#### Government of Andhra Pradesh Forest Department

Rc.No. 684/2021-D1, Dated: 26.06.2023.

From Sri.M.V.Prasada Rao, S.F.S., District Forest Officer (FAC), Kakinada Division, Kakinada Office of the District Forest Officer, Kakinada Division, Kakinada.

То

The Chief Conservator of Forests, Rajahmundry Circle, Rajamahendravaram.

Sir,

- Sub: APFD F(C) Act, 1980 Diversion of 9.60 ha. of Forest land in Compt.no.154,156 of E.D.Pally and compt. no.110, 111 of Pegha RF in Chintur Division for formation road from Yedugurallapalli to Mallampeta in favour of E.E. PR (PIU) Division, Kakinada -Identification of degraded forest land - Report submission - Reg.
- Ref: 1.GoI, MoEF & CC, IRO, Vijayawada F.no.4-APB173/2022-VIJ/1006; Dt:21-06-2023.
  - 2.Prl.CCF & HoFF, AP, Mangalagiri Rc.no. EFS02-15034/83/2018-FCA SEC- PCCF/FCA-3, Dt:22.06.2023.
  - 3.DFO, Chintur Rc.no.1492/2020/C4; Dt:23-06-2023.

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In compliance to the instructions issued in the reference 1<sup>st</sup> and 2<sup>nd</sup> cited, I am herewith submitting the Compensatory Afforestation Scheme Proposals for the Afforestation in 9.77 ha of degraded forest land inlieu of diversion of 9.60 ha. of Forest land in Compt.no.154,156 of E.D.Pally and compt. no.110, 111 of Pegha RF in Chintur Division for formation road from **Yedugurallapalli to Mallampeta** in favour of Executive Engineer, Panchayatraj (PIU) Division, Kakinada with a financial outlay of Rs.51.00 lakh.

This is submitted for favour of kind information

Encl: As Above.

Yours faithfully

District Forest Officer (FAC), Kakinada Division, Kakinada.

Copy to the Divisional Forest Officer, Chintur Division, Chintur for information and necessary action.

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										Division.	ge of Kakinada	leswaram Rang	tharam RF, Ye	o.626 of Anan	ons in Compt.N	L) Operati	Degraded Forest Land (DFL) Operations in Compt.No.626 of Anantharam RF, Yeleswaram Range of Kakinada Division.	۲
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16.062023 District Forest Officer Kakinada Division, Kakinada

## SITE INSPECTION REPORT OF COMPENSATORY AFFORESTATION AREA (NON FOREST C.A LAND) OVER AN EXTENT OF 9.77 HA. IN KAKINADA RANGE OF KAKINADA (TERRITORIAL) DIVISION. Dt:23-06-2023

As per the directions issued in hand book of Forest Conservation Act, 1980 guidelines communicated vide GoI, MoEF, New Delhi F.No.5-2/2017-FC, Dt.28-03-2019, and as per the special provisions of the said guidelines, Compensatory Afforestation shall be raised and maintained at the cost of user agency on Compensatory afforestation land in extent the forest land diverted in case of the projects implemented by the Central Government/PSUs and State Sector Projects implemented by the Central Government/PSUs.

As per these guidelines, it is mandatory to raise Compensatory Afforestation over equal extent of forest area diverted in lieu of diversion of 9.60 ha. of forest land in Compt.no.154,156 of E.D. Pally and compt no.110, 111 of Pegha RF in Chintur Division for formation road from Yedugurallapalli to Mallampeta in favour of E.E. PR (PIU) Division, Kakinada.

**CA AREA PROPOSED FOR TREATMENT:** The following forest area is identified for raising Compensatory afforestation, over an extent of 9.77 ha. in Kakinada division of Kakinada district as follows:

SI <i>.</i> No.	Name of the Range	Name of the area	Total extent of area	Sy.no
1	Kakinada	Thurangi village of kakinada rural mandal of Kakinada Range, Kakinada division	9.77 ha.	Thurangi village

The CA Area was inspected by me on 23-06-2023 along with the Forest Range Officer, Kakinada and concerned staff and the proposed CA area was covered with full Mangrove vegetation and it is not possible to raise any plantation in this area @1000 plants per ha as per the condition no.2.4 (vi) of Hand Book of Guidelines & Clarifications issued under Forest (Conservation) Act, 1980.

"Condition no.2.4 (vi): State government shall prepare a CA scheme with 1000 plants per ha for all such non-forest lands. In case it is not possible to raise plantation at the rate of 1000 plants per ha on the selected non-forest land, then the balance plants shall be planted on degraded forest land as per working plan prescriptions. All forest lands which have crown density below 40 percent should only be treated as degraded forest land for the purpose of CA". This CA area was adjoining to the another CA area identified for the Vetukuru to Siripuram road and the IRO, Vijayawada has inspected these CA areas and issued instructions vide condition no iv of In-principle (stage-I approval) for identification of the degraded forest land to accommodate required number of the plants in the CA area i.e., 1000 plants / ha.

In view of the above, it is required to identify the degraded forest land for Compensatory Afforestation to plant @1000 plants/ha for 9.77 ha.

District Forest Officer, Kakinada Division, Kakinada. (me 26.06.2021

## SITE INSPECTION REPORT OF DEGRADED FOREST LAND (DFL AREA) OVER AN EXTENT OF 9.77 HA. IN YELESWARAM RANGE OF KAKINADA DIVISION. Dt: 24-06-2023

The Non Forest CA land was identified over an extent of 9.77 ha in Thurangi village of kakinada rural mandal of Kakinada Range, Kakinada division in lieu of diversion of forest land for formation road from Yedugurallapalli to Mallampeta in favour of E.E. PR (PIU) Division, Kakinada. But, the proposed CA area was covered with full Mangrove vegetation and it is not possible to raise any plantation in this area @1000 plants/ha as per the condition no.2.4 (vi) of Hand Book of Guidelines & Clarifications issued under Forest (Conservation) Act, 1980. Hence, it is proposed to identify the degraded forest land for Compensatory Afforestation to plant @1000 plants/ha for 9.77 ha.

**DEGRADED FOREST LAND PROPOSED FOR TREATMENT:** As per the condition no.2.4 (vi) of Hand Book of Guidelines & Clarifications issued under Forest (Conservation) Act, 1980 the following Degraded Forest Land was identified for raising Compensatory afforestation, over an extent of 9.77 ha in Yeleswaram range of Kakinada division, Kakinada:

SI.	Name of	Details of degraded fores	and	Total extent of
No.	the Range			area
1		Anantharam RF, Compt.no. Anantharam Beat, Rowthula Section, Yeleswaram Range, Kakinada division	pudi	9.77 ha.

The Degraded forest land was inspected by me on 24-06-2023 along with the Forest Range Officer, Yeleswaram and concerned staff. The forest type is medium scrub jungle and density in the proposed land was below 0.4. The following species are existing in this area.

S.No	Name of the Species	Common name
1	Soymida febrifuga	Somitha
2	Madhuca indica	Ірра
3	Chloroxylon swietenia	Billudu
4	Emblica officinalis	Usiri
5	Dendrocalamus strictus	Bamboo
6	Wrightia tinctoria	Ankudu
7	Cassia fistula	Rela

8	Lannea coromandelica	Gumpena Kodisa
9	Cleistanthus collinus	Sandra
10	Acacia sundra	Sanara

The following works are to be proposed in the degraded forest land:

- 1. ANR planting is proposed for entire area i.e.,9.77 ha with 1000 plants per ha with suitable species like Soymida febrifuga, Madhuca indica, Emblica officinalis and Dendrocalamus strictus etc.,
- 2. Raising of Nursery including maintenance.
- 3. SMC Works proposed in DFL area such as Cattle proof trench, MPTs, Semilunar trenchs, RFDs etc.,

26.96.2023

- 4. Watch and ward for plantation.
- 5. Over heads.

District Forest

Kakinada Division, Kakinada.

NAME OF THE WORK: The Scheme Proposals for the Afforestation in 9.77 ha of degraded forest land inlieu of Diversion of 9.60 ha. of Forest land in Compt.no.154,156 of E.D. Pally and compt no.110, 111 of Pegha RF in Chintur Division for formation road from Yedugurallapalli to Mallampeta in favour of E.E. PR (PIU) Division, Kakinada

				Unit: 1	ha Espac	e <b>men</b>	t: 1000plant
		Name of	the compon	ent			Amount Rs.
Sl.no.		Advance On	erations -2	023-24			
1	a) Advance Or	pearations 202	3-24			-	5500
	b) Paising of	Nurseries 2023	-24				
	(Including Ca	sualities 1000	*20% = 200.	1000+200 =	-		40164
	1200*33.47 =		,			-	
	1200 33.47	10101)			Total	-	45664
		1					or
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2		Raising of P ling Maintena tation and Ma		eries, Raisiı			Amount Rs.
		ce of Nursery 2 200, 1000+20			ities	-	5784
	b) Raising of p	plantation 2024	4-25			-	83800
		nursey for 1st y ities = 1000*2 = Rs.36.82)				-	9205
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		1					98789
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3		ar Maintenan			-26		or
3	a) Maintenand	<b>ar Maintenan</b> e of Nursery fo % Casualities =	or 1st year Mto	c.of plantatic	-26		or 98800
3	a) Maintenanc 2025-26 (25 0 1325)	e of Nursery fo	or 1st year Mto = 1000*25% =	c.of plantatic = 250, 250*!	-26		or 98800 Amount Rs.
3	a) Maintenanc 2025-26 (25 0 1325)	e of Nursery fo % Casualities =	or 1st year Mto = 1000*25% =	c.of plantatic = 250, 250*!	-26	-	or 98800 Amount Rs. 1325
3	a) Maintenanc 2025-26 (25 0 1325)	e of Nursery fo % Casualities =	or 1st year Mto = 1000*25% =	c.of plantatic = 250, 250*!	-26 on 5.30 =	-	or 98800 Amount Rs. 1325 29500

0 26 District Forest Officer Kakinada Division, Kakinada

26.06.2023

					Unit: 1 Bec	1	
SI. No.	Quan- tity	Description of the Work	FSR 2022-23	Unit	Rate	Per	Amount
1	1	Preparation of site by clearing growth of unwanted species, uprootal of stumps and removal of surface stones etc New site	1.1.1	Beds	70.50	1	70.50
2	1	Digging soil to a depth of 30 cm. $(10x1x0.30 = 3.0 \text{ cum per bed})$ (3.64 mandays @ Rs.525/- Per manday = 525*3.64/10*3 =502.32) (As per CSSR 2020-21 labour rates item III.3-LAB-00120)	1.1.3	Beds	573.30	1	573.30
3	1.250	Cost of sandy soil (50% of dugup quantity) taken from private lands and transportation over 5 km. lead including loading and unloading charges by manual means (Sandy soil and FYM. in 5:1 proportion) 0.125 cum per bed (of sixe 1mx1mx0.30m)	1.1.4	Cum	587.70	1	734.63
4	0.250	Cost and transport of farm yard manure (Sandy soil and FYM. in 5:1 proportion) @ 0.025 cum per bed (Proportionate rate and quantity for 10Mx1Mx0.30M)	1.1.5	Cum	600	l	150.00
5	1	Preparation of soil mixture of red earth, sand and farm yard manure in 5:1 proportion and formation of bed by refilling the excavated portion of the bed with soil mixture (Proportionate rate for 10Mx1Mx0.30M)	1.1.6	Beds	147.90	1	147.90
8	5	Cost of seed (Average rate of 5 species)		Kgs	211.63	1	1,058.15
9	1	Seed treatment for other species	1.8.2	Beds	67.76	1	67.70
10	1	Sowing of seed and covering the seed with hay including cost and conveyance to a thickness of 2.5 cm.	1.9.1	Beds	16.78	1	16.73
11	1	Cost of hay & conveyance to nursery site.	1.9.3	Beds	25.28	1	25.2
12	I	Watering the primary nursery beds -with rose water cans for a maximum two months (proportionate rate) manually	1.10.7	Beds	187.80	1	375.60
13	8	Weeding the primary beds for a maximum period of 2 times	1.10.8	Beds	27.80	1	444.80
14	1	Cost of Pesticides / Fertilizers	1.10.48	Beds	100.00		100.00
15	1	Application of fertilisers.	1.10.49	Beds	4.92	1	4.9
16	1	Cost of Protection: 1 Watch & Ward (8 Months August to March) (Rate as per RSSR for 26 days @ Rs.245/- per day) upto 100 beds and for above 100 beds 2 watch and ward.	Rs.245/- per day	Months	560.56	1	560.50
17	L.S	Contingencies and unforeseen items like Cost of Pipes/ Nursery Board / Nursery implements/ Electricity Bill/ Running & Maintenance Charges of Oil Engine etc.,	LS		≤10%		432.29
		Total					4,762.4

Data for raising of Primary beds for raising 5"x9" size bag nursery 2022-23 Unit: 1 Bed

Rate for 2022-23 for raising of 1 Bed size 10x1x0.30 NTSHW seedlings = Rs 4762 Rate for 2022-23 per each seedling = 4762/1100= Rs.4.33 Rate for 2023-24 = 4.33\*10% = Rs.4.76

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06/2 District Forest Officer

Kakinada Division, Kakinada

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Data for raising	of 5" X 9"	<b>Bag nursery</b>	2022-23
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						Unit:	1000 Nos.
SI. No.	Quan- tity	Description of the Work	FSR 2022-23	Unit	Rate	Per	Amount
1	3.31	Cost of Polythene bags @ 170.50/- per kg (5x9- 200/3300 =2.732*1100/ 1000*10% extra towards wastage= 3.3057 Kg =366 bags per kg) including VAT	As per tender rate	Kgs	170.50	1	563.62
2	1000	Site Preparation-New site-Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.,	1.7.1	No.	42.28	1000	42.28
3	1100	Cost and transport of ingredients for potting mixture Red earth, Sand, Tank silt/ Clay & FYM/Vermi compost in 2:1:1:1 Ratio. 12.5cm X 22.5 cm (5"x9")- 1.12 cum (Data as per CSSR)	1.7.4	No.	1148.14	1000	1262.95
4	1100	Preparation of potting mixture Red earth, Sand, Tank silt /Clay and FYM /Vermi Compost in 2:1:1:1 ratio 12.5cmX22.5cm (5"X9") 1.12 cum	1.7.9	No.	948.77	1000	1043.65
5	1100	Pricking out seedlings from primary beds and transplanting in bags	1.9.7	No.	191.29	1000	210.42
6	250	Replacement of Casualties upto a maximum of 25%	1.9.7	No.	191.29	1000	47.82
7	1000	Watering the bag nursery from November to March. Twice a day for 5 months	1.10.12	No.	207.97	1000	623.9
8	1000	Weeding only two times for 10mX 1m X size bed 12.5cmX22.5cm (5"X9") bags (1700nos/ bed)	1.10.16	No.	40.12	1000	160.4
9	1000	Shifting, grading and rearranging bags in beds	1.11.2	No.	168.48	1000	168.4
11	1	Providing Plantation/ Nursery board, Painting and fixing (Unit taken with a minimum of 5000 bag nursery)	5.4.25	No.	1894.74	1	378.94
12	1000	Cost of chemicals	1.10.56	No.	Actuals	1000	0 10
13	1000	Cost of cow dung slurry	1.10.58	No.	Actuals	1000	
14	1000	Application cow dung slurry	1.10.59	No.	283.06		
12	LS	Contingencies and other unforeseen items not exceeding 10% of estimated cost					498.0
13	1200	Added for Primary Bed cost	As per data	No.	4.33	1	5196.0
		TOTAL raising of 1000 nos 5"x9" seedlings =Rs.10680/ There					10680.2

Rate for 2022-23 for raising of 1000 nos 5"x9" seedlings =Rs.10680/-. Therefore the rate per each seedling =10680/1000= Rate for 2023-24 per each seedling = 10.68\*10% = Rs.11.75

District Forest Officer

Kakinada Division, Kakinada

luce 26.06.2023

			U	-		Unit:	1000 Nos.
SI. No	Quan tity	Description of the Work	FSR 2022-23	Unit	Rate	Per	Total Amount
1	1,000	Watering the plants for 10 m X 1 m size bed 12.5 X 22.50 cm (5"X 9") bags, for 4 months i.e. April to July	1.10.20	1000 Nos / Month	207.97	1000	832.00
2	1,000	Weeding four times for 10 m X 1 m size bed 12.5 X 22.50 cm (5"X 9") bags, for 4 months i.e. April to July	1.10.24	1000 Nos / Weeding	40.12	1000	160.00
3	1,000	Shifting and grading and re-arranging in beds for 10 m X 1 m size bed 12.5 X 22.50 cm (5"X 9") bags, two shifts in maintenance year for 4 months i.e. April to July.	1116	1000 Nos / Shifting	168.48	1000	337.00
4	1,000	Cost and conveyance of Cow dung slurry	As per market rate 1.10.58	No.	600	1000	600.00
5	1,000	Application of cow dung slurry at the rate of 100ml to 250 ml / Chemical fertilizers / Vermicompost per plant monthly twice ( <b>Two times</b> in maintenance year)	1.10.59	1000 Nos / 1 time	283.06	1000	566.00
6	LS	Contingencies and unforeseen items such as cost of Diesel Oils and current Charges etc.,	Special Conditio ns 43 (a)	≤5%	-	-	125.15
		TOTAL					2,620.1

## Data for Maintanance of 1,000 Nos 5"x9" Bag nursery 2022-23

TOTAL

Rate for 2022-23 per each seedling = 2620/1000 = Rs.2.62 Rate for 2023-24 per each seedling = 2.62\*10% = Rs.2.88

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District Forest Of Kakinada Division, Kakinada

26.06.2023

					U	nit 1000 Ba	gs.
SI. No.	Qty.	Details of work		FSR 2022-23	Rate	Per	Amount
1		Site preparation for old site - Clearing of growth, weeds, grass etc.,		1.7.2	22.48	800/bed	28.10
2	1000/ 11.63 Kg.	Cost of polythene bags		As per tender rate	170.50	Kg.	1982.93
3	1000	Cost of Plant - 5x9 (Raising + Mtc = 11.75+2.88= 14.63 or 15.00)			15.00	1	15000.00
4	1000	Cost and transport of ingredients for Potting mixture Red earth sand, Tank silt/Clay, FYM/Vermicompost in 2:1:1:1 ratio for 8"x (3915.98-1148.14=2767.84)		1.7.6	2767.84	1000	2767.8
5	1000	Preparation of potting mixture Red earth,, sand, Tank silt/Clay, FYM/Vermicompost in 2:1:1:1 ratio by powdering of various ingradients, sieving and mixing them in the prescribed proporti Opening the bags and filling with potting mixture and gently pressing the same with finer tips and arranging in beds for 8"x1 (2928.48-847.12=2081.36)	ion,	1.7.12	2081.36	1000	2081.3
6	1000	Transplanting in the bags.		1.9.9	295.50	100	2955.0
7	1000	Watering the bag plants for 4 months		1.10.14	394.60	1000	1578.4
8	1000	Weeding only four times		1.10.18	76.10	1000	304.4
9	1000	Shifting & grading for 1 shift		1.11.4	319.69	1000	319.6
10	1000	Cost of Chemicals		1.10.56	Actuals	1000	200.0
11	1000	Cost of cow dung slurry		1.10.58	Actuals	1000	200.0
12	1000	Application of cow dung slurry @ 100 ml to 250 ml per pl one time (watering should not be done 12 hours before a after application of cow dung slurry	ant and	1.10.59	252.74	1000	252.7
13	1000/1.25 beds	Contingencies (10%)			LS		2767.8
		Rate as per FSR 2022-23	6				30438.2

UNIT COST RAISING OF BAG PLANTS NURSERY 8"x12" X 400 GUAGE 2022-23

2022-23 Rate per plant = 30438/1000 = Rs.30.43

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2023-24 Rate per plant = 30.43\*10%= Rs.33.47 2024-25 Rate per plant = 33.47\*10% = Rs.36.82

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Kakinada Division, Kakinada

DATA

Maintanance of Tall Plants Nursery in Polypots Size 8"X12" with 400 Guage for 2022-23.

Unit : 1000 Nos / Per Bed

SI. No.	Quantity	Description of the Work	FSR 2022-23	Rate for 2022-23	Per	Amount for 2022- 23
1	1,000	Watering the bag plants for 4 months	1.10.22	441.95	1000/ month	1768
2	1,000	Weeding only four times in 10m x 10 size bed 8"x12" bags	1.10.26	85.23	1000/ weeding	341
3	1,000	Shifting & grading for 2 shifts	1.11.8	358.05	1000/ shift	716
4	1,000	Cost of cow dung slurry	1.10.58	Actuals	1000	200
5	1,000	Application of cow dung slurry @ 100 ml to 250 ml per plant two times in maintenancew year (Watering should not be done 12 hours before and after application of cow dung slurry (2 times)	1.10.59	283.06	1000/ time	566
6	1,000	Cost of Chemicals	1.10.56	Actuala	1000	
7		Contingencies (5%)	1.10.56	Actuals LS	1000	200
		Rate as per FSR 2022-23 ate per plant = 3984/1000 = Rc 2 08		L3		<u>193</u> 3984

2022-23 Rate per plant = 3984/1000 = Rs.3.98

2023-24 Rate per plant = 3.98\*10% = Rs.4.38

2024-25 Rate per plant =4.38\*10% = Rs.4.82 2025-26 rate per plant = 4.82\*10% = Rs.5.30

District Porest Officer Kakinada Division, Kakinada Lue 26.06.2023

## DATA FOR ADVANCE OPERATIONS OF NTHW PLANTATION 1000PLANTS / HA (Unit-1ha)

Unit 1 ha Espacement 1000 nos / ha

						Espacemen	11000 nos	/ha	
SI. No	Description of work	FSR 2022-23 (10% hike)	Qty.	Rate (Rs.)	Add 25 % AA	Total	Per	Amount (Rs.)	calender of operation
1	2	3	4	5	6	7	8	9	10
1	Survey with GPS (Only staff to carry out GPS survey, one manday is allowed for assistance)	5.1.1	1	269.5		269.50	1	270	Dec/Jan
	Specification:- Survey & demarcation of pla	ntation site	s by cutting	g boundary	line to a wid	dth of 2m - N	ew area		
2	Preparation of site for planting by clearing thorny unsaleable, unusable jungle growth, creepers, bushes etc., spreading the cut material allover the site and burning the sameSparse Jungle gowth (< 10% ground area covered with Jungle growth	2.1.1	1	2963.09		2963.09	ha	2963	Dec/Jan
	Specification:- Preparation of site for plantin	ng by clear	ing thorny i	unsaleable,	unusable ju	ingle growth,	creepers,	bushes etc.,	
3	Dragging unburnt material and keepting outside the plantation site	2.1.21	1	2087.32		2087.32	ha	2087	Dec/Jan
4	Contingencies							189	
								5509	

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District Forest Officer

Kakinada Division, Kakinada

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## DATA FOR RAISING OF NTHW PLANTATION 1000PLANTS / HA Unit 1 ha

Description of work	FSR 2022-23 (10% hike)	Qty.	Rate (Rs.)	Add 25 %	Total	Per	Amount (Rs.)	calender of operations
2	3	4	5	6		8	9	10
for plants	2.1.16	1000	275.418		275,42	100	2754	April
transportation to site. (RSSR SI.No.19 Cat- 1 (c ))	2.2.1	1000	67.287		67.287	100	673	April
•	2.2.3	1000	126.19		126.19	100	1262	Мау
Formation and maint. of inspection paths & sector lines in planting year	5.4.2	200	10.54		10.54	1	2108	May
Digging of 45 cm. cube pits (0.45x0.45x0.45=0.091*228.99=20.866) RSSR 6 (e)	2.3.9	1000	20.87		20.87	1	20866	June / July
from nursery site to plantation site including loading and unloading upto 5 km lead (approved in Prl CCF (HoFF), A.P., Hyderabad Rc. No 9443/2012/CAMPA, dt. 26.06.2012) 20 x 30 cm	2.4.4	1200	421.96		421.96	100	5064	June / July
from nursery site to plantation site including loading and unloading beyond 5 KM extra for every KM, 20 x 30 cm (8"x12") bag plants (from nursery to Plantation site = 50 KM - 5 KM = 4	n 2.4.7	1200	672.3		672.3	100	8068	June / July
		1000	4.917		4.917	1	4917	June / July
Cost of Chemical fertilisers ( 20 gm. DA for plant).1000*1=1000/100=10 Kgs	As per acutals	10	40		40	1	400	June / July
making 3 holes of 10 cmts depth with cro	N 254	1000	55.88		55.88	100	559	June / July
painting, lettering and fixing	<sup>g</sup> 5.4.26	1	5221.96		5221.96	1	5222	July
Reopening of of 45 X 45 X 45 cm. = 0.09	1 2 3 28	200	10.43		10.43	1	2087	August
(RSSR 2018-19 SL. No.20 (e) ii. @ 4.917	it /- 2.5.7	200	4.92		4.92	1	983	June / July
1st Circular Weeding to a radius of 0.5 r around the plant - 1st time during July	1 274	1000	164.813		164.813	100	1648	July / August
around the plant - 2nd time durin	g 274	1000	164.813		164.813	100	1648	Sept/ Oc
depth of 15 cm around the plant durin		1000	290.62		290.62	100	2906	Nov/ Dec
Contingencies							1965	
Total per 1 ha								
For 9.77 ha Watch and ward 1 no 12 Mon (407/day) Total		1 No	1058	2	10582	]1 Mon	616769 126984 743753	
	2   Clearing rank growth at the planting point for plants   Cost of 0.45 m stake- preparation and transportation to site. (RSSR Sl.No.19 Cat-1 (c))   Alignment and stacking including laying base line for teak, casuarina with espacement 3m x 3m (1110 Nos)   Formation and maint. of inspection paths & sector lines in planting year   Digging of 45 cm. cube pits (0.45x0.45x0.45=0.091*228.99=20.866)   RSSR 6 (e)   Transport of Bag plants / Root trainers plants from nursery site to plantation site including loading and unloading upto 5 km lead (approved in Prl CCF (HoFF), A.P., Hyderabad Rc. No.9443/2012/CAMPA, dt. 26.06.2012) 20 x 30 cm (8*x12") bag plants including casuvalities (1000*20%=200+1000=1200)   Transport of Bag plants / Root trainers plants from nursery site to plantation site including casuvalities (1000*20%=200+1000=1200)   Transport of Bag plants / Root trainers plants from nursery site to plantation site including casuvalities (1000*20%=200+1000=1200)   Planting in 0.45 X 0.45 X 0.45 Size pi (RSSR 2021-22 SL. No.20 (e) ii. @ 4.917/each   Cost of Chemical fertilisers ( 20 gm. DAI for plant).1000*1=1000/100=10 Kgs   Application of fertilizer after planting b making 3 holes of 10 cmts depth with croo bar . 10 cm. away from plant amd puttin fertilizers and closing   Cost of Masonry Name board includin painting, lettering and fixing   Replacement of casualties   Reopening of of 45 X 45 X 45 cm. = 0.09 cum. (per cum 200x0.091=20.87/2=10.43)   Planting in 0.45 X 0.45 X 0.45 Si	Description of work   2022-23 (10% hike)     2   3     Clearing rank growth at the planting point for plants   2.1.16     Cost of 0.45 m stake- preparation and transportation to site. (RSSR SI.No.19 Cat- 1 (c))   2.2.1     Alignment and stacking including laying base line for teak, casuarina with sepacement 3m x 3m (1110 Nos)   2.2.3     Formation and maint. of inspection paths & sector lines in planting year   5.4.2     Digging of 45 cm. cube pits (0.45x0.45x0.45=0.091*228.99=20.866)   2.3.9     RSSR 6 (e)   2.3.9     Transport of Bag plants / Root trainers plants from nursery site to plantation site including loading and unloading upoto 5 km lead (approved in Pri CCF (HoFF), A.P., Hyderabad Rc. No. 94332012/CAMPA, dt. 26.05.2012) 20 x 30 cm (8*X12*) bag plants including casuvalities     (1000*20%=200+1000=1200)   2.4.7     Transport of Bag plants / Root trainers plants from nursery site to plantation site including loading and unloading beyond 5 KM extra for every KM, 20 x 30 cm (8*X12*) bag plants (from nursery to Plantation site including casuvalities (1000*20%=200+1000=1200)     Planting in 0.45 X 0.45 X 0.45 Size pit (RSSR 2021-22 SL. No.20 (e) ii. @ 4.917/- each   2.5.7     Cost of Chemical fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cm. away from plant amd putting fertilizers and closing   5.4.26     Reopening of of 45 X 45 X 45 Cm. = 0.091 cum. (per cum 200x0.091=20.87/2=10.	Description of work2022-23 (10% hike)Qty.234Clearing rank growth at the planting point for plants2.1.161000Cost of 0.45 m stake- preparation and transportation to site. (RSSR SI.No.19 Cat- (C))2.2.110001(C))Alignment and stacking including laying base line for teak, casuarina with espacement 3m x 3m (1110 Nos)2.2.31000Formation and maint. of inspection paths & sector lines in planting year5.4.2200Digging of 45 cm. cube pits (0.45x0.45x0.45=0.091*228.99=20.866)2.3.91000RSSR 6 (e)Transport of Bag plants / Root trainers plants from nursery site to plantation site including loading and unloading upto 5 km lead (approved in Pr1 CCF (HoFF), A.P., Hyderabad Rc. No 2.4.42.4.41200943/2012/CAMPA, dt. 26.06.2012 20 30 cm (8*X12") bag plants including casuvalities (1000*20%=200+1000=1200)2.4.7Transport of Bag plants / Root trainers plants from nursery site to plantation site including loading and unloading beyond 5 KM extra for every KM, 20 x 30 cm (8*X12") bag plants (from ease) to blantation site including casuvalities (1000*20%=200+1000=1200)2.4.7Planting in 0.45 X 0.45 X 0.45 Size pit for plant).1000*1=1000/100=10 Kgs2.5.71000Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar. 10 cm. away from plant amd putting fertilizers and closing2.5.41000Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar. 10 cm. away from plant and putting fertilizers and closing2.5.7200App	Description of work   2022-23 (10% (hike)   Qty.   Rate (Rs.)     2   3   4   5     Clearing rank growth at the planting point prants   2.1.16   1000   275.418     Cost of 0.45 m stake- preparation and transportation to site. (RSSR SI.No.19 Cat- 1.(c))   2.2.1   1000   67.287     Alignment and stacking including laying base line for teak, casuarina with espacement 3m X 3m (1110 Nos)   2.2.3   1000   126.19     Formation and maint. of inspection paths & sector lines in planting year   5.4.2   200   10.54     Digging of 45 cm. cube prits (0.45x0.45x0.45=0.091*228.99=20.866)   2.3.9   1000   20.87     Transport of Bag plants / Root trainers plants from nursery site to plantation site including loading and unloading ubc 50 KM extra for wery KM. 20 X 30 cm (8*x12') bag plants (from nursery isle to plantation site including loading and unloading beyond 5 KM extra for wery KM. 20 X 30 cm (8*x12') bag plants (from nursery to Plantation site 50 KM - 5K M = 45 KM) 14.9445=672.3 per 100 including loading and unloading beyond 100 including loading is the plant including 2.5.4   1000   672.3     Planting in 0.45 X 0.45 X 0.45 Size pit (RSSR 2021-22 SL. No.20 (e) ii. @ 4.917/ each   2.5.	Description of work   2022-23 (10% hike)   Qly.   Rate (Rs.)   Add 25 % Add     2   3   4   5   B     Clearing rank growth at the planting point for plants   2.1.16   1000   275.418   I     Cost of 0.45 m stake- preparation and transportation to site. (RSSR SI.No.19 Cat- 1(c))   2.2.1   1000   67.287   I     Jagament and stacking including laying base line for tesk, casuarina with sector lines in planting year   2.2.3   1000   126.19   I     Digging of 45   cm. cube pits sector lines in planting year   2.3.9   1000   20.87     Transport of Bag plants / Root trainers plants from nursery site to plantalon site including loading and unloading upto 5 km lead (approved in Pfl CCF (HoFF), A.P., Hyderabad Rc. No 944/32012/CAMPA, dt 2.60.62012) 20 x 3 00   2.4.4   1200   421.96     Transport of Bag plants / Root trainers plants from nursery site to plantalon site including loading and unloading beyon 5 KM estra for every KM, 20 30 cm (%r12) bag plants (from nursery to Plantalon site = 50 KM - 54 KM = 45 (RSSR 201-22 SL. No.20 (e) ii. @ 4.9177   2.5.7   1000   4.917     each   Cost of Chemical fertilisers (20 gm. DAP As per acutals   As per acutals   10   40     Cost of Chemical fertilisers (20 gm. DAP As per abril	Description of work   2022-23 (h)% hke)   Qty.   Rate (Rs.)   Add 25 % AA   Total     2   3   4   5   5   7     Clearing rank growth at the planting point transportation to site. (RSSR S1No.19 Cat. 1c)   1.16   1000   275.418   275.42     Cost of 0.45 m stake- preparation and transportation to site. (RSSR S1No.19 Cat. 1c)   1000   67.287   67.287     Alignment and stacking including laying base line for teak, casurina with espacement 3m x 3m (1110 Nos)   2.2.3   1000   126.19   126.19     Formation and maint, of inspection paths & sector lines in planting year   5.4.2   200   10.54   10.54     Digging of 45 cm. cube pits (0.45x0 45x0 45x0 45x0 45x0 20.872) 20 x30 cm (WX1 2b apt plants including loading and unloading uplo 5 km lead (approved in P1 CCF (14PF), AP. Hydenbad Rc. No. 94432012/CAMPA, dt 26 06.2012) 20 x30 cm (WX1 12 4475.872.3) em 100 including loading and unloading upon 5 kM exits for every KM. 20 x30 cm (WX27) 20 x30 cm (WX1 12 4475.872.3) em 100 including loading and unloading upon 5 kM exits for every KM. 20 x30 cm (WX27) applants (from runsery to Plantalion sile = 50 KM - 5 KM = 45 KM 14 94475.872.3) em 100 including casuralites (1000°28+200+1000)   2.4.7   1200   672.3   672.3     Planting in 0.45 X 0.45 X 0.45 Size pit (RSSR 2012-1200/MPCH = 200)   2.5.7   1000   4.917	Description of work   2022-23 (N, hike)   City.   Rate (Rs.)   Add 25 % AA   Total   Per     2   3   4   5   6   7   8     Chearing rank growth at the planting point for plants   2.1.16   1000   275.418   275.42   100     Cost of 0.45 m stake- preparation and cransportation to site. (RSSR SI.No.19 Cat.   2.2.1   1000   67.287   100   10   11   10   11   10   11   100   126.19   126.19   100   126.19   100   126.19   100   126.19   100.54   1   100   100   126.19   100.54   1   100   126.19   100.54   1   100   100   20.87   1000   20.87   1   185.85   1000   20.87   1   100   <	Description of work   2022-23 (10)   City (Rs.)   Rate (Rs.)   Rate (Rs.)   Total (Rs.)   Per (Rs.)   Amount (Rs.)     2   3   4   5   5   7   8   9     Clearing rank growth at the planting point plants   2.1.16   1000   275.418   275.42   100   67.287     Adjamment and stacking including laying base line for teak, casuarina with sect insis inplanting year   2.2.1   1000   126.19   126.19   100   126.21     Formation and maint. of inspection paths 6   5.4.2   200   10.54   1   2108     Deging of 45   cm. cube pits responsed 150, color 228.292.05 20.057   20.87   1   20866     RSSR 6 (e)   7   30   20.67   20.87   1   20866     Transport of Bap plants / Root trainers plants from mursery lise to plantals near including casuardise (1000/20%-200-1000-1200)   24.4   1200   421.96   421.96   100   5064     MXX012CAMMA, d.2.66.20.127.80 20.050   color 20%-200-1000-1200)   24.7   1200   672.3   1000   5064     MXX0142AM-47.32.80 cr 10

83739 or 83800

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District Forest Officer Kakinada Division, Kakinada 23

26.06 2023

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## Data for 1st Year maintenance of Non Teak Hard wood Species Plantation 1000plants /ha

				Unit		1 ha	Espacemen	t : 1000pla	nt /ha.	
SI. No	Cultural Operations	FSR 2022- 23 (10% hike)	Qty.	Rate (Rs.	-	Add 25 % AA	Total	Per	Amount (Rs.)	Calender of operation s
1	2	3	4	5		6	7.00	8	9	10
1	Ist Circular Weeding to a radius of 0.5 m. around the plant - 1st time during July / August and 2nd time during September / October (PCCF Rc.No. 9443/ 2012/ CAMPA, dt.05.10.2012)	2.7.4	1000	164.8	81		164.81	100	1648	July / August
2	2nd Circular Weeding to a radius of 0.5 m. around the plant - 1st time during July / August and 2nd time during September / October (PCCF Rc.No. 9443/ 2012/ CAMPA, dt.05.10.2012 ) 2nd time	2.7.4	1000	164.8	81		164.81	100	1648	Sept/ Oct
3	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows in High rainfall zone > 800 mm (as approved in FSR Zonal committee meeting dt.21.03.2013)	2.6.2	1	2291.4	432		2291.43	1	2291	July / Aug
4	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows in High rainfall zone > 800 mm (as approved in FSR Zonal committee meeting dt.21.03.2013)	2.6.2	1	2291.4	132		2291.43	1	2291	Oct / Nov
5	Soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant during November/ December.	2.7.5	1000	290.6	52		290.62	100	2906	Oct / Nov
	Maintenance of inspection paths and sector lines	5.4.3	100	3.35	5		3.36	1 Rmt	336	Jan/Feb
6	Contingencies								269	
	Total								11390	
	For 9.77 ha								111276	
	Watch and ward 1 no 12 Mon (407/day)		1 No	10	582		10582	1 Mon	126984	
	Total .								238260	
							1 ha rate		24387	

2023-24 2024-25 2025-26

24387 26826 29508 or 29500

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Kakinada Division, Kakinada

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# Data for 2nd Year maintenance of Non Teak Hard wood Species Plantation 1000plants /ha

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				Unit	1 ha	Espacemer	nt : 1000pla	int /ha.	
SI. No	Cultural Operations	FSR 2022-23 (10% hike)	Qty.	Rate (Rs.)	Add 25 % AA	Total	Per	Amount (Rs.)	Calende of operation s
1	2	3	4	5	6	7.00	8	9	10
1	Ist Circular Weeding to a radius of 0.5 m. around the plant - 1st time during July / August and 2nd time during September / October (PCCF Rc.No. 9443/ 2012/ CAMPA, dt.05.10.2012)	2.7.4	1000	164.81		164.81	100	1648	July / August
2	2nd Circular Weeding to a radius of 0.5 m. around the plant - 1st time during July / August and 2nd time during September / October (PCCF Rc.No. 9443/ 2012/ CAMPA, dt.05.10.2012 ) 2nd time	2.7.4	1000	164.81		164.81	100	1648	Sept/ Oc
3	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows in High rainfall zone > 800 mm (as approved in FSR Zonal committee meeting dt.21.03.2013)	2.6.2	1	2291.43		2291.43	1	2291	July / Aug
4	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows in High rainfall zone > 800 mm (as approved in FSR Zonal committee meeting dt.21.03.2013)	2.6.2	1	2291.43		2291.43	1	2291	Oct / No
5	Soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant during November/ December.		1000	290.62		290.62	100	2906	Oct / Nov
	Maintenance of inspection paths and sector lines	5.4.3	100	3.66		3.66	1 Rmt	366	Jan/Feb
6	Contingencies				1			286	
	Total							11437	
	For 9.77 ha							111740	
	Watch and ward 1 no 12 Mon (407/day)		1 No	10582		10582	1 Mon	126984	
	Total 1ha rate							238724	
						1 ha rate		24434	

2023-24	S	24434
2024-25	•	26878
2025-26		29566
2026-27		32522

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32522 or 32600

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Kakinada Division, Kakinada

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## Data for 3rd Year to 5th year maintenance of Non Teak Hard wood Species Plantation 1000plants /ha

	-			Unit	1 ha	Espacemen	t : 1000pla	nt /ha.	
SI. No	Cultural Operations	FSR 2022-23 (10% hike)	Qty.	Rate (Rs.)	Add 25 % AA	Total	Per	Amount (Rs.)	Calende of operation s
1	2	3	4	5	6	7.00	8	9	10
1	Circular Weeding to a radius of 0.5 m. around the plant - 1st time during July / August and 2nd time during September / October (PCCF Rc.No. 9443/ 2012/ CAMPA, dt.05.10.2012)		1000	164.81		164.81	100	1648	July / August
2	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows in High rainfall zone > 800 mm (as approved in FSR Zonal committee meeting dt.21.03.2013)	2.6.2	1	2291.43		2291.43	1	2291	July / Aug
3	Soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant during November/ December.		1000	290.62		290.62	100	2906	Oct / No
4	Maintenance of inspection paths and sector lines	5.4.3	100	3.66		3.66	1 Rmt		Jan/Feb
5	Contingencies				3			241	-
	Total							7453	
	For 9.77 ha Watch and ward 1 no 12 Mon (407/day) Total 1ha rate		1 No	10582		10582 1 ha rate	]1 Mon	72812 126984 199796 20450	
	2023-24 2024-25 2025-26 2026-27 3rd year maint - 2027-28	20450 22495 24744 27219 29941	or	30000					

32935 or

36228 or

3rd year maint - 2027-28 4th year Mainenance - 2028-29 5th year Mainenance - 2029-30

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30000 33000 36300

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Kakinada Division, Kakinada

## Data for 6th year to 10th year maintenance of Non Teak Hard wood Species Plantation 1000plants /ha

				Unit	1 ha	Espacemen	t : 1000pla	nt /ha.	
SI. No	Cultural Operations	FSR 2022-23 (10% hike)	Qty.	Rate (Rs.)	Add 25 % AA	Total	Per	Amount (Rs.)	Calender of operation
1	2	3	4	5	6	7.00	8	9	s 10
1	Maintenance of firelines	5.4.3	100	3.66		3.66	1 Rmt		Jan/Feb
2	Contingencies							11	
	Total for 1 ha				- -			377	

2023-24	377	
2024-25	415	
2025-26		
2026-27	456	
2027-28	502	
2028-29	552	
2029-30	607	
6th year Mainenance - 2030-31	668	
7th year Mainenance - 2031-32	735 or	
8th year Mainenance - 2031-32	808 or	
9th year Mainenance - 2032-33	889 or	
10th year Mainenance - 2033-34	978 or	2
10th year Mainenance - 2034-35	1076 or	

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