (1Kg/6Rm)							
	For two ply	1	x	3	300.00			900.00 RM
	For zigzag	1	x	143	2.90			414.70 RM
								1314.70 RM
								(or) 219.6 KG
	Total							219.60 Kg
7	Add GST 12%							
8	Manual Labour 1%							

District Forest Officer,
Thanjavur Division,
Thanjavur

DATA SHEET

PROVIDING CHAIN LINK FENCING AT MAHARAJAPURAM RF CAMPA PLANTING SITE IN KUMBAKONAM RANGE OF THANJAVUR DIVISION.

Quantity	Description of work	Rate	Per	Amount
Cost of Cement mortar 1:1.5 mix - rate for 1 Cu.m				
960 kg	Cost of cement	5800.00 MT		5568.00
1 Cum	Cost of M.sand	2125.20 Cum		2125.20
				<u>7693.20</u>
	Rate	7693.20	/ Cum	
Cost of Cement mortar 1:2 mix - rate for 1 Cu.m				
720 kg	Cost of cement	5800.00 MT		4176.00
1 Cum	Cost of M.sand	2125.20 Cum		2125.20
1 Cum	Mixing charges (PWD SOR Page 34 SI no 165)	87.00 Cum		87.00
				<u>6388.20</u>
	Rate	6388.20	/ Cum	
Cost of cement mortar 1:3 mix - rate for 1 cum				
480 kg	Cost of cement	5800.00 MT		2784.00
1 Cum	Cost of M.sand	2125.20 Cum		2125.20
1 Cum	Mixing charges (PWD SOR Page 34 SI no 165)	87.00 Cum		87.00
				<u>4996.20</u>
	Rate	4996.20	/ Cum	
Cost of cement mortar 1:4 mix - rate for 1 cum				
360 kg	Cost of cement	5800.00 MT		2088.00
1 Cum	Cost of M.sand	2125.20 Cum		2125.20
				<u>4213.20</u>
1 Cum	Mixing charges	87.00 Cum		87.00
				<u>4300.20</u>
	Rate	4300.20	/ Cum	
Cost of cement mortar 1:5 mix - rate for 1 cum				
288 kg	Cost of cement	5800.00 MT		1670.40
1 Cum	Cost of sand	2125.20 Cum		2125.20
				<u>3795.60</u>
1 Cum	Mixing charges	87.00 Cum		87.00
				<u>3882.60</u>
	Rate	3882.60	/ Cum	

MAIN DATA

1	HGS SS.20.B. Earth work excavating and depositing on bank with initial lead of 10 m & initial lift of 2m in Hard stiff clay, stiff black cotton, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders SS.20B (PWD SOR Page 26 SI 61)				
	<u>SINGLE THE RATE = Rs.</u>		84.00	<u>/Cu.m</u>	
	<u>Added 20 % Extra for RF areas</u>		16.80		
	Rate for Rs		100.80	/ Cum	

	Quantity		Description of work	Rate	Per	Amount
2			Filling with good P. sand including cost and conveyance of sand to work site including all labour charges for filling etc complete - Rate for 1 cum			
	1	cum	Cost of P. Sand filling	2125.20	Cum	2125.20
	1	cum	Filling charges (SI no 75 Page no 28)	25.70	Cum	25.70
						2150.90
				Rate for Rs	2150.90	/ Cum
			<u>Added 20 % Extra for RF areas</u>		430.18	
			Rate for Rs	2581.08	/ Cum	
3			Cement concrete 1:5:10 mix using 40mm HBG metal including cost and conveyance of all materials to site including all labour charges for filling etc complete - rate for 10 cu.m			
	9.00	Cum	40mm HBG metal	1758.60	Cum	15827.40
	4.50	Cum	Cm 1:5 mix	3882.60	Cum	17471.70
	1.80	Nos	Mason IInd class	718.00	each	1292.40
	17.70	Nos	Mazdoor 1	502.00	each	8885.40
	14.10	Nos	Mazdoor 2	412.00	each	5809.20
						49286.10
			Rate	Rate	4928.61	/ Cum
			<u>Added 20 % Extra for RF areas</u>		985.72	
			Rate for Rs	5914.33	/ Cum	
4			Cement concrete 1:2:4 mix using 20mm HBG metal including cost and conveyance of all materials to site including all labour charges for filling etc complete - rate for 10 cu.m			
	9.00	Cum	20mm HBG metal	2152.60	Cum	19373.40
	4.50	Cum	Cm 1:2 mix	6388.20	Cum	28746.90
	1.80	Nos	Mason IInd class	718.00	each	1292.40
	17.70	Nos	Mazdoor 1	502.00	each	8885.40
	14.10	Nos	Mazdoor 2	412.00	each	5809.20
					L.S.	0.70
						64108.00
			Rate	Rate	6410.80	/ Cum
			<u>Added 20 % Extra for RF areas</u>		1282.16	
			Rate for Rs	7692.96	/ Cum	
5			Supplying and erection of chain link fencing with using size 2" x 2" with using 10 kg galvanized iron wire including all cost and conveyance charges, etc.,			
	10.00	sq.m.	Chain link - 2" x 2" using 10 Gauge Galvanized Iron wire	157.20	sq.m.	1572.00
				Rate for 10 cum		1572.00
				Rate.	157.20	/ Sqm
			<u>Add for cutting, bending, wdges, etc</u>		6.51	
			Rate for Rs	163.71	/ Sqm	

	Quantity		Description of work	Rate	Per	Amount
6	Supplying and fabrication of barbed wire with 2 ply with proper interval in bottom, middle and top including stitching and threading all cost and complete ect., (1Kg/6Rm)					
	10.00	Kg	Barbed Wire - 10 Gauge - Two Ply and Four Pronged (Galvanised)	60.90	sq.m.	609.00
	0.30	Nos	Fitter I class	679.00	Nos	203.70
	0.50	Nos	Mazdoor I class	502.00	Nos	251.00
				Rate for 10 kg		1063.70
				Rate.	106.37	/ Kg
			<u>Added 20 % Extra for RF areas</u>		21.27	
				Rate for Rs	127.64	/ Kg or 6RM


 Forest Range Officer
 Kumbakonam Range
 Kumbakonam
 26.07.2019


 District Forest Officer
 Thanjavur Division,
 Thanjavur


 30.07.2019

LEAD STATEMENT								
Sl.No	Name of the material	Source of Place	Restricted Distance in Km.	Rate	Unit	Incidental Charges	Lead Charges	Total cost
1	Cement	Thanjavur	At site	5800.00	MT	0.00	0.00	5800.00
2	M-Sand for filling	Pudukkottai	120	1250.00	1M ³	0.00	875.20	2125.20
3	HGB 40mm ISS metal	Valavanthankottai	100	1004.00	M ³	0.00	754.60	1758.60
4	HGB 20mm ISS metal	Valavanthankottai	100	1398.00	M ³	0.00	754.60	2152.60

1 Certified that the lead particulars furnished above are the shortest route and correct to the best of my knowledge.

2 Certified that the rates provided above are as per PWD SOR for the year 2020-21 since PWDSOR is yet to be received for the year 2021-22

District Forest Officer,
Thanjavur Division,
Thanjavur

[Signature]
20.07.2021

[Signature]
Forest Range Officer
Kumbakonam Range
Kumbakonam