

Sl. No	Item of Work	Total Outlay			2017 - 18			2018 - 19			2019 - 20			2020 - 21			2021 - 22			2022 - 23		
		Phy	Unit cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
I	<b>Nurseries &amp; Maintanance</b>																					
1	a) Raising of Primary beds & Raising of Bag plants including conversion	1750000		104.575	250000	0.00004	10.500	250000	0.00005	13.550	250000	0.00006	15.575	250000	0.00007	17.925	250000	0.00008	20.600	250000	0.00009	23.700
2	b) Maintenance of bag plants	1750000		54.800				250000	0.0000198	4.950	250000	0.0000227	5.675	250000	0.0000262	6.550	250000	0.00003	7.500	250000	0.0000345	8.625
3	Borewell	10	2.00000	20.000	6		12.000	4		8.00000												
4	HDPE Pipeline(20Km)	20	5.00000	100.000	20		100.000															
5	Construction of sump(Water storage)	5	5.00000	25.000	5		25.000															
6	Overhead tank	5	1.00000	5.000	5		5.000															
7	Storage facility(Seed & Equipments)	2	10.00000	20.000	2		20.000															
8	Nursery watcher Room	2	10.00000	20.000	2		20.000															
9	Permanent primary beds(10MX1M)	500	0.30000	150.000	500		150.000															
10	Electricity facility(3Phase)			5.000			5.000															
11	Generators	2	3.00000	6.000	2		6.000															
12	Running charges & Electricity charges for nurseries			10.000			2.000			2.00000			2.00000			2.00000			2.00000			
	<b>Sub Total:</b>			<b>520.375</b>			<b>355.500</b>			<b>28.500</b>			<b>23.250</b>			<b>26.475</b>			<b>30.100</b>			<b>32.325</b>
II	<b>Planting activities</b>																					
13	Blasting activities at feaseble areas (500 Ha. X 50 plants) @ 2000/-	25000	0.02000	500.000				5000	0.02	100.000	5000	0.02	100.000	5000	0.02	100.000	5000	0.02	100.000	5000	0.02	100.000
14	Advance Operations	1400	2.35632	1979.938	200.00	0.89	178.908	200.00	1.03	205.744	200.00	1.18	236.606	200.00	1.36	272.096	200.00	1.56	312.912	200.00	1.80	359.848
15	Raising	1400	0.49809	605.688				200.00	0.27	54.730	200.00	0.31	62.940	200.00	0.36	72.380	200.00	0.42	83.238	200.00	0.48	95.724
16	1st Year Maintenance	1400	0.15483	344.116							200.00	0.16	31.094	200.00	0.18	35.758	200.00	0.21	41.122	200.00	0.24	47.292
17	2nd Year Maintenance	1400	0.17585	377.542										200.00	0.17	34.114	200.00	0.20	39.232	200.00	0.23	45.116
18	3rd Year Maintenance	1200	0.19343	434.174													200.00	0.20	39.232	200.00	0.23	45.116
19	4th Year Maintenance	1000	0.21278	499.300																200.00	0.23	45.116
20	5th Year Maintenance	800	0.23405	574.196																		
21	6th Year Maintenance	600	0.25746	660.326																		
22	7th Year Maintenance	400	0.28320	759.374																		
	<b>Sub Total:</b>			<b>6734.654</b>	<b>200.00</b>		<b>178.908</b>	<b>400.00</b>		<b>360.47400</b>	<b>600.00</b>		<b>430.640</b>	<b>800.00</b>		<b>514.348</b>	<b>1000.00</b>		<b>615.736</b>	<b>1200.00</b>		<b>738.212</b>
III	<b>Tending operations</b>																					
23	Singling, Copiecing, Bushcleaning	1400	0.055	77.000	1400		77.000															
	<b>Sub Total</b>			<b>77.000</b>	<b>1400</b>		<b>77.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
IV	<b>Fire Figthing Management</b>																					
24	Machinery (Fire blowers, Fire extinguishers, Auto fireballs, Rackers, Safety helmets, Face shields, Aprons, Breathing apparatus, Weed cutters, Pitting Auger (Hand held), Power weeders, Saws etc.) 50No's each	50		36.813				50		36.813												
25	Fire Watchers (Each@30Ha.-3No's@7500 PM. For 5 Months Jan-May) Rs.1,12,500 For each year	14	1.125	141.750				14		15.750	14		15.750	14		15.750	14		15.750	14		15.750
26	Creation of Fire lines (5 Mtrs Width)	500	0.0683	34.150				100		6.830	100		6.830	100		6.830	100		6.830	100		6.830
	<b>Sub Total</b>			<b>212.713</b>						<b>59.393</b>			<b>22.580</b>			<b>22.580</b>			<b>22.580</b>			<b>22.580</b>
V	<b>Forest Protection</b>																					
27	Construction of boundary pillars	2000	0.2	400.000				500		100.000	500		100.000	500		100.000	500		100.000			
28	Fencing	100	15	1500.000				50		750.000	50		750.000									
29	Construction of wild life passages at Akkapally	5	5.00	25.000	5		25.000															
30	Solar pumpsets for wildlife	5	3.00	15.000				3	3	9.000	2	3	6.000									
31	Watch Towqers	10	5	50.000	0		0.000	4		20.000	4		20.000	2		10.000						
32	Cameras traps	100	0.2	20.000				25		5.000	25		5.000	25		5.000	25		5.000			
33	Chainlink fencing (Protection to Sircilla RF from Akkapally thanda & Chandanagar) 15KM	15	15	225.000	15		225.000															
				<b>2235.000</b>			<b>250.000</b>			<b>884.000</b>			<b>881.000</b>			<b>115.000</b>			<b>105.000</b>			<b>0.000</b>

1400.00 HA IN RANGE OF Rajanna Sircilla District.

2023 - 24			2024 - 25			2025 - 26			2026 - 27			2027 - 28			2028 - 29			2029 - 30			2030 - 31			2031 - 32			Grand Total	
Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Fin
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
250000	0.00001	2.725																									1750000	104.575
250000	0.00004	10.000	250000	0.000046	11.500																						1750000	54.800
																											10	20.000
																											20	100.000
																											5	25.000
																											5	5.000
																											2	20.000
																											2	20.000
																											500	150.000
																												5.000
																											2	6.000
																												10.000
		12.725			11.500			0.000			0.000			0.000			0.000			0.000			0.000			0.000		520.375
																											25000	500.000
200.00	2.07	413.824																									1400	1979.938
200.00	0.55	110.082	200.00	0.63	126.594																						1400	605.688
200.00	0.27	54.384	200.00	0.31	62.542	200.00	0.36	71.924																			1400	344.116
200.00	0.26	51.884	200.00	0.30	59.668	200.00	0.34	68.618	200.00	0.39	78.910																1400	377.542
200.00	0.26	51.884	200.00	0.30	59.668	200.00	0.34	68.618	200.00	0.39	78.910	200.00	0.45	90.746													1200	434.174
200.00	0.26	51.884	200.00	0.30	59.668	200.00	0.34	68.618	200.00	0.39	78.910	200.00	0.45	90.746	200.00	0.52	104.358										1000	499.300
200.00	0.26	51.884	200.00	0.30	59.668	200.00	0.34	68.618	200.00	0.39	78.910	200.00	0.45	90.746	200.00	0.52	104.358	200.00	0.60	120.012							800	574.196
			200.00	0.30	59.668	200.00	0.34	68.618	200.00	0.39	78.910	200.00	0.45	90.746	200.00	0.52	104.358	200.00	0.60	120.012	200.00	0.69	138.014				600	660.326
						200.000	0.343	68.618	200.00	0.39	78.910	200.00	0.45	90.746	200.00	0.52	104.358	200.00	0.60	120.012	200.00	0.69	138.014	200.00	0.79	158.716	400	759.374
1400.00		785.826	1400.00		487.476	1400.000		483.632	1200.00		473.460			453.730			417.432			360.036			276.028			158.716	400	6734.654
																											1400	77.000
		0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	1400	77.000
																											50	36.813
14		15.750	14		15.750	14		15.750	14		15.750																	141.750
																											500	34.150
		15.750			15.750			15.750			15.750			0.000			0.000			0.000			0.000			0.000		212.713
																											2000	400.000
																											100	1500.000
																											5	25.000
																											5	15.000
																											10	50.000
																											100	20.000
																											15	225.000
		0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000		2235.000

Sl. No	Item of Work	Total Outlay			2017 - 18			2018 - 19			2019 - 20			2020 - 21			2021 - 22			2022 - 23		
		Phy	Unit cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin
VI	<b>SMC Works</b>																					
34	Digging of CPT	150	1.5	270.000				45		67.500	45		67.500	45		67.500	45		67.500			
35	Bund plantation	150	0.2411	36.165				45		10.850	45		10.850	45		10.850	15		3.617			
36	Construction of Percolation Tanks	90	1.00	90.000	10		10.000	10		10.000	10		10.000	10		10.000	10		10.000	10		10.000
37	Construction of Mini Percolation Tanks	90	0.5	45.000	10		5.000	10		5.000	10		5.000	10		5.000	10		5.000	10		5.000
38	Staggered Trenches	3000	0.003	9.000	1000		3.000	1000		3.000	1000		3.000									
39	Rock fill Dams	180	0.5	90.000	45		22.500	45		22.500	45		22.500	45		22.500						
40	Borewells & pipelines	5	5	25.000				3		15.000	2		10.000									
41	Electricity facility(3Phase) for borewells	5	4	20.000				3		12.000	2		8.000									
42	Check Dams	20	5.00	100.000	5		25.000	5		25.000	5		25.000	5		25.000						
43	Supply of Gas sylinder to the Villagers (3 Tribal Villages Nizamabad, Akkapally and Konaraopet Total population 5000 members)	750	0.030	22.500	0		0.000	250		7.500	250		7.500	250		7.500						
	<b>Sub Total</b>			<b>707.665</b>			<b>65.500</b>			<b>178.350</b>			<b>169.350</b>			<b>148.350</b>			<b>86.117</b>			<b>15.000</b>
VII	<b>Administrative Cost</b>																					
44	Conveyance, POL Chatrges, Honaronium to rtd officers, Campaining facilities at Rajanna Sircilla, Construction of Quarters, Computers, Stationary and other expenditure. (I+II+III+IV+V+VI) X 10%			<b>1048.7000</b>			150.00000			150.000			150.000			150			150			150
45	<b>Total year wise outlay of the project</b>			<b>11536.1073</b>			<b>1076.9080</b>			<b>1660.7168</b>			<b>1676.8195</b>			<b>976.7525</b>			<b>1009.5325</b>			<b>958.1170</b>



2023 - 24			2024 - 25			2025 - 26			2026 - 27			2027 - 28			2028 - 29			2029 - 30			2030 - 31			2031 - 32			Grand Total	
Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Fin
																											180	270.000
																											150	36.165
10		10.000	10		10.000	10		10.000																			90	90.000
10		5.000	10		5.000	10		5.000																			90	45.000
																											3000	9.000
																											180	90.000
																											5	25.000
																											5	20.000
																											20	100.000
																											750	22.500
		15.000			15.000			15.000			0.000			0.000			0.000			0.000			0.000			0.000		707.665
		149																										1048.700
		978.0010			529.7260			514.3820			489.2100			453.7300			417.4320			360.0360			276.0280			158.7160		11536.1073

  
 District Forest Officer,  
 Rajanna Sircilla & Karimnagar.

Countersigned  
  
 Chief Conservator of Forests  
 Karimnagar Circle, Karimnagar

  
 District Forest Officer  
 Rajanna Sircilla & Karimnagar

**COMPENSATORY AFFORESTATION PROJECT**


**The proposals for diversion of 3221.297 Ha. forest areas are diverted in (8) different forest divisions of Telangana State in respect of Kaleshwaram Project.**

**Compensatory Afforestation area is 500.920 Ha identified in different locations of Dharmapuri and Kodimal Ranges of Jagtial Disrtict.**

Sl. No.	Component	Quantity	Unit cost in Lakhs	Unit	Fin. In Lakhs	Year																				TOTAL	
						2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		TOTAL	
						Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
<b>I</b>	<b>TRENCH WORKS</b>																										
	Digging of Peripheral trench (7 locations the pheripheral length is 31085 Meters) (21760*3.5 cum per meter = 76160 cum.)	76160	0.00042	Cum.	31.987	20000	8.400	20000	8.400	20000	8.400	16160	6.787		0.000		0.000		0.000		0.000		0.000		0.000	76160	31.987
	Planting to be proposed along the boundary of peripheral trench dugout on the mound.	31085																									
	a). In two rows at 2mts. Apart (0.37 lakh Tall																										
	i) Cost of Plants	37000	0.00075	Nos.	27.750	9600	7.200	9600	7.200	9600	7.200	8200	6.150													37000	27.750
	ii) Miantanance of plants.	37000	0.00015	Nos.	5.550	9600	1.440	9600	1.440	9600	1.440	8200	1.230													37000	5.550
	b). Planting of Agave Suckers on the top of the	50000	0.00010	Nos.	5.000		1.500		1.500		1.000		1.000													0	5.000
	c). Planting of Syzygium cumini, Terminalia arjuna and Acacia nilotica within the trench at 3 Mtrs., apart to improve the stocking and	52000	0.00025	Nos.	13.000	####	3.750	15000	3.750	11000	2.750	11000	2.750													52000	13.000
	d). Dry Stone Wall (8000 Rmt x Height of 1.500 Meters) including Foundation below ground level @ Rs.1500.00 per	8000	0.01500	Rmt.	120.000	1000	15.000	1000	15.000	1000	15.000	1000	15.000	1000	15.000	1000	15.000	1000	15.000	500	7.500	500	7.500	0	0.000	8000	120.000
	<b>Sub Total</b>				203.287		37.290		37.290		35.790		32.917		15.000		15.000		15.000		7.500		7.500		0.000		203.287
<b>II</b>	<b>Plantation Works</b>																										
	<b>A). Soils are Compacted and Shallow</b>																										
	By Importing the Soil (7 Locations each location) Each Tipper load with capacity of 9 Cum with lead of 25 Kms (One pit quanty (0.60x0.60x0.60) - (0.30x0.30x0.30)=0.189 Cum Total 650 Tipper loads required.	650	0.01000	Tipper	6.500	250	2.500	200	2.000	200	2.000															650	6.500
	<b>B). Planting for Open places and in viable gaps of the Local Species.</b>																										
	Open places and in viable gaps - 7 Locations =																										
	i) Cost of Plants (154 Ha., x 240 = 36960+9240 =46200 Plants) or 46500 Plants	46500	0.00075	Nos.	34.875	####	9.000	12000	9.000	12000	9.000	10500	7.875													46500	34.875
	Construction of Over Head Tanks Each Location (2 Nos) (40 KL Capacity)	16	18.00000	No.	288.000	8	144.000	8	144.000																		288.000
	Digging of Bore Wells Each Location (2 Nos) Electrical Charges)	16	0.50000	No.	8.000	8	4.000	8	4.000																		8.000
	<b>Planting</b>																										
	a). Advance Operations	154	0.279	Ha.,	49.411	40	12.834	40	12.834	40	12.834	34	10.909													154	49.411
	b). Raising of Plantation	154	0.084	Ha.,	14.876			40	3.864	40	3.864	40	3.864	34	3.284											154	14.876
	c). 1st Year maintenance	154	0.043	Ha.,	7.615					40	1.978	40	1.978	40	1.978	34	1.681									154	7.615
	d). 2nd Year maintenance	154	0.024	Ha.,	4.250							40	1.104	40	1.104	40	1.104	34	0.938							154	4.250
	e). 3rd Year maintenance	154	0.024	Ha.,	4.250									40	1.104	40	1.104	40	1.104	34	0.938					154	4.250
	f). 4th Year maintenance	154	0.024	Ha.,	4.250											40	1.104	40	1.104	40	1.104	34	0.938			154	4.250
	g). 5th Year maintenance	154	0.024	Ha.,	4.250													40	1.104	40	1.104	40	1.104	34	0.938	154	4.250
	<b>C). Raising of Fodder Plots @ 2 Ha., each (7 Locations = 2x7 = 14Ha., @ Rs.50000/- = Rs.700000/-)</b>	14	0.500	Ha.,	7.000			4	2.000	4	2.000	4	2.000	2	1.000											14	7.000



	D). Saucer Pits. (7 Locations = 2x7 = 14Ha., @ Rs.35000/- = Rs.490000/-)	14	0.350	Nos.	4.900			4	1.400	4	1.400	4	1.400	2	0.700										14	4.900	
	E). Chain Link Fencing. (10000 Rmt @ 500/-Rmt= Rs. 5.00 Lakhs	10000	0.001	Nos.	5.000			500	2.500	500	2.500													1000	5.000		
	F). Tending of Existing crops of the Speices proposed CA Area																										
	Singiling and Coppicing (Total CA Area is 500.920Ha., out of which 250 Ha., is proposed for the Singiling and Coppicnig) (Rs.5487/Ha.,	248	0.05487	Ha.,	13.608	28	1.536	28	1.536	28	1.536	28	1.536	28	1.536	28	1.536	28	1.536	28	1.536	14	0.768	10	0.549	248	13.608
	G). Watch and Ward																										
	7 locations each location of 2 Nos @ Rs.7500/- per month x 12months = Rs.90000/No./year.(14 Nosx 0.90 x10 )	14	9.00000	7 Locations	126.000	14	12.600	14	12.600	14	12.600	14	12.600	14	12.600	14	12.600	14	12.600	14	12.600	14	12.600	14	12.600	140	126.000
	Sub Total				582.787		186.470		195.734		49.712		43.266		23.307		19.130		18.387		17.283		15.411		14.087		582.787
III	SOIL AND MOISTURE CONSERVATION WORKS																										
1	Construction of Percolation Tanks	46	0.75000	1 Nos.	34.500			5	3.750	5	3.750	5	3.750	5	3.750	5	3.750	10	7.500	11	8.250					46	34.500
2	Construction of Mini Percolation Tanks	28	0.50000	1 Nos.	14.000			3	1.500	3	1.500	4	2.000	4	2.000	3	1.500	3	1.500	3	1.500	3	1.500	2	1.000	28	14.000
3	Staggered Trenches	845	0.05000	Cum	42.250			100	5.000	100	5.000	100	5.000	100	5.000	100	5.000	100	5.000	100	5.000	100	5.000	45	2.250	845	42.250
4	Rock fill Dams	45	1.50000	1 Nos.	67.500			10	15.000	10	15.000	10	15.000	10	15.000	5	7.500								45	67.500	
5	Check Walls	30	2.00000	1 Nos.	60.000			5	10.000	5	10.000	5	10.000	5	10.000	5	10.000	5	10.000							30	60.000
6	Check Dams	25	5.00000	1 Nos.	125.000			3	15.000	3	15.000	3	15.000	3	15.000	3	15.000	3	15.000	3	15.000	2	10.000	2	10.000	25	125.000
7	Construction of Wall to arrest the Fire occurance (0.60 Mtrs., 0.30 Mtrs., 1.20 m	10000	0.01000	Cum	100.000	1000	10.000	1000	10.000	1000	10.000	1000	10.000	1000	10.000	1000	10.000	1000	10.000	1000	10.000	1000	10.000	1000	10.000	10000	100.000
	Sub Total				443.250		10.000		60.250		60.250		60.750		60.750		52.750		49.000		39.750		26.500		23.250		443.250
IV	ADMINISTRATIVE COST																										
1	Overheads (10%)																										
a	Conveyance to Forest Section Officer/Forest Beat Officer for work supervision @ 12,000/month Total 2 Foresters	6	1.44000	Nos.	8.640		3.000		3.000		2.640														0	8.640	
	Conveyance to Forest Range Officer/Divisional Forest Officer for work supervision @ 17,000/month Total 4 Foresters	3	2.04000	Nos.	6.120		1.000		1.000		1.000		1.000		1.000		1.000		0.120						0	6.120	
	Camaping facility at Dharmapuri																								0		
	Improving facilities at Ranges																								0		
b	Technical Assistant @ Rs. 15000/month	2	1.80000	Nos.	3.600		1.000		1.000		1.000		0.600												0	3.600	
c	Computer operator @ Rs. 15000/month	2	1.80000	Nos.	3.600		1.000		1.000		1.000		0.600												0	3.600	
d	Stationary and computer pheripals	3	1.00000	LS	3.000		1.000		1.000		1.000														0	3.000	
e	Vehicle hiring charges / Purchase	3	3.00000	Nos.	9.000		3.000		3.000		3.000														0	9.000	
f	Propulsion charges	3	0.50000	LS	1.500				0.500		0.500		0.500												0	1.500	
	Sub Total				35.460		10.000		10.500		10.140		2.700		1.000		1.000		0.120		0.000		0.000		0.000		35.460
	Grand Total				1264.784		243.760		303.774		155.892		139.633		100.057		87.880		82.507		64.533		49.411		37.337		1264.784

  
 Chief Conservator of Forests  
 Karimnagar Circle, Karimnagar

//t.c.b.o.//

Superintendent

  
 District Forest Officer,  
 JAGTIAL.

**Estimate for Advance Operations of plantation at compensatory afforestation schemes**

Non-Forest land is identified to an extent of 500.92 Ha., in different locations of Dharmapuri and Kodimial Ranges

Area: in Ha

1

No. of Plants:


350

Range : Dharmapuri

District: Jagtial

Year: 2016-17

Sl No	Item of work	FSR Code	Qty	Rate in Rs.	Unit	Amount in Rs.
1	2	3	4	5	6	7
	<b>LABOUR INTENSIVE METHOD (LI METHOD)</b>	<b>02.01.</b>				
	<b>ADVANCE OPERATION (PRE-PLANTING OPERATION) - All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitability and the category of jungle growth clearance, taking the images of the existing vegetation, preparation of treatment plan shall be prepared and approved in writing by DFO before taking up advance operation.</b>					
1	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform latest by December end. (8 Plantation Locations)	02.01.01	8	311.04	Plantation	2488
2	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. All the above operations should be completed before December.					
	Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	02.01.03	54	2598.59	Ha	140324
	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	02.01.04	100	5207.65	Ha	520765
3	Formation of Sector Lines / Fire Lines to a width of 3 m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level. This operation is applicable for plantations other than Semi-Mechanical Plantation.	02.01.05	60000	5.08	Rmt	304800
4	<b>ALIGNMENT &amp; STACKING INCLUDING DEMARCATION OF BASE LINE</b>					
	iv) 5X5 m espacement = 400 planting points Gap Planting @ 300 Plants	02.01.08	30800	98.77	100 no.	30420
	Cost of preparation of stakes (0.45 m length) and transportation to site	02.01.09	30800	47.30	100 no.	14568
5	Digging of Pits - Manual (As per RSSR): All efforts shall be made to complete pitting works before March-end. Under exceptional circumstances (if the target of plantation is given in the month of March-April), the pitting can be done during June and July. But any pitting done during June-July, plants can only be planted after the pits are verified by field inspections of FROs and DFOs of proper dimensions to avoid simultaneous pitting and planting which may result in higher percentage of casualties.					
	b) Hard Soil like gravel and morum					
	ii) 45 cm <sup>3</sup> pits	02.01.13	30800	21.23	per pit	653884
6	Digging of Staggered Contour Trenches (SCTs) for impounding rain water - Manual - Size: 6m Length, 0.45 m top-width, 0.30 m bottom-width and 0.45 m depth; earthwork volume per trench: 1.012 cum - Max. of 50 no. per ha. If they are made with machine, the works can be done by calling for tender. However, if they are intended to be done through machine, it has to be informed in advance. All the SCTs shall be completed before January.					
	from January - March					
	i.) Hard soils like gravel and morum	02.01.19	8000	272.71	per cum	2181680
	<b>Total 138 Ha. Advance Operation</b>					<b>3848929</b>
	<b>1.00 Ha. Advance Operation</b>					<b>27891</b>
	<b>Or, 1.00 Ha. Advance Operation</b>					<b>27900</b>

  
 District Forest Officer,  
 Jagtial.

**Estimate for raising of plantation at compensatory afforestation schemes**

Area: in Ha

1

No. of Plants:

200

Range : Dharmapuri

District: Jagtial

Year: 2016-17

SI No	Item of work	FSR Code	Qty	Rate in Rs.		Amount in Rs.
1	2	3	4	5	6	7
	<b>LABOUR INTENSIVE METHOD (LI METHOD)</b>	<b>02.01.</b>				
	<b>PLANTING OPERATIONS DURING RAISING YEAR</b>	<b>02.02.</b>				
	Transportation of Planting Stock (including loading and unloading)					
	From nursery to plantation site - upto 5 Km lead					
	20 X 30 cm (8"X12") bag plants (Including Replacement of Casualties)	02.02.03	36960	173.49	100 nos	64122
	From nursery to plantation site - Beyond 5 Km lead					
	i) For every extra km beyond 5 km upto 25 km					
	20 X 30 cm (8"X12") bag plants (20*6.75=135.00) (Including Replacement of Casualties)	02.02.06	36960	135.00	100 nos / km	49896
	Internal transportation to planting points on head loads					
	20 X 30 cm (8"X12") bag plants (Including Replacement of Casualties)	02.02.12	36960	117.94	100 Nos	43591
	<i>PLANTING: Seedlings of local species of secondary hardwood along with their associates and NTFP species will have to be chosen for planting. The minimum height of the planting stock to be planted is 0.75 m - 1m height (excluding the height of the bag)</i>					
	Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. Similarly, the bag plants to be planted are to be dipped inside Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	02.02.13	30800	32.62	100 No.	10047
	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos	02.02.14	30800	As per Actual		10000
	<b>Planting</b>					
	ii) 45 cm <sup>3</sup>	02.02.16	30800	363.37	100 No.	111917
	<b>Replacement of Casualties</b>					
	Replacement of Casualties: 20% during Raising Year & 25% in 1 <sup>st</sup> year The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.	02.02.17	6160	181.68	50% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal	11192
	<b>Application of Fertilizers</b>					
	Cost of DAP @ 25 gm / planting point	02.02.18		As per Actual		8000
	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	02.02.19	30800	32.62	100	10047
	<b>WEEDING &amp; SOIL WORKING</b>					
	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	02.02.20	30800	103.79	100	31967
	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant 90 days after planting (i.e. Sept - Oct)	02.02.21	30800	103.79	100	31967
	c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
	ii) For hard gravelly soil	02.02.23	30800	545.08	100	167885
	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad (C. & L.))	02.02.25	154	1215.43	ha	187176
	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	02.02.26	30800	103.194	100 Nos	31784



Sl No	Item of work	FSR Code	Qty	Rate in Rs.	*	Amount in Rs.
	Brush-wood Fencing around the Plantation area: <b>Thorny fencing</b> with sturdy thorn material of 10 cm. girth (at the butt end) and fixing in crow bar holes and strengthening with stone packing. The average height of fence should be 1.5 m and fencing material should be fixed in 2 rows (staggered) at 60 cm. apart. The fence should be tightened horizontally by tying with thorny reepers on both sides (as per RSSR)	02.02.27	20000	24.12	Rmt	482400
	Enumeration of row-wise survival and average growth twice in the raising year - Number of plants planted and Number surviving (to be undertaken during October and March) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indigenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with minimum average height of 1.25 - 1.50 m at the end of the raising year.	02.02.28		To be done by the staff (plantation-in-charge) with the help of Plantation Watcher		0
	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped and site is not affected with fire. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	02.02.29	Watch & ward shown in Separately.	7500	per month per watcher	0
	Misc. Expenditure					28009
	Total 154Ha. Raising of Plantation					1280000
	Total 154 Ha. Raising of Plantation					8312
	1.00 Ha. Raising of Plantation					8350

  
 District Forest Officer,  
 Jagtial.

**Estimate for 1ST YEAR MAINTAINANC of plantation at compensatory afforestation schemes**

Area: in Ha

154

No. of Plants:

200

Range : Dharmapuri

District: Jagtial

**Year: 2016-17**

SI No	Item of work	FSR Code	Qty	Rate in Rs.	Unit	Amount in Rs.
1	2	3	4	5	6	7
	<b>1<sup>ST</sup> YEAR MAINTAINANCE</b>	<b>02.03.</b>				
	<b>Replacement of Casualties: 25% in 1st year</b> (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July.	<b>02.03.01</b>	7700		Pitting, planting, transportation and internal transportation same as prescribed in fresh planting	
	<i>b) Hard Soil like gravel and moram</i>					
	ii) 45 cm <sup>3</sup> pits	02.01.13	7700	21.23	per pit	163471
	From nursery to plantation site - upto 5 Km lead					
	20 X 30 cm (8"X12") bag plants	02.02.03	7700	173.49	100 nos	13359
	From nursery to plantation site - Beyond 5 Km lead					
	20 X 30 cm (8"X12") bag plants (20*6.75=135.00)	02.02.06	7700	135.00	100 nos / km	10395
	<b>Planting</b>					
	ii) 45 cm <sup>3</sup>	02.02.16	7700	363.37	100 No.	27979
	<b>WEEDING &amp; SOIL WORKING (To be carried out after replacement of casualties are over)</b>					
	a) 1 <sup>st</sup> Circular weeding to a radius of 0.50 m around the plant during July - Aug	02.03.02	30800	103.79	100	31967
	b) 2 <sup>nd</sup> Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	02.03.03	30800	103.79	100	31967
	c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
	i) For ordinary soil	02.03.04	30800	363.366	100	111917
	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	02.03.07	154	1215.43	ha	187176
	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October.	02.03.08	30800	103.194	100 Nos	31784
	Enumeration of row-wise survival and average growth thrice in 1 <sup>st</sup> Maintenance year - Number of plants planted and number surviving (to be undertaken during June, Oct. and Jan.) to be ascertained and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indigenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with minimum average height of 1.75 - 2 m at the end of 1st year maintenance.	02.03.09	30800		To be done by the staff (plantation-in-charge) with the help of Plantation Watcher	0
	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped and site is not affected with fire. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintenance period.	02.03.10	Watch & ward shown in Separately	7500	per month per watcher	0
	<b>Misc. Expenditure</b>					50085
	<b>Total 154Ha. Raising of Plantation</b>					660100
	<b>Total 154 Ha. Raising of Plantation</b>					4286
	<b>1.00 Ha. Raising of Plantation</b>					4300

District Forest Officer,  
Jagtial

Estimate for 2nd YEAR MAINTAINANCE of plantation at compensatory afforestation schemes

Area: in Ha 154

No. of Plants: 200

Range : Dharmapuri

District: Jagtial

Year: 2016-17

Sl No	Item of work	FSR Code	Qty	Rate in Rs.	Unit	Amount in Rs.
1	2	3	4	5	6	7
	<b>SECOND YEAR MAINTAINANCE</b>	<b>02.04.</b>				
	<b>WEEDING &amp; SOIL WORKING</b>					
	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	02.04.01	30800	103.79	100	31967
	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept. - Oct.	02.04.02	30800	103.79	100	31967
	c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant during Nov. - Dec.					
	i) For ordinary soil	02.04.03	30800	363.366	100	111917
	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	02.04.06	154	1215.43	ha	187176
	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan. ) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indigenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m. it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	02.04.07	154		To be done by the staff (plantation-in-charge) with the help of Plantation	0
	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance period.	02.04.08		7500	per month per watcher	0
	Misc. Expenditure					3073
	Total 154Ha. Raising of Plantation					366100
	Total 154 Ha. Raising of Plantation					2377
	1.00 Ha. Raising of Plantation					2400

District Forest Officer  
Jagtial



Estimate for 2nd YEAR MAINTAINANC of plantation at compensatory afforestation schemes

Area: in Ha

154

No.of Plants:

200

Range : Dharmapuri

District: Jagtial

Year: 2016-17

Sl No	Item of work	FSR Code	Qty	Rate in Rs.	Unit	Amount in Rs.
1.	2	3	4	5	6	7
	<b>THIRD YEAR MAINTAINANCE</b>	<b>02.04.</b>				
	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	02.04.06	154	1215.43	ha	187176
	Misc. Expenditure					3073
	Total 154Ha. Raising of Plantation					190249
	Total 154 Ha. Raising of Plantation					1235
	1.00 Ha. Raising of Plantation					2400

District Forest Officer,  
Jagtial.

Estimate for 2nd YEAR MAINTAINANC of plantation at compensatory afforestation schemes

Area: in Ha 154

No.of Plants: 200

Range : Dharmapuri

District: Jagtial

Year: 2016-17

Sl No	Item of work	FSR Code	Qty	Rate in Rs.	Unit	Amount in Rs.
1	2	3	4	5	6	7
	<b>THIRD YEAR MAINTAINANCE</b>	<b>02.04.</b>				
	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	02.04.06	154	1215.43	ha	187176
	Misc. Expenditure					3073
	<b>Total 154Ha. Raising of Plantation</b>					<b>190249</b>
	<b>Total 154 Ha. Raising of Plantation</b>					<b>1235</b>
	<b>1.00 Ha. Raising of Plantation</b>					<b>2400</b>

  
District Forest Officer,  
Jagtial.

Estimate for 2nd YEAR MAINTAINANC of plantation at compensatory afforestation schemes

Area: 154 in Ha

No. of Plants: 200

District: Jagtial

Range : Dharmapuri

Year: 2016-17

Sl No	Item of work	FSR Code	Qty	Rate in Rs.	Unit	Amount in Rs.
1	2	02.04.	4	5	6	7
	<b>THIRD YEAR MAINTAINANCE</b>					
	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	02.04.06	154	1215.43	ha	187176
	Misc. Expenditure					3073
	Total 154Ha. Raising of Plantation					190249
	Total 154 Ha. Raising of Plantation					1235
	1.00 Ha. Raising of Plantation					2400

District Forest Officer,  
Jagtial.