

Compensatory Afforestation (C.A) Scheme-for the identified 4.00 Ha.Degraded Forest Land in Compt.No.155, Edugurallapalli R.F., Edugurallapalli Beat, Kunavaram Range of Chintur Division in lieu of Diversion of Forest land 3.89 of Forest area in Chintur Range, Chintur Division for formation of Road from R & B Road to Narasingapeta in favour of Executive Engineer, PR(PIU) Division, Kakinada.

1)Introduction:-

The Executive Engineer, PR(PIU) Division, Kakinada has submitted proposals for Diversion of Forest area to an extent of 3.89 Ha in Compt.No.151, RHRF Extn. RF, Compt.No.180, Pulusumamidi Extn-I R.F., Compt.No.65 of Pulusumamidi R.F., Compt.No.66 of Mattapally RF and Compt.No.178 of Pulusumamidi Extn-II of Chintur Range for formation of Road from R & B Road to Narasingapeta in Chintur Division. While processing the proposal at Government level, due to expiry of general approval for public infrastructure projects in LWE District by 31.12.2020, the GoAP, MoEPS & T.A.P., has instructed to identify suitable Non- Forest Land and submit details C.A land, C.A Scheme, Site Suitability Certificate etc., for processing the proposal vide Govt.Memo.No.966/Sec.II/2021, Dt.22.06.2021 communicated by the PCCF, A.P., Guntur Rc.No.EFS02-15034/66/2020-FCASEC-PCCF/FCA, Dt.28.09.2021. Subsequently, the User Agency has handedover the identified Non- Forest Land 3.93 Ha. in Yetimoga Village of Kakinada(U) Mandal to the DFO, Kakinada. The DGPS survey was conducted and authenticated the survey map by the PCCF, Guntur Rc.No.Rc.No.EFS02-15034/66/2020-FCASEC-PCCF/FCA-3, Dt.21.11.2022.

At this stage, the DFO, Kakinada in the reference Rc.No.694/2022/D1, Dt.28.01.2023 has informed to this office that, the identified Non- Forest Land (3.93 ha.) towards C.A is having full of mangrove vegetation and not possible to take up CA Plantation in the said land and requested to take action according to Condition No.2.4(vi) of Handbook guidelines & Clarification issued under Forest Conservation Act,1980. As per the said 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 the working plan prescriptions. All forest lands which have crown density below 40 percent should be treated as degraded forest land for the purpose of CA." As part of the same, an extent of 4.00 Ha. of Degraded Forest Land (DFL) has been identified in this Division. The location details of degraded forest land identified are as follows:-

Sl. no.	Division	Range/Beat	R.F.	Compt. No.	Area in Ha.	Lat.	Long.
1	Chintur	Kunavaram/ Edugurallapalli (E.D.Palli)	Edugurallapalli (E.D.Palli)	155	4.00	17.747111	81.186389
						17.747385	81.188243
						17.745620	81.188283
						17.745576	81.186533

The Compensatory Afforestation Scheme proposals are prepared with a total financial outlay of Rs.71.352 Lakhs to be implemented with a maintenance period of 10 Years starting from 2023-24 to 2035-36 and plantation protection upto 2044-45.

2) Aim and Objectives:-

The main aim of the project is to develop Degraded Forest Land over an area of 4.00 ha over a period of 10 years with the active involvement of local people to meet their future needs. The project envisages the following objectives:

- To compensate the loss sustained due to diversion of forestland.
- To increase the productivity and sustainability of the forest resources through improved management and silvicultural practices with planting of high quality planting material including soil and moisture conservation works.
- To generate employment to Schedule tribes in agency area in order to prevent migrations.

3) Type of C.A Land:-

The proposed Compensatory Afforestation areas identified in the Degraded Forest Land is Sandy loam with clay mix with good drainage and suitable for raising Plantation with the native Forest species.

4) Vegetation:-

The vegetation that is existing to the adjoining degraded land are *Terminalia tomentosa*, *Adina cordifolia*, *Maslinia indica*, *Pterocarpus marsipium*, *Buchanania arguistifolia*, *Acacia leucocephala*, *Diospyros velimoxylon*, *Lagerstromia perflorata* etc. The degraded forest land is falling under Tropical southern dry mixed deciduous forests (5A/C3) under Champion and Seth classification.

5) Treatments Proposed:-

Raising of NTSHW, NTFP & Teak species under AR LIM method:- It is proposed to raise NTSHW, NTFP and Teak species Plantation over 4.00 Ha. adopting the traditional method with an espacement of 3 m X 3 m under Labour Intensive Method through intensive site preparation practices. The operations to be carried out are Survey and demarcation and planting at 3 X 3 m espacement in 45Cms. cubic pits. All other cultural operations like site preparation, transportation and alignment of stakes ,digging of pits, Soil workings, planting of plants etc., will be provided., The raised plantations will be maintained over a period of 10 years to ensure good results.

Soil Moisture and Conservation(SMC) works :- For this purpose, provision is made with 15% on the Plantation and other associated works cost for taking up the Soil and Moisture Conservation Works such as Continuous Contour Trenches(CCTs)/ Staggered Trenches(STs), Percolation Tanks(PTs), Rock Fill Dams(RFDs) and Check Dams(CDs) and other allied activities to improve ground water regime and to reduce soil erosion.

Protection of NFL-CA :- Construction of Boundary Pillars around the identified NFL in Yetimoga, Kakinada(U) Mandal, Kakinada Division is proposed and Rs.10.00 Lakhs proposed for protection of said area for 20 years.

Administrative Costs:- For this purpose, provision is made with 5% of the Plantation cost to meet the expenses such as Office expenses like stationery, modern office equipment etc.,

6) Proposed species for planting :- Considering the terrain and condition of soil the following species are proposed or planting.

S.no.	Species
1	<i>Pterocarpus marsipium</i>
2	<i>Terminalia arjuna</i>
3	<i>Terminalia tomentosa</i>
4	<i>Gmelina arborea</i>
5	<i>Dalbergia latifolia</i>
6	<i>Albizia odoratissima</i>
7	<i>Albizia procera</i>

8	<i>Mitragyna parvifolia</i>
9	<i>Adina cordifolia</i>
10	<i>Tectona grandis</i>
11	<i>Soymbia febrifuga</i>
12	<i>Madhuca indica</i> etc.

7) **Agency for Funding** :- The Executive Engineer, PR(PIU) Division, Z.P. Compound, Kakinada.

8) **Agency for the implementing C.A Scheme**- The A.P. Forest Department/ Divisional Forest Officer, Chintur Division, Chintur.

9) **Cost of the Scheme** The total financial out lay of the project is Rs.71.352 Lakhs, the annual requirement of funds have been worked out on the base cost of 2022-23 FSR with 10% annual escalation for the remaining project period up to 2035 - 2036. The component wise details in brief are as follows:-

		Rs.in Lakh
1	Raising of Plantation and other associated works	52.359
2	SMC Works	2.975
3	Administrative Cost	2.618
4	Protection of NFL for 20 years & Construction of Boundary Pillars	13.400
	Total:-	71.352

The Year wise works proposed and financial outlay of the above project is submitted in separate statement.


 28/05/23
 Divisional Forest Officer (FAC),
 Chintur Division, Chintur.

**SITE INSPECTION REPORT OF COMPENSATORY AFFORESTATION
AREA (NON FOREST C.A LAND) OVER AN EXTENT OF 3.93 HA.
IN KAKINADA RANGE OF KAKINADA (TERRITORIAL) DIVISION.
Dt:28-01-2023**

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 an extent of 3.93 ha of Compensatory afforestation Land identified in Kakinada Division in lieu of diversion of forest land of 3.89 ha in Compt.no.181 of R.H.R.F. Extn. RF, Compt.no.180 Pulusumamidi Extn-I RF, Compt.no.65 of Pulusumamidi RF, Compt.no.66 of Mattapally RF and Compt.no.178 of Pulusumamidi Extn-II RF Chintur Division for formation of road from R&B road to Narasingapeta 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 3.93 ha. in Kakinada division of East Godavari district as follows:

Sl. No.	Name of the Range	Name of the area	Total extent of area	Sy.no
1	Kakinada	Yetimoga village of Kakinada Urban Mandal of Kakinada Section	3.93ha.	Yetimoga village


The CA Area was inspected by me on 28-01-2023 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.**

Hence, it is required to identify the degraded forest land for Compensatory Afforestation to plant @1000 plants/ha for 3.93 ha.


District Forest Officer,
Kakinada Division, Kakinada.

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28/01/2023

C.A Scheme Proposals for Afforestation of 4.00 Ha.Degraded Forest Land (DFL) identified in Compt.No.155, Edugurallapalli R.F., Edugurallapalli Beat, Kunavaram Range of Chintur Division in lieu of Diversion of Forest Area for formation of Road from RA B Road to Narasingapeta in Chintur Division in favour of E.E., PR(PIU) Division, Kakinada.

ABSTRACT OF PHYSICAL AND FINANCIAL OUTLAY

(Fin.in lakh)

Sl. No.	Item of work	Units	2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		2031-32		2032-33		2033-34		2034-35		2035-36		Total			
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin		
1	Raising of Nurseries	No.s	6000	0.897																										6000	0.897	
2	Maint. of Nurseries	No.s			6000	0.305																								6000	0.305	
3	Nursery Infrastructure	LS		2.500																											2.500	
4	Advance operations for Raising of Plantation(AR)	Ha.			4.00	2.11																								4.00	2.110	
5	Raising of Plantation(AR)	Ha.					4.00	4.089																						4.00	4.089	
6	Maintenance of Plantation(AR)																													4.00	3.206	
	1st Year Maintenance	Ha.						4.00	3.206																					4.00	3.015	
	2nd Year Maintenance	Ha.								4.00	3.015																			4.00	3.316	
	3rd Year Maintenance	Ha.										4.00	3.316																	4.00	3.470	
	4th Year Maintenance	Ha.												4.00	3.470															4.00	3.817	
	5th Year Maintenance	Ha.														4.00	3.817													4.00	4.199	
	6th Year Maintenance	Ha.																4.00	4.199											4.00	4.619	
	7th Year Maintenance	Ha.																	4.00	4.619										4.00	5.080	
	8th Year Maintenance	Ha.																			4.00	5.080								4.00	5.589	
	9th Year Maintenance	Ha.																				4.00	5.589							4.00	6.147	
	10th Year Maintenance	Ha.																					4.00	6.147						4.00	6.147	
	Sub.Total:-		3.397	2.416	4.089	3.206	3.015	3.316	3.470	3.817	4.199	4.619	5.080	5.589	6.147																52.359	
9	SMC Works (CCTV/STs/WTs/RFDs/CD's)(15%)	LS		0.510		0.362		0.613		0.481		0.452		0.497		0.059																2.975
11	Administrative cost (Over Heads) (5%)	LS		0.170		0.121		0.204		0.160		0.151		0.166		0.174		0.191		0.210		0.231		0.254		0.279		0.307			2.618	
	Sub.Total:-		0.679	0.483	0.818	0.641	0.603	0.663	0.723	0.791	0.810	0.821	0.850	0.880	0.910																5.593	
	DFL Total:-		4.076	2.899	4.907	3.847	3.618	3.980	3.703	4.008	4.409	4.850	5.335	5.868	6.455																37.952	
12	Protection for NFL for 20 Years i.e., up 2044-45	LS																													10.00	
13	Construction of Boundary Pillars for NFL	Nos			17	3.400																								17	3.400	
	NFL Total:-																														13.400	
	GrandTotal:-		4.076	6.299	4.907	3.847	3.618	3.980	3.703	4.008	4.409	4.850	5.335	5.868	6.455																71.352	

Divisional Forest Officer (FAC),
Chintur Division, Chintur.

Data for Raising of 50,000 Nos "8X12" size bag plants Nursery

Sl. No	Qty.	Description of work	FSR 2022-23 Item No.	Rate	Agency Allowance 25%	Total	Per/ Unit	Amount
1	50 Nos.	Site preparation for old site - Clearing of growth, weeds, grass etc. for old sites (i) Site preparation in 10 m X 1 m size bed 20x30 cm (8"x12") Bags	1.7.2	10.57	2.6425	13.2125	Bed	661
2	156.4 Kgs	Cost of polythene bags (15% extra @ 366 Nos per kg, 50000/366 =136 kgs + add 15%)	1.7.13	168.00		168	1	112224
3	50000 Nos	Cost and transport of ingredients for potting mixture Red earth, Sand, Tank silt / Clay and FYM / Vermi compost in 2:1:1:1:1 ratio. 20 X 30 cm (8"x12") - 1.12 cum	1.7.6 (As per CSSA)	1068.21		1068.21	1000	53411
4	55000	Preparation of potting mixture Red earth, sand, Tank silt/clay and FYM/Vermi-compost 2:1:1:1:1 ratio by powdering of various ingredients, sieving and mixing them in the prescribed proportion. Opening the bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds 20 X 30cm (8" X 12")	1.7.12	3279.89	819.97	4099.86	1000	225492
5	55000	Cost of Seeding	As per lowest quotation	1.5	0.00	1.50	Each	82500
6	55000	Picking out seedlings from primary beds and transplanting in bags.	1.9.7	191.29	47.82	239.11	1000	13151
7	50000	Cost of chemicals, insecticides, pesticides etc., for bag plants.	1.10.56 (As per Actuals)	10000			LS	10000
8	50000 Nos/ 3 months	Watering the bag plants arranged in 10m x 1m size bed 20x30 cm (8"x12") (800 nos / bed) twice a day.	1.10.14	441.95	110.49	552.44	1000	82866
9	50000 Nos./ 4times	Weeding only four times for 10 m X 1 m size bed 20x30 cm (8"x12") bags (800nos / bed)	1.10.18	85.23	21.3075	106.5375	1000	21308
10	50000 Nos./ 2 times	Cost of cow dung slurry	1.10.58 (As per actuals)					10000
11	50000 Nos.	Application of cow dung slurry at the rate of 100 ml to 250 ml. per plant depending upon the size of the plant monthly twice maximum of 3 times. (Once in raising and 2 times in maintenance) Note: Watering should not be done 12 hours before and after application of cow dung slurry.	1.10.59	283.06	70.765	353.825	1000	17691
12	50000 Nos./ 1 time	Shifting & grading and rearranging in beds for 10mx1m size bed 20x30 cm(8" X12") bags (800 nos/ bed) only once in raising year.	1.11.4	358.05	89.5125	447.5625	1000	22378
13	50000	Replacement of casualties after sorting out the empty bags	1.9.16	11.44	2.86	14.3	100	7150
14	1500 Nos / 25 Km	Brush wood fencing around the planting area: Thorny fencing with sturdy thorn material of 10 cm. girth (at the butt end) and fixing in crow bar holes and strengthening with stone pecking. The average height of fence should be 1.5 m and fencing material should be fixed in 2 rows (staggered) at 30 cm apart. The fence should be tightened horizontally by tying with thorny reapers on both sides.	5.3.1 (RSSR 21.A)	30.54		30.54	Rmt	784
15		Contingencies towards nursery implements, Oil Engine Running and maintenance charges, Electricity bills etc.						19905
			Total :					679500

per plant

	2022-23	679500	13.59
Add 10% extra	2023-24	747450	14.95
Add 10% extra	2024-25	822195	16.44
Add 10% extra	2025-26	904415	18.09
Add 10% extra	2026-27	994856	19.92

Divisional Forest Officer
Chintur Division, Chintur

Data for 1st Year Maintenance Of 8 x12 Bag Culture Nursery

Sl. no	Quantity	Description of work	FSR 2022-23 Item No.	Rate			Unit	Total Amount
				Rate	Add 25%	Total		
Maintenance of Bag Nursery From April to July								
1	50000	Watering the bag plants arranged in 10m x 1m size bed 20 x30 cm ("8X12") (800 nos / bed) twice a day.	1.10.22	441.95	110.488	552.44	1000/ month	110488
2	50000	Weeding only four times for 10 m X 1 m size bed 20 x 30 cm (8"X 12") bags (800nos / bed)	1.10.26	85.23	21.3075	106.54	1000/ Month	21308
3	50000	Cost of cow dung slurry	1.10.58 (As per actuals)	Actuals	0	200	1000 nos	10000
	50000	Application of Cow dung Slurry at the rate of 100ml to 250ml per plant depending upon the size of the plant (Maintenance two times) Note: Watering should not be done 12 hours before and after application of cow dung slurry.	1.10.59	283.06	70.765	353.825	1000/ time	17691
4	50000	Shifting & grading and rearranging in beds for 10mx1m size bed 20 x30 cm(8" X12") bags (800 nos/ bed) - 2 time Maximum two shifts in maintenance year	1.11.8	358.05	89.5125	447.56	1000/ shift	44756
5	L/s	Contingencies						6257
					Total			210500

		Per plant	
		2022-23	210500 4.21
Add 10% extra		2023-24	231550 4.63
Add 10% extra		2024-25	254705 5.09
Add 10% extra		2025-26	280176 5.60
Add 10% extra		2026-27	308193 6.16


 23/05/23
 Divisional Forest Officer, ~~Chintur~~
 Chintur Division, Chintur

Data for Advance Operations for Raising of NTSHW Plantation (AR Modal) (1 Ha)

Espacement: 3m x 3m

S. no.	Quantity	Description of work	FSR 2022-23 Item No.	Rate	Per	25% Agency allowance on labour component	Rate	Total
1	1 Ha.	Survey Demarcation and cutting of 2 meter lines (8 Rmt)	5.1.1 one randy as per RSSR	245	Plantation	0.00	245	245
2	1	Preparation of site for planting by clearing thorny unsuitable, unusable jungle growth, creepers, bushes etc., spreading the cut material allow the site and burning the same. Medium jungle growth (> 30% ground area covered with jungle growth)	2.1.4	12217.03	Ha	3054	15271	15271
3	1111	Alignment and staking including laying base line for miscellaneous species with espacement 3mX3m (1111 Ha)	2.2.5 RSSR 18 (B)	114.72	100 nos.	0.00	114.72	1275
4	1111	Cast of 0.45 H Stake preparation and transportation to site.	2.2.1 RSSR 18 (C)	61.17	100 nos.	0.00	61.17	660
5	1111	Digging of 0.45mts x0.45 mts. x 0.45mts. Size pit.(0.091125 cum per one pit)	2.3.4 (RSSR item no.71e)	245	Cum	0	245.00	24804
6		Contingencies		La				1326
				Total		0		43608

2022-23 45600
 Add 10% extra 2023-24 47900
 Add 10% extra 2024-25 52756
 Add 10% extra 2025-26 58032
 Add 10% extra 2026-27 63835


 Divisional Forest Officer,
 Chitbur Division, Chitbur

Data for Raising of NTSHW Plantation under AR Method (1 Ha.)

ESP: 3 m K 3m (1111/Ha.)

Sl No	Name of the work	FSR 2022-23 Item No	Qty	Rate	Add 15% agency allowance	Total	Per	Amount
Raising Operations								
1	Transport of Bag plants / Root trainer plants from Chintur nursery site to plantation site including loading and unloading upto 5 km lead - (Total 50 20 x 30 cm (8"x12") bag plants	2.4.4	1111	383.60	0.00	383.60	100 Nos	4202
2	Transport of Bag plants/ Root trainer plants from Buttaigudem Central nursery site to plantation site including loading and unloading beyond 5 km lead - extra for every km for 20 km 20 x 30 cm (8"x12") bag plants	2.4.8	1111	672.30	0.00	672.30	100 Nos	7499
3	Internal transport of Bag Plants / root trainers to planting points on head leads - 20 x 30 cm (8"x12") bag plants	2.4.10 (As per RSR Sl.no.18(a))	1111	61.17	0.00	61.17	100 Nos	680
4	Planting bag plants in 45cmx45cmx5cm pits (RSR No. 18 e) (I) GO HS No. 27, PRARD (RD-II) Dept. Dt.22-04-2021]	2.5.7(As per RSR Sl.no.18(e))	1111	4.47	0.00	4.47	Each	4966
5	Basal Dressing a) Cost of Chemical Fertilisers (50gm SSP for basal dressing, 20 gm. DAP after planting for 30 cmx3 & 45 cmx3 pits) for all plantations in raising year - (50gm SSP for basal dressing, [Cost of one bag of SSP 50kgs @Rs.400/- as per market prevailing rates. 1111*0.028= 55.55 Kgs	2.5.3 (I) As per market prevailing rates based on three minimum quotations	55.6	9.00	0.00	8.00	kg	444
6	b) Cost of Chemical Fertilisers (50gm. SSP for basal dressing, 20 gm. DAP after planting for 30 cmx3 & 45 cmx3 pits) for all plantations in raising year - (50gm SSP for basal dressing, [Cost of one bag of SSP 50kgs @Rs.1400/- as per market prevailing rates. 1111*0.028= 22.20 Kgs	2.5.3 (I) As per market prevailing rates based on three minimum quotations	22.22	29.78	0.00	28.00	kg	622
7	Application of fertilisers	2.5.4	1111	50.00	12.70	63.50	100 Nos	705
8	Formation of saucer around the plant (at the times of planting) during June/July in hard gravelly soils.	2.7.9	1111	330.40	55.12	275.60	100 Nos	3302
Replacement of Capacities upto a maximum of 20% (NTSHW)								
9	Reopening of pits - 45 Cm cube pit-	2.3.36 (As per RSR Sl.no.10(a))	222	15.51	0.00	15.51	Each	3443
10	Transport of Bag plants / Root trainer plants from (Buttaigudem Central nursery site to plantation site including loading and unloading upto 5 km lead - 20 x 30 cm (8"x12") bag plants	2.4.2	222	383.60	0.00	383.60	100 Nos	852
11	Transport of Bag plants/ Root trainer plants from Buttaigudem Central nursery site to plantation site including loading and unloading beyond 5 km lead - extra for every km for 20 km 20 x 30 cm (8"x12") bag plants	2.4.6	222	672.30	0.00	672.30	100 Nos	1493
12	Internal transport of Bag Plants / root trainers to planting points on head leads - 12.5x22.5 cm (5"x9") bag plants [RSR No. 18 e (I) GO HS No. 27, PRARD (RD-II) Dept. Dt.22-04-2021]	2.4.10 (As per RSR Sl.no.18(a))	222	61.17	0.00	61.17	100 Nos	136
13	Planting bag plants in 45cmx45cmx5cm pits (RSR No. 18 e (I) GO HS No. 27, PRARD (RD-II) Dept. Dt.22-04-2021]	2.5.7(As per RSR Sl.no.18(e))	222	4.47	0.00	4.47	Each	912
14	Cutting of Copice 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 @ 21.03.2013]	2.6.2	1.00	2081.12	520.78	2602.90	No	2894
15	Circular Weeding to a radius of 0.5 m. around the plant - 1st time during July / August and 2nd time during September / October (PCCF Rr. no.9443/2012/ CAMR, Dt.05.18.2012.)	2.7.10	1133	149.63	37.46	187.28	100 Nos	2081
16	Soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant during November/ December.	2.7.11	1111	416.01	104.00	520.01	100 Nos	5777
17	Brush wood fencing around the planting area: Thorny fencing with sturdy thorn material of 10 cm. girth (at the butt end) and fixing in cross bar holes and strengthening with stone pecking. The average height of fence should be 1.5m and fencing material should be fastened horizontally by tying with thorny reapers on both sides.	5.3.1 (RSR 21 (a))	150	32.54	0.00	32.54	1 Rpt.	4581
18	Watch and Ward for protection of plantation Rs370*26days*9 Months*1 No	As per Collector wage rate	1	9620	0.00	9620.00	per Month	28960
19	Creation of fenceline of 3m wide (approved in FSR Zonal committee meeting @ 21.03.2013)	5.4.4	150	7.85	1.96	9.81	Per mt	1472
20	Contingencies	L/S						2766
						Total		74860
								2022-23
								76856
								84480
								92920
								102223
								112443

Divisional Forest Officer,
Chintur Division, Chintur

Data for 1st Year Maintenance of NTSHW Plantation (1 Ha.)

ESP - 1m30m (1111, N2x250)

S. no.	Quantity	Description of work	FSR Item No.	Rate	Per	Rate including 25% Agency allowance on labour component	Total	Amount
1	277.7	Reopening of Plot (0.45mts x0.45 mts. X 0.45Mts. Size 28.5 x31.125 cum. per site all.)	RSSR 19(a)	15.51	each	0.000	15.51	4307
2	277.7	Transportation of bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead (Total 50 Km lead)-20 x 30 cm (8"x12") bag plants	2.4.2	383.60	100 nos.	0.000	383.60	1065
3	277.7	Transportation of bag plants / Root trainer plants from nursery site to plantation site including loading and unloading beyond 5 km - extra for every km i.e. 20 kms. - 20 x 30 cm (8"x12") bag plants	2.4.4	672.30	100 nos.	0.00	672.30	1867
4	277.7	Internal transport of bag plants/root trainers to planting points on head leads - x 22.5 cm (5"x9") size bag plants	2.4.10 (As per RSSR SI.no.18(d))	61.17	100 nos.	0.00	61.17	170
5	277.7	Planting bag plants in 45cmx45cm pits (RSSR No. 18 e (i) GO MS No. 27, FR&RD (RD-II) Dept, Dt.22-04-2021)	2.5.7(a) (As per RSSR SI.no.18(e))	4.47	no	0.000	4.47	1241
6	13.8	Basal Dressing a) Cost of Chemical Fertilisers (50gm. SSP for basal dressing, 20 gm. DAP after planting for 30 cm3 & 45 cm3 pits) for all plantations in rising year - (50gm. SSP for basal dressing, (Cost of one bag of SSP 50kgs @Rs.400/- as per market prevailing rates. 2777*0.025= 138 Kgs	As per market prevailing rates based on three minimum quotations	9	plant	0.000	9.00	124
7	5.4	b) Cost of Chemical Fertilisers (50gm. SSP for basal dressing, 20 gm. DAP after planting for 30 cm3 & 45 cm3 pits) for all plantations in rising year - 20gm. DAP for plant (Cost of one bag of DAP 50kgs @Rs.1400/- as per market prevailing rates. 2777*0.025= 22.20 Kgs	As per market prevailing rates based on three minimum quotations	25.78	0.00	29.78	kg	167
8	277.7	Application of fertilizer after planting	2.5.4	50.80	100 nos	12.70	63.50	178
9	1	1st 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 NTSW July/August	2.6.2	2083.12	Hec.	520.78	2603.90	2604
10	1111	1st Circular weeding to a radius of 0.5 m around the plant during (Hard GRAVEL) October/November	2.7.10	149.83	100 nos.	37.46	187.29	2081
11	1	2nd 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 NTSW October/November	2.6.2	1282.40	Hec.	315.00	1597.00	1578
12	1111	Soil working to a radius of 50 cm and to a depth of 15 cm around the plant during Nov / Dec. (Hard GRAVEL)	2.7.11	466.01	100 nos.	104.00	570.01	5777
13	1 Now/ 12 Months	Watch and Ward for protection of plantation Ra37D*260kgs*1.2Months*1 No	As per Collector wage rate	9520.00	Per month	0.00	9620.00	28860
14	150	Maintenance of Brushwood Fencing	RSSR Rate 5.3.2	10.18	Rm.	0.00	10.18	1527
15	200	Creation of firelines of 3m wide (Approved in FSR Zonal committee meeting dt. 21.03.2021)	5.4.4	7.85	Amf.	1.06	9.81	1963
16		Contingencies	1%					1733
					Total			94740

2022-23 54740
Add 10% extra 2023-24 60214
Add 10% extra 2024-25 66335
Add 10% extra 2025-26 72859
Add 10% extra 2026-27 80145

29/10/23
Divisional Forest Officer, DE
Chitrak Division, Chitrak

Data for 2nd year to 3rd Year Maintenance of NTSHW Plantation (1 Ha.)

ESP : 3m3cm (1111 No's/Ha)

S. no.	Quantity	Description of work	FSR 2022-23 Item No.	Rate	Per	Rate including 25% Agency allowance on labour component	Total	Amount
1	1	1st 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	2093.12	Ha.	520.75	2603.90	2694
2	1111	Circular weeding to a radius of 0.50m. around the plant during July/ August (HARD GRAVEL)	2.7.10	149.83	100 nos.	37.46	187.29	2061
3	1111	Soil working to a radius of 0.50m and to a depth of 15 cm around the plant during Nov / Dec. (Hard GRAVEL)	2.7.11	416.01	100 nos.	104.00	520.01	5777
4	1	2nd 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 two times for both TEAK and NTSH (for raising and maintenance) October/November	2.6.1	1262.40	Ha.	315.60	1578.00	1578
5	13.8	Cost of Chemical fertilizers (50gm SSP for basal dressing, 20 gm DAP after planting for 30 cm3 & 45 cm3 pits).	2.5.3	9	plant	0.000	9.00	124
6	1111	Application of fertilizer after planting by making 3 holes of 10 cms depth with crow bar - 10 cms away from plant and putting fertilizers and closing	2.5.4	56.80	100 nos	12.70	63.50	705
7	200	Creation of Firelines	5.4.5	8.65	Rmt.	2.16	10.81	2163
8	3 Nos/ 12 Months	Watch and Ward for protection of plantation Rs370*26days*12Months*1 No	As per Collector wage rate	370.00	per Day	0.03		28860
9	150	Maintenance of Brushwood Fencing	RSR Rate 5.3.2	10.18	Rmt.	0.00	10.18	1527
10	1 ha.	Contingences		18				1381
					Total			46890

2022-23	46890
Add 10% extra 2023-24	51490
Add 10% extra 2024-25	56628
Add 10% extra 2025-26	62291
Add 10% extra 2026-27	68529
Add 10% extra 2027-28	75372
Add 10% extra 2028-29	82859
Add 10% extra 2029-30	91000
Add 10% extra 2030-31	100020
Add 10% extra 2031-32	110352
Add 10% extra 2032-33	121387
Add 10% extra 2033-34	133526
Add 10% extra 2034-35	146870
Add 10% extra 2035-36	161586

Divisional Forest Officer
Chintur Division, Chintur

Data for 4th year to 10th Year Maintenance of NTSHW Plantation (1 Ha.)

ESP : 3mo3m (1111 No's/ha)

S. no.	Quantity	Description of work	FSR 2022-23 Item No.	Rate	Per	Rate including 25% Agency allowance on labour component	Total	Amount
1	1	1st 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 266al committee meeting dt.21.03.2013)	2.6.2	2083.12	Ha.	520.78	2603.90	2604
2	1111	Circular weeding to a radius of 0.50m around the plant during July/ August (HARD GRAVEL)	2.7.10	149.83	100 nos.	37.46	187.29	2081
3	1111	Soil working to a radius of 0.50m and to a depth of 15 cm around the plant during Nov / Dec. (Hard GRAVEL)	2.7.11	426.01	100 nos.	104.00	520.01	5777
4	13-8	Cost of Chemical fertilisers (50g/m SSP for basal dressing, 20 gm DAP after planting for 30 cm3 & 43 cm3 pits).	2.5.3	9	plant	0.000	9.02	124
5	200	Creation of firelines	5.4.5	8.05	Rmt.	2.16	10.81	2103
6	1 Nos/ 12 Months	Watch and Ward for protection of plantation Ra370*26days*12Months*1 No	As per Collector wage rate	370.00	per Day	0.00		28000
7	150	Maintenance of Brushwood Fencing	RSSR Rate 5.3.2	10.18	Rmt.	0.00	10.18	1527
8	1 ha.	Contingencies		LS				1361
					Total			44517

2022-23	44517
Add 10% extra 2023-24	48969
Add 10% extra 2024-25	53866
Add 10% extra 2025-26	59252
Add 10% extra 2026-27	65177
Add 10% extra 2027-28	71695
Add 10% extra 2028-29	78865
Add 10% extra 2029-30	86751
Add 10% extra 2030-31	95428
Add 10% extra 2031-32	104969
Add 10% extra 2032-33	115466
Add 10% extra 2033-34	127012
Add 10% extra 2034-35	139713
Add 10% extra 2035-36	153685

20/05/23
Divisional Forest Officer
Chitnur Division, Chitnur