

TAMIL NADU FOREST DEPARTMENT

From

Thiru.Sewa Singh, I.F.S.,
Conservator of Forests,
Villupuram Circle,
Villupuram -605 602.

To

The Principal Chief Conservator of
Forests
(Head of Department)
Chennai – 600 015.

C.No. D/ 3811 / 2015, dated 07.03.2016.

Sir,

Sub: Forests – Forest (Conservation) Act 1980 – Villupuram Forest Circle / Villupuram Forest Division – Proposal for diversion of 0.528 ha. of forest land in Gramam RF of Villupuram Forest Division for construction of Bridge at KM 0/4 of Kooranur road across Malattar River in favour of Divisional Engineer (Highways), NABARD & Rural Roads Division, Cuddalore – Online submission of proposal by the User Agency - Regarding.

- Ref: 1. Principal Chief Conservator of Forests (HOD), Chennai Ref.No. TS1/20703/2015, dated 09.02.2016.
2. District Forest Officer, Villupuram No. 4215/2015/D, dated 22.02.2016.

I submit to inform that necessary undertaking obtained from the Divisional Engineer (Highways), NABARD and Rural Roads, Cuddalore for the proposed construction of bridge at Km 0/4 of Kooranur road across Malattar river will not be disturbed / removed during the execution of bridge work through the District Forest Officer, Cuddalore duly countersigned by him is sent herewith.

2) Form A Part-II uploaded it is mentioned a live Sissoo tree with side branch main branch of trees has girth of 91 to 120 cm and the side branch of the tree has girth of 61 to 90 cm and hence it seems to be two tree. But actually one tree only.

3) The Compensatory Afforestation details has been prepared (Raising and Maintenance for 8 years) by District Forest Officer, Villupuram and submitted herewith in duplicate.

This is for kind information.

Encl: As above.

Yours faithfully,

Sd: *SEWASIAM*

Conservator of Forests,
Villupuram Circle.

/True Copy / By Order/

[Signature]
070316
Senior Draughting Officer.

3811
2015-15

TAMILNADU FOREST DEPARTMENT

From
Thiru S. Anand.I.F.S.,
District Forest Officer,
Viluppuram Forest Division,
Near Circuit house,
Master Plan Complex,
Viluppuram.

To
The Conservator of Forests,
Viluppuram Circle,
Viluppuram.



C.No.4215 / 2015 / D dated 02.02.2016.

B: Forest (Conservation) Act, 1980 – Viluppuram Forest Circle / Viluppuram Forest Division – Proposal for diversion of 0.528 ha of forest land in Gramam Reserve Forests of Viluppuram Forest Division for construction of bridge at Km 0/4 of Kooranur Road across Malattar river in favour of Divisional Engineer (Highways) , NABARD & Rural Roads Division , Cuddalore – Online Submission of proposal by the User Agency – Regarding.


REF: 1.Principal Chief Conservator of Forests, (Head of Forest Force) , Chennai-15, Ref. No. TS1 / 20703 /2015 dated 09.02.2016.

I submit that the Undertaking from Divisional Engineer (Highways) NABARD and Rural Roads , cuddalore for the proposed construction of bridge @ Km 0/4 of Kooranur road across malattar river will not disturbed / removed during the execution of bridge work certificate duly countersigned by me is enclosed

herewith. Compensatory afforestation details scheme provision for 9 years maintenance works estimate enclosed herewith. Form A Part II uploaded it is mentioned a live siisoo tree with side branch. Main branch of trees has girth of 91 to 120 cm and the side branch of the tree has girth of 61 to 90 cm. Hence, it seems to be two tree. But actually one tree only. But actually one tree only.

Encl.: As stated above

Yours faithfully


District Forest Officer,
Viluppuram Division,
Viluppuram.

Sw
22.2.16

SCHEME FOR COMPENSATORY AFFORESTATION

Detail scheme for compensatory afforestation to be carried out in lieu of diversion of 0.528 ha in Gramman Reserve Forest of Viluppuram Division.

1. Details of degraded forest land:

District : **Viluppuram**

Village : **Gramam reserve forest**

Tehsil: **Viluppuram**

Name of the Forest Division: **Viluppuram , Ulundurpet Range**

Block / Compartment / Survey No. **Gramam reserve forest**

Area to be afforested : **1 Ha.**

2. Description of the area:

- i. Whether the site selected for compensatory afforestation is a land bank or not :
Reserve Forest
- ii. If the CA site is other than the land bank, reasons be given:
Reforestation of Degraded Forest
- iii. In the case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: **NA**
- iv. Soil type : **Sandy and Saline**
- v. Topography:
 - a. **Plain river side**
 - b. **Slope – 2to 6%**
- vi. Whether the area is bearing any root stock of vegetation: **Sparse Bushy vegetation.**

3. Plantation model:

Copy of the approved compensatory afforestation scheme / model showing component wise physical and financial break up – Enclosed (uploaded)

4. Scheme of plantation programme:

Detail of year wise break up of requirement of funds is as under:

Year	Area	Rate / Ha	Total amount
0 th year	1 Ha	243224	243224
1 st year	1 Ha	127342	127342
2 nd year	1 Ha	117686	117686
3 rd year	1 Ha	129450	129450
4 th year	1 ha	142400	142400
5 th year	1 Ha	156600	156600
6 th year	1 ha	172300	172300
7 th year	1 ha	189500	189500
8 th year	1 Ha	208450	208450
9 th year	1 Ha	229300	229300
	Total	1716252	1716252

5. Technical Details:

Technical details of Compensatory Afforestation Scheme are as follows:

- General details: **The compensatory afforestation Scheme is proposed against diversion of project proposed area.**
- Spacement : **3 x 3m**
- Species: **Syzgium cumini, Pongamia pinnata, Pithecelobium dulce, Terminalia arjuna, Azadiracta indica, Dabergia sissoo**
- Plantation Method: **Pit method**
- Soil and Moisture Conservation works: **Mulching to be done**
- Protection : **Complete Fencing**
- Proposed monitoring mechanism : **Internal**
- any other information: **Area chosen for afforestation is adjoining to the proposed area for diversion and is believed to be suitable for afforestation activities based on the past experience.**


District Forest Officer,
Viluppuram Forest Division,
Viluppuram.


22.2.16

**PROPOSAL FOR COMPENSATORY AFFORESTATION IN VILLUPURAM DIVISION FOR THE
YEAR 2015-16**

Cost of Project: Rs. 17.16 Lakhs

Sl. No	Item of work	Unit	Per	Unit cost	Weightage due to escalation of Labour Wage rate	Proposed Unit cost	Total Units	Total Cost	Remarks
1	River bed planting								
1	Afforestation of barren river bed area of Malattar river	Ha.,	1	221113	22111	243224	1 Ha	243224	10%
2	Ist year Maintenance of river bed planting in Malattar river	Ha.,	1	106118	21224	127342	1 Ha	127342	20%
3	IInd year Maintenance of river bed planting in Malattar river	Ha.,	1	98072	19614	117686	1 Ha	117686	20%
3	IIIrd year Maintenance of river bed planting in Malattar river	Ha.,	1	117682	11768	129450	1 Ha	129450	10%
3	IVth year Maintenance of river bed planting in Malattar river	Ha.,	1	129455	12945	142400	1 Ha	142400	10%
3	Vth year Maintenance of river bed planting in Malattar river	Ha.,	1	142363	14237	156600	1 Ha	156600	10%
3	VIth year Maintenance of river bed planting in Malattar river	Ha.,	1	156636	15664	172300	1 Ha	172300	10%

Sl. No	Item of work	Unit	Per	Unit cost	Weightage due to escalation of Labour Wage rate	Proposed Unit cost	Total Units	Total Cost	Remarks
1	River bed planting								
3	VIIIth year Maintenance of river bed planting in Malattar river	Ha.,	1	172273	17227	189500	1 Ha	189500	10%
3	VIIIth year Maintenance of river bed planting in Malattar river	Ha.,	1	189500	18950	208450	1 Ha	208450	10%
3	XIth year Maintenance of river bed planting in Malattar river	Ha.,	1	208454.50	20845.45	229300	1 Ha	229300	10%
							Total	1716252	

AS

District Forest Officer,
Viluppuram Forest Division,
Viluppuram.

28-8-2023

MODEL ESTIMATE FOR RAISING NURSERY FOR COMPENSATORY AFFORESTATION OVER 10 HA. IN VILLUPURAM DIVISION DURING 2016-17 (Gramam RF Located in Malattar River)

1	Area of Plantation	10	Ha.,
2	Seedlings required for 1 Ha.,	1100	Nos
3	Total Seedlings required for 10 Ha.,	11000	Nos
4	Seedling required for Casualty	1100	Nos

Total Seedlings 12100
Size of the Bag 30x45x400G

Labour Wage Rate for 2015-16 Rs. 287.75

Nursery Period Feb to August

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
PART I - NURSERY								
2016-17 (10x20 cm size of Bags								
1	12100	Nos.	Cost of Polythene Bags 10x20x200 size	Industry rate		567	1000	6861
2	12100	Nos.	Cost of Polythene Bags 30x45x400 size	Industry rate		6220	1000	75262
3	12.1	Kg	Cost of Seeds (1 Kg/ 1000 Nos)	L.R.		50	1	605
4	242	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10X-20 cm bags	4.1	2.42	696.36	200	843
5	2.42	Nos.	Formation of germination bed of size 10mx10mx0.30m@ one bed/5000 Nos.	M.E. 2004-05		100	1	242
6	2.42	Nos.	Watering the germination beds twice daily with rose can(15 days)	4.5.1	0.82	235.96	10	857
	15	Days					1	0
7	2.42	Nos.	Watering the germination beds once daily with rose can(15 days)	4.5.1	0.41	117.98	10	428
	15	Days					1	0
8	5.324	M ³	Collection and supply of good quality earth for filling in (10X 20cm) polythene bags (0.44M ³ /1000)	L.R.		500	1	2662
9	1.331	M ³	Collection and supply of Farmyard manure (0.11 M ³ /1000)	L.R.		500	1	666
10	1.779	M ³	Collection and supply of sand 0.147 M ³ /1000)	L.R.		500	1	890

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
11	12100	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	1015.76	1000	12291
12	12100	Nos.	Watering container plants twice daily (10 Days) 10x20 bags	4.10.3	0.20	57.55	1000	6964
	10	Days					1	
13	12100	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	28.78	1000	10447
	30	Days					1	
14	12100	Nos.	Watering container plants once in alternate days with rose can for 60 days (30 Days) 10x20 bags	4.11.3	0.10	28.78	1000	10447
	30	Days					1	
15	12100	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	94.96	1000	2298
	2	Times					1	
16	12100		Cost of Water (10x20)			0.60	1000	578
	70	Days					1	
			30x45 cm size of bags					
17	806.67	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 300 Nos.) for 30X 45 cm bags	4.1	2.42	696.36	200	2809
18	39.131	M ³	Collection and supply of good quality earth for filling in (30X45 cm) polythene bags (0.44M ³ /1000)	L.R.		500	1	19566
19	39.131	M ³	Collection and supply of Farmyard manure (0.11 M ³ /1000)(30X 45cm)	L.R.		500	1	19566
20	39.131	M ³	Collection and supply of sand 0.147 M ³ /1000) (30 X 45cm)	L.R.		500	1	19566
21	12100	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) (30X 45cm bags)	4.6.7	28.57	8221.02	1000	99474
			Cost of Bio-fertilizers					
22	48.4	Kg	Cost of Azospirillum @ 4 gm/plant	Research rate		27	1	1307
23	48.4	Kg	Cost of Phospobacteria @ 4 gm/plant			27	1	1307

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
24	72.6	Kg	Cost of VAM @ 6 gm/plant			18	1	1307
25	96.8	Kg	Cost of Vermicasting @ 8 gm/plant			10	1	968
26	12100	Mz	Labour cost for transplanting		1	287.75	100	34818
27	12100	Nos.	Watering container plants twice daily (10 Days) 30x45x400 bags	4.10.7	0.56	161.14	1000	19498
	10	Days					1	
28	12100	Nos.	Watering container plants once daily (30 Days) 30x45x400 bags	4.10.7	0.28	80.57	1000	29247
	30	Days					1	
29	12100		Cost of Water (30x40)			3.60	1000	1742
	40	Days					1	
30	12100	Nos.	Shifting the container (30x45)	4.15.7	2.69	774.05	1000	37464
	4	Times					1	
31	1.21	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 Mazdoor /10000 Seedlings.	F.S.R 2015-16	Rate arrived for 1000 seedlings	287.75	1	52227
	150	Days					1	
32		L.S	Contingencies and unforeseen Charges			L.S.		1743
			Sub Total					474880
			Total cost of Nursery					474880
			Prorata per Ha.,					47488.00

RATE PER Ha.,
Add 10% escalation for 2016-17
PRORATA PER HA.,

Rs. 47488.00
Rs. 4748.80
Rs. 52237.00

AG 22/2/16
District Forest Officer,
Viluppuram Forest Division,
Viluppuram.

DA
22-2-16

**MODEL ESTIMATE FOR PLANTING FOR COMPENSATORY AFFORESTATION OVER 10 HA., IN
VILLUPURAM DIVISION DURING 2016-17 (Gramam RF Located in Malattar River)**

1	Area of Plantation	10	Ha.,
2	Seedlings required for 1 Ha.,	1100	Nos
3	Total Seedlings required for 10 Ha.,	11000	Nos
4	Seedling required for Casualty	1100	Nos
	Total Seedlings	12100	Nos
	Size of the Bag	30x45x400G	

Labour Wage Rate for 2015-16 Rs. 287.75

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
PART II - PLANTING								
1	12100	Nos.	Transporting saplings (transported upto 40 Kms)	As per PCCF ME		5.00	1	60500
2	12100	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	946.70	1000	11455
3	12100	Nos.	Distribution of saplings upto 100 mts.	5.15.1	10	2877.50	1000	34818
4	11000	Nos.	Digging 60 cm ³ pits in river bed - sandy soil	5.8.1	9.26	2664.57	100	293103
5	11000	Nos.	Planting the container plants by refilling pits of 60 cm ³ in plains	5.2	1.71	492.05	100	54126
6	594	M ³	Cost and transport of FYM @ 0.054 m ³ for 60cm ³ pits (1/4 volume)	L.R.		500.00	1	297000
7	11000	Nos.	Scrap weeding for 1m dia and soil working 15mm depth around each plant and removing the grass roots away from the site or upturning the soil. Both in plains and hills.	5.24	1.23	353.93	100	38932
8	11000	Nos.	Mulching the planted seedlings at 100 gms coconut husk per pit	Lump Sum		2.00	1	22000
8	4000	Nos.	Watering planted saplings from January to March for 3 months	As per PCCF ME	10000 Nos./3 months	9.00	each/3 months	36000
10	4000	Nos.	Cost for water 20 litres per seedling	As per PCCF ME	10000 Nos./15 watering days	3.75/20 litres	each/waterin g day	225000
11	1100	Nos.	Replacement of casualties			1824.335	100	20068
12		L.S.	Contingencies for unforeseen expenditure	Lump Sum				3455
			Sub Total					1096457
			Cost per Ha.,					109646.00
PART III - PROTECTION								
13	11000	Nos.	Fencing with locally available materials	5.36.1 Chennai circle		15.00	1	165000
14	11	No	Engaging protection mazdoor @1 Mazdoor / 1000 Plants from October to March @ 25 days / month.	As per FSR mandays		287.75	1	474788
	150	Days						
			Sub Total					639788
			Cost per Ha.,					63978.80
			Total cost per Ha.					173624.80

ADD 10% escalation for 2016-17

17362.48
190987.28

PART I FOR NURSERY
PART II FOR PLANTING
PART III - PROTECTION
PRORATA FOR HA.,

Rs. 52237

Rs. 190987

Rs. 243224

District Forest Officer,
Viluppuram Forest Division,
Viluppuram.

Handwritten signature and date
22-2-16

**MODEL ESTIMATE FOR 1st Year Maintenance FOR COMPENSATORY AFFORESTATION OVER 10 HA., IN
VILUPPURAM DIVISION DURING 2017-18**

1	Area of Plantation	10	Ha.,
2	Seedlings Planted in 1 Ha.,	1100	Nos
3	Total Seedlings Planted in 10 Ha.,	11000	Nos
4	Seedling required for Casualty	1100	Nos
	Total Seedlings	12100	Nos

Component

Size of the Bag 30x45x400G

Labour Wage Rate for 2015-16

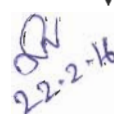
Rs. 287.75

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
2015-16								
1	1100	Nos.	Cost of Taller Plants	As per Model Estimate		39.00	1	42900
2	1100	Nos.	Transporting saplings (transported upto 40 Kms)	As per PCCF ME		5.00	1	5500
3	1100	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	946.70	1000	1041
4	1100	Nos.	Distribution of saplings upto 100 mts.	5.15.1	10	2877.50	1000	3165
5	11000	Nos.	Scrap weeding for 1m dia and soil working 15mm depth around each plant and removing the grass roots away from the site or upturning the soil. Both in plains and hills.	5.24	1.23	353.93	100	38932
6	1100	Nos.	Replacement of casualties			1824.34	100	20068
7	11	No	Engaging protection mazdoor @1 Mazdoor / 10000 Plants from October to March @ 25 days / month.	As per FSR mandays		287.75	1	949575
	300	Days						
8		L.S	Contingencies and unforeseen Charges		L.S			
			Sub Total					1061181
			Prorata per Ha.,					106118.00

RATE PER Ha.,
Add 20% escalation
PROTATA PER HA.,

Rs. 106118.00
Rs. 21223.60
Rs. 127342.00


 District Forest Officer,
 Viluppuram Forest Division,
 Viluppuram.


 22-2-16

**MODEL ESTIMATE FOR IInd Year Maintenance FOR COMPENSATORY AFFORESTATION OVER 10 HA.,
IN VILUPPURAM DIVISION DURING 2016-17**


1	Area of Plantation	10	Ha.,
2	Seedlings Planted in 1 Ha.,	1100	Nos
3	Total Seedlings Planted in 10 Ha.,	11000	Nos

Labour Wage Rate for 2015-16 Rs. 287.75

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
	8800	Nos.	Scrap weeding for 1m dia and soil working 15mm depth around each plant and removing the grass roots away from the site or upturning the soil. Both in plains and hills	5.24	1.23	353.93	100	31146
10	11	No	Engaging protection mazdoor @1 Mazdoor / 1000 Plants for 300 days in a year	As per FSR mandays		287.75	1	949575
	300	Days						
			Sub Total					980721
			Cost per Ha.,					98072.00

RATE PER HA.,	Rs.	98072.00
Add 20% escalation	Rs.	19614.40
PROTATA PER HA.,	Rs.	117686.00

For IIIrd year maintenance (ADD 10 %)	Rs.	129450
For IVth year maintenance (ADD 10 %)	Rs.	142400
For Vth year maintenance (ADD 10 %)	Rs.	156600
For VIth year maintenance (ADD 10 %)	Rs.	172300
For VIIth year maintenance (ADD 10 %)	Rs.	189500
For VIIIth year maintenance (ADD 10 %)	Rs.	208450
For IX th year maintenance (ADD 10 %)	Rs.	229300


 District Forest Officer,
 Viluppuram Forest Division,
 Viluppuram.



 22-2-16

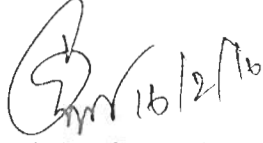
Office of the Divisional Engineer,
Highways, NABARD & Rural Roads Division,
Cuddalore.

RefNo. JDO-2 / 861 / 2015 , Dt : 30.10.2015.

CERTIFICATE / UNDERTAKING

This is Certified that the existing trees in the proposal Area of Land Transfer to Highways Department for the Proposed Construction of bridge at Km 0/4 of Kooranur road across malattar river will not be Disturbed / Removed during the execution of bridge work.


District Forest Officer,
Viluppuram Division
Viluppuram.


Divisional Engineer (H)
NABARD and Rural Roads,
Cuddalore

Date : 16.02.2016

Place : Cuddalore