

**COMPREHENSIVE SCHEME
COMPENSATORY AFFORESTATION**

**CONSTRUCTION OF CANAL, TUNNELS, LIFT SYSTEM AND
RESERVOIRS INVOLVING IN KALESHWARAM PROJECT**

**TO BE RAISED IN
PEDDAPALLY AND MANTHANI RANGES**

OF

PEDDAPALLY DIVISION

KARIMNAGAR CIRCLE

DISTRICT PEDDAPALLY

TELANGANA STATE

COMPREHENSIVE SCHEME FOR COMPENSATORY AFFORESTATION SCHEME FOR PEDDAPALLY DISTRICT OF KARIMNAGAR CIRCLE: DIVERSION OF 3221.2971 Ha OF FOREST LAND IN 8 DIFFERENT DIVISIONS VIZ MAHADEVPUR, KARIMNAGAR-SIRCILLA, SIDDIPET, YADADRI, MEDAK, NIZAMABAD, BANSWADA AND NIRMAL DIVISIONS FOR CONSTRUCTION OF CANAL, TUNNELS, LIFT SYSTEM AND RESERVOIRS INVOLVING IN KALESHWARAM PROJECT IN DIFFERENT DISTRICTS OF TELANGANA STATE

1) INTRODUCTION OF THE SCHEME:-

The Chief Engineer, Kaleshwaram Project, Hyderabad has submitted proposals for CA which is identified in Peddapally District for their composite Construction of Canal, Tunnels, Lift System and Reservoirs in Peddapally District of Karimnagar Circle.

The details of Sy.No wise as follows:-

Sl. No	Village	Mandal	Sy.No	Extent of land available for CA (in Ha)
1	Dongathurthy	Dharmaram	61	34.2700
2	Dongathurthy	Dharmaram	294	69.1900
3	Kummarikunta	Julapally	225	58.0900
4	Maredupally	Palakurthy	309	41.7000
5	Munjampally	Palakurthy	88	15.2000
6	Kanagarthy	Peddapally	354	63.9617
7	Kanagarthy	Peddapally	354	4.5692
8	Maredugonda	Peddapally	446	21.1266
9	Maredugonda	Peddapally	307	71.1626
10	Maredugonda	Peddapally	429	74.0259
	TOTAL			453.2955

The above mentioned Govt. Non-forest land is identified by the Officials of Chief Engineer, Kaleshwaram Project, Hyderabad and Forest Department. The CA land 453.2955 Ha has been identified in the above mentioned area. The area is completely hilly and rocky, but having stunted forest growth equivalent to adjacent to forest land. The growth consists mainly of Narlinga, Cassia fistula, Moduga, Vepa, Pala, Tangedu, Danthe, Namalinara, Tuniki, Ippa, NallaKodisha, Palakodisha etc.,.

2). SUITABILITY OF THE AREA:-

The area of 453.2955 Ha of Non-forest land handed over for CA purpose. The total land is hilly, Rocky areas, hence the AR planting activities cannot be taken up except Digging of CPCT works, SMC works, Bund planting and Gap Planting in some patches.

3). SCHEME IMPLEMENTATION AGENCY:-

The District Forest Officer, Peddapally will be the project implementation and Monitoring agency and works will be taken up through concerned Forest range Officers.

For successful implementation above mentioned works frequent inspections and close monitoring is required by the Forest Range Officers and Superior Officers.

4). MONITORING MECHANISM:-

The District Forest Officer, Peddapally and Chief Conservator of Forests, Karimnagar Circle, Karimnagar will closely monitor the implementation of CA scheme by regular inspections and ensuing maintenance of connected records like Nursery journals, plantation journal, cash books, Work register, measurement Books etc.. Monthly progress of planting and maintenance along with expenditure will be submitted to the Prl.CCF, TS,Hyd and other Senior Officers of Forest Department Telangana and Chief Conservator of Forests (Central) Bangalore will also be monitoring the implementation of CA scheme.

5). PERIOD OF THE SCHEME:-

Period of the scheme is for (10 years) which includes advance works and raising of plantations and 8 years maintenance commencing from 2017-18 to 2026-27.

The details of proposed works are given below

6). **BOUNDARY DEMARCATION:** As a part of protection of the CA land following activities are proposed.

- a. **BOUNDARY TRENCH:** : In order to reduce biotic interference and to increase the protection of the forests, RF boundary trench (Top width:2M, Bottom width 1.50M, Depth:2M) is proposed for a total length of 20.00 Kms
- b. **BOUNDARY PILLARS:** RCC boundary pillars are proposed to demarcate between the forest and non-forest land
- c. **Fencing/Compound wall:** Where ever boundary trench is not possible chainlink or barbed wire fencing/compound wall with a gate is proposed

7). **FOREST PROTECTION:**

- 1) Erection of watch tower
- 2) Protection Quarters for front line staff
- 3) Watch and ward (Protection watcher).

8.) **PUBLICITY AWARENESS GENERATION AND ENTRY POINT ACTIVITIES:**

- 1) Publicity boards for awareness on forest and environment for the general public in Division
- 2) Awareness Generation program for the Public like organizing of seminars/workshop, Kalajatha programme, Posters etc.,
- 3) Entry point activities like trainings and capacity building programmes proposed in adjoining villages to reduce biotic interference and Forest Fire tracing.
- 4) Study tours for frontline staff

9. **ADMINISTRATION MONITORING AND A INFRASTRUCTURE COST:-**

- 1) Purchase of GPS, Computers and other equipments etc.
- 2) Purchase of fire fighting equipment
- 3) Remuneration for computer Assistant/for monitoring and Maintenance of records.
- 4) Monitoring evaluation and administration cost
- 5) Purchase of vehicles (2 Innova and 1 Bolero) for the supervision, monitoring and evaluation of the scheme by Forest Officers at Division and Circle level.

The details of proposed works are given below

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10.) **NURSERY INFRASTRUCTURE IN THE PROPOSED AREA THE FOLLOIWNNG ARE PROPOSED:-**

- 1) Seed storage Room
- 2) Electricity and water cost such as Drilling of borewell and fixing of pump etc.,
- 3) Raising of nurseries
- 4) Maintenance of nurseries.
- 5) Protection of nursery site by chainlink fencing.

11.) **REJUVENATION OF ADDITIONAL CA AREA EQUIVALENT TO FOREST AREA DIVERTED:-**

The Government non-forest land of 453.2955 Ha., which is identified for CA by the User Agency in Peddapally Division in lieu of their Construction of Canal, Tunnels, Lift System and Reservoirs total CA land is completely Hilly and Rocky. Hence planting activities cannot be takenup. Therefore it is decided to identify equivalent Addl. C.A. area in Degraded forest in Peddapally and Manthani Range of Peddapally Division to take up the plantation works the details are as follows.

- 1) Advance operations
- 2) Raising year
- 3) 1st to 8th year maintenance and all activities as proposed in the area
- 4) Nursery

Cost of the scheme is worked out by adopting present FSR of 2016-17. The total year wise cost, structure of the project to an extent of 453.2955 Ha is shown in Annexures. The details of requirement of funds and year wise action Plan and area shown in Annexures. Unit Cost of planting techniques is worked out on the basis of FSR 2016-17 and detailed scheme is prepared for an amount of Rs.2770.206 lakhs.




District Forest Officer,
Peddapally.

ABSTRACT

COMPREHENSIVE SCHEME FOR COMPENSATORY AFFORESTATION SCHEME FOR PEDDAPALLY DISTRICT OF KARIMNAGAR
CIRCLE: DIVERSION OF 3221.2971 Ha OF FOREST LAND IN 8 DIFFERENT DIVISIONS VIZ MAHADEVPUR, KARIMNAGAR-SIRCILLA,
SIDDIPET, YADADRI, MEDAK, NIZAMABAD, BANSWADA AND NIRMAL DIVISIONS FOR CONSTRUCTION OF CANAL, TUNNELS, LIFT
SYSTEM AND RESERVOIRS INVOLVING IN KALESHWARAM PROJECT IN DIFFERENT DISTRICTS OF TELANGANA STATE

Sl. No.	Item of works	Total outlay	
		Phy.	Fin. In lakhs
I	PROTECTION OF CA LAND		
1	Nursery	1,10,000 Nos	65.600
2	Gap Planting		
	Advance Operations	396.396 Ha	19.622
	Raising of Plantation	396.396 Ha	122.883
	1 st year Maintenance of Plantation	396.396 Ha	41.622
	2 nd year Maintenance of Plantation	396.396 Ha	40.829
	3 rd year Maintenance of Plantation	396.396 Ha	44.793
	4 th year Maintenance of Plantation	396.396 Ha	49.153
	5 th year Maintenance of Plantation	396.396 Ha	54.306
	6 th year Maintenance of Plantation	396.396 Ha	59.459
	7 th year Maintenance of Plantation	396.396 Ha	65.802
	8 th year Maintenance of Plantation	396.396 Ha	72.144
3	Bund planting with Pongamia and Gacchakaya seed		
	Raising of Plantation	20.00 Kms	2.800
	1 st year Maintenance of Plantation	20.00 Kms	0.800
	2 nd year Maintenance of Plantation	20.00 Kms	0.880
	3 rd year Maintenance of Plantation	20.00 Kms	0.980
	4 th year Maintenance of Plantation	20.00 Kms	1.080
	5 th year Maintenance of Plantation	20.00 Kms	1.180
4	Protection of watcher for natural plants around the hillocks	10.00 Nos	141.187
5	SMC works		
	Staggered Trenches	324.00 Cum	0.786
	CPCT Works	70000 Cum	29.680
6	Construction of Checkdams	5.00 Nos	28.00
7	Overhead Misc Exp (10%)		84.358
7	Publicity Awareness generation and Entrypoint Activities	Ls	40.000
8	Administration and Infrastructure and Monitoring cost	Ls	70.000
9	Boundary Demarcation in the proposed area	Ls	30.000
10	Forest Protection	Ls	30.000
	SUB TOTAL-I		1097.944
II	RAISING OF PLANTATION IN DEGRADED AREA		
1	Nursery	6,05,000 Nos	187.550
2	Advance Operations	453.2955 Ha	114.684
3	Raising of Plantation	453.2955 Ha	258.378
4	1 st year Maintenance of Plantation	453.2955 Ha	139.162
5	2 nd year Maintenance of Plantation	453.2955 Ha	86.579
6	3 rd year Maintenance of Plantation	453.2955 Ha	95.192
7	4 th year Maintenance of Plantation	453.2955 Ha	104.711
8	5 th year Maintenance of Plantation	453.2955 Ha	115.137
9	6 th year Maintenance of Plantation	453.2955 Ha	126.469
10	7 th year Maintenance of Plantation	453.2955 Ha	139.162
11	8 th year Maintenance of Plantation	453.2955 Ha	153.214
12	Overhead Misc Exp (10%)		152.024
	SUB TOTAL-II		1672.263
	GRAND TOTAL		2770.206


District Forest Officer,
Peddapally

SCHEME PROPOSALS FOR RAISING OF COMPENSATORY AFFORESTATION SCHEME FOR PEDDAPALLY DISTRICT OF KARIMNAGAR CIRCLE:
DIVERSION OF 3221.2971 Ha OF FOREST LAND IN 8 DIFFERENT DIVISIONS VIZ MAHADEVPUR, KARIMNAGAR-SIRCILLA, SIDDIPET, YADADRI, MEDAK, NIZAMABAD, BANSWADA AND NIRMAL DIVISIONS FOR CONSTRUCTION OF CANAL, TUNNELS, LIFT SYSTEM AND RESERVOIRS INVOLVING IN KALESHWARAM PROJECT IN DIFFERENT DISTRICTS OF TELANGANA STATE

Sl. No	Item of work	2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			2023-24			2024-25			2025-26			Area in Ha & Fin in lakhs			
		Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	2026-27	Grand total (Rs in lakhs)		
PROTECTION OF CA LAND																																
I	Nurseries																															
1	Infrastructure for developing the nursery			31.500																												
2	Raising (34.27+69.19+58.09+63.9612+4.5692+21.1266+71.1626+74.0259= 396.396 Ha	110000	24.00	26.400																										31.500		
3	Maintenance				110000	7.00	7.700																							26.400		
	SUB-TOTAL			57.900			7.700			0			0			0			0			0			0			0				
	Raising of Plantation						7.700			0			0			0			0			0			0			0		7.700		
II	Kummarikunta Village																												0	65.600		
1	Raising of Gap planting (58.09 Ha)																															
	Advance Operation	58.09	4950	2.875																												
	Raising of Plantation				58.09	31000	18.008																									
	1st Year Maint.of Plantation							58.09	10500	6.099																				2.875		
	2nd Year Maint.of Plantation										58.09	10300	5.983																	6.099		
	3rd Year Maint.of Plantation													58.09	11300	6.564														5.983		
	4th Year Maint.of Plantation																58.09	12400	7.203											6.564		
	5th Year Maint.of Plantation																		58.09	13700	7.958									7.203		
	6th Year Maint.of Plantation																			58.09	15000	8.714								7.958		
	7th Year Maint.of Plantation																				58.09	16000	9.643							8.714		
	8th Year Maint.of Plantation																					58.09	17600	10.572						9.643		
2	Digging of CPCT work (3.00 Kms) Trench Size Top Width 2.00 M, Bottom Width 1.50 M, Depth:2.00 M (Unit Cum)	10500	42.400	4.452																										4.452		
3	Construction of Checkdam	1	500000	5.000																												
4	Raising of Bund planting with Pongamia and Dibbling of Gacchakaya seed																													5.000		
	Raising of Plantation				3.00	14000	0.420																									
	1st Year Maint of Plantation							3.00	4000	0.120																				0.420		
	2nd Year Maint of Plantation										3.00	4400	0.132																	0.120		
	3rd Year Maint.of Plantation													3.00	4900	0.147														0.132		
	4th Year Maint.of Plantation																3.00	5400	0.162											0.147		
	5th Year Maint of Plantation																		3.00	5900	0.177									0.162		
4	Digging of Staggered Trenches (Trench size 6.00 M x 0.30M x 0.45 M) (100 Nos x6x0.3x0.45=81 Cum	81.00	242.48	0.196																3.00	5900	0.177								0.177		
5	Protection of watcher for natural plants around the hillock (2 Watchers) for 12 Months	2x9 M	7500	1.350	2x12 M	8250	1.980	2x12 M	9075	2.178	2x12 M	9983	2.396	2x12 M	10981	2.635	2x12 M	12079	2.899	2x12 M	13287	3.189	2x12 M	14615	3.508	2x12 M	16077	3.858	2x12 M	17685	4.244	28.237
	SUB-TOTAL			13.874			20.408			8.397			8.511			9.347			10.264			11.324			12.221			13.501		14.817	122.664	

Sl. No	Item of work	2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			2023-24			2024-25			2025-26			2026-27			Grand total (Rs in lakhs)
		Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs				
III	Dongathurthy Village																															
1	Raising of Gap planting (34.27 Ha + 69.19 Ha = 103.46 Ha)																															
	Advance Operation	103.46	4950	5.121																									5.121			
	Raising of Plantation				103.46	31000	32.073																						32.073			
	1st Year Maint.of Plantation							103.46	10500	10.863																			10.863			
	2nd Year Maaint.of Plantation							103.46	10300	10.656																			10.656			
	3rd Year Maint.of Plantation												103.46	11300	11.691														11.691			
	4th Year Maint.of Plantation															103.46	12400	12.829											12.829			
	5th Year Maint.of Plantation																		103.46	13700	14.174								14.174			
	6th Year Maint.of Plantation																				103.46	15000	15.519						15.519			
	7th Year Maint.of Plantation																						103.46	16600	17.174				17.174			
	8th Year Maaint.of Plantation																							103.46	18200	18.830			18.830			
2	Digging of CPCT work (6.00 Kms) Trench Size Top Width 2.00 M, Bottom Width 1.50 M, Depth:2.00 M (Unit Cum)	21000	42.4	8.904																									8.904			
3	Construction of Checkdam	1	300000	5.000																									5.000			
4	Raising of Bund planting with Pongamia and Dibbling of Gacchakaya seed																												0.000			
	Raising of Plantation				6.00	14000	0.840																						0.840			
1	1st Year Maint.of Plantation							6.00	4000	0.240																			0.240			
	2nd Year Maint.of Plantation										6.00	4400	0.264																0.264			
1	3rd Year Maint.of Plantation												6.00	4900	0.294														0.294			
	4th Year Maint.of Plantation															6.00	5400	0.324											0.324			
	5th Year Maint.of Plantation																	6.00	5900	0.354									0.354			
5	Protection of watcher for natural plants around the hillock (1 Watcher) for 12 Months	1x9 M	7500	0.675	1x12 M	8250	0.990	1x12 M	9075	1.089	1x12 M	9983	1.198	1x12 M	10981	1.318	1x12 M	12079	1.449	1x12 M	13287	1.594	1x12 M	14615	1.754	1x12 M	16077	1.929	1x12 M	17685	2.122	14.119
	SUB-TOTAL			19.700			33.903					12.192			13.303			14.602			16.122			17.273			19.104		20.952	179.269		
IV	Maredupally Village (41.70 Ha)																															
1	Digging of CPCT work (2.00 Kms) Trench Size Top Width 2.00 M, Bottom Width 1.50 M, Depth:2.00 M (Unit Cum)	7000	42.400	2.968			0			0			0					0											2.968			
2	Construction of Checkdam	1	300000	3.000																									3.000			
3	Raising of Bund planting with Pongamia and Dibbling of Gacchakaya seed																															
	Raising of Plantation				2.00	14000	0.280																						0.280			
	1st Year Maint.of Plantation							2.00	4000	0.080																			0.080			
	2nd Year Maint.of Plantation										2.00	4400	0.088																0.088			
	3rd Year Maint.of Plantation												2.00	4900	0.098														0.098			
	4th Year Maint.of Plantation															2.00	5400	0.108											0.108			

[illegible]

Sl. No	Item of work	2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			2023-24			2024-25			2025-26			2026-27			Grand total (Rs in lakhs)
		Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs	Qty	Rate	Amount in lakhs				
	2nd Year Maint.of Plantation										3.00	4400	0.132																		0.132	
	3rd Year Maint.of Plantation													3.00	4900	0.147															0.147	
	4th Year Maint.of Plantation																3.00	5400	0.162												0.162	
	5th Year Maint.of Plantation																		3.00	5900	0.177										0.177	
4	Digging of Staggered Trenches (Trench size 6.00 M x 0.30M x 0.45 M) (100 Nos x6x0.3x0.45=81 Cum	81.00	242.48	0.196																3.00	5900	0.177									0.196	
5	Protection of watcher for natural plants around the hillock (2 Watchers) for 12 Months	2x9 M	7500	1.350	2x12 M	8250	1.980	2x12 M	9075	2.178	2x12 M	9983	2.396	2x12 M	10981	2.635	2x12 M	12079	2.899	2x12 M	13287	3.189	2x12 M	14615	3.508	2x12 M	16077	3.858	2x12 M	17685	4.244	28.237
	SUB-TOTAL			14.391			23.645			9.494			9.586			10.526			11.559			12.755			13.787			15.235			16.717	137.694
VII	Maredugonda Village																															
1	Raising of Gap planting (21.1266+71.1626+74.0259=166.3151 Ha)																															
	Advance Operation	166.3151	4950	8.233																												
	Raising of Plantation				166.3151	31000	51.558																									8.233
	1st Year Maint.of Plantation							166.3151	10500	17.463																						51.558
	2nd Year Maint.of Plantation										166.3151	10300	17.130																			17.463
	3rd Year Maint.of Plantation													166.3151	11300	18.794																17.130
	4th Year Maint.of Plantation																166.3151	12400	20.623													18.794
1	5th Year Maint.of Plantation																			166.3151	13700	22.785										20.623
2	6th Year Maint.of Plantation																					166.3151	13700	22.785								22.785
1	7th Year Maint.Of Plantation																					166.3151	15000	24.947								24.947
	8th Year Maint.of Plantation																								166.3151	16600	27.608					27.608
2	Digging of CPCT work (5.00 Kms) Trench Size Top Width 2.00 M, Bottom Width 1.50 M, Depth:2.00 M (Unit Cum)	17500	42.400	7.420																								166.3151	18200	30.269		30.269
3	Construction of Checkdam	1	1000000	10.000																												7.420
4	Raising of Bund planting with Pongamia and Dibbling of Gacchakaya seed																															10.000
	Raising of Plantation				5.00	14000	0.700																									
	1st Year Maint. of Plantation							5.00	4000	0.200																						0.700
	2nd Year Maint.Of Plantation										5.00	4400	0.220																			0.200
	3rd Year Maint.of Plantation													5.00	4900	0.245																0.220
	4th Year Maint.of Plantation																5.00	5400	0.270													0.245
	5th Year Maint.Of Plantation																			5.00	5900	0.295										0.270
4	Digging of Staggered Trenches (Trench size 6.00 M x 0.30M x 0.45 M) (200 Nos x6x0.3x0.45=162 Cum	162.00	242.48	0.393																	5.00	5900	0.295									0.295
5	Protection of watcher for natural plants around the hillock (2 Watchers) for 12 Months	2x9 M	7500	1.350	2x12 M	8250	1.980	2x12 M	9075	2.178	2x12 M	9983	2.396	2x12 M	10981	2.635	2x12 M	12079	2.899	2x12 M	13287	3.189	2x12 M	14615	3.508	2x12 M	16077	3.858	2x12 M	17685	4.244	28.237
	SUB-TOTAL			27.395			54.238			19.841			19.746			21.674			23.792			26.269			28.455			31.467			34.514	287.391
	GRAND TOTAL			142.737			143.283			53.312			53.688			58.950			64.728			71.430			76.998			85.094			93.366	843.584

Sl. No	Item of work	2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			2023-24			2024-25			2025-26			2026-27			Grand total (Rs in lakhs)
		Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs				
VIII	Overhead Misc Exp (10%)			14.274			14.328			5.331			5.369			5.895			6.473			7.143			7.700			8.509			9.337	84.358
IX	Publicity Awareness generation and Entrypoint Activities			40.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	40.000
X	Administration and Infrastructure and Monitoring cost			70.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	70.000
XI	Boundary Demarcation in the proposed area			30.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	30.000
XII	Forest Protection			30.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	30.000
	PROTECTION OF CA LAND GRAND TOTAL			327.011			157.611			58.643			59.057			64.845			71.200			78.573			84.698			93.603			102.702	1097.943
RAISING OF PLANTATION IN DEGRADED AREA (SUITABLE FOR PLANTATION IN PEDDAPALLY AND MANTHANI RANGES OF PEDDAPALLY DIVISION)																																
I	Nurseries																															
1	Raising (453.2955 Ha x 1333=604242 or 605000 Bag plants)	605000	24.00	145.200			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	
2	Maintenance				605000	7.00	42.350			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	145.200
	SUB-TOTAL			145.200			42.350			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	
II	Raising of Plantation (SMM)																															42.350
1	Advance Operation	453.2955	25300	114.684																												187.550
2	Raising of Plantation				453.2955	57000	258.378																									
3	1st Year Maint.of Plantation							453.2955	30700	139.162																						114.684
4	2nd Year Maint.of Plantation										453.2955	19100	86.579																			258.378
5	3rd Year Maint.of Plantation													453.2955	21000	95.192																86.579
6	4th Year Maint.of Plantation																453.2955	23100	104.711													95.192
7	5th Year Maint.of Plantation																			453.2955	25400	115.137										104.711
8	6th Year Maint.of Plantation																					453.2955	27900	126.469								115.137
9	7th Year Maint.of Plantation																						453.2955	30700	139.162							126.469
10	8th Year Maint.of Plantation																								453.2955	30700	139.162					139.162
	SUB-TOTAL			114.684			258.378			139.162			86.579			95.192			104.711			115.137			126.469			139.162			153.214	153.214
	GRAND TOTAL			259.884			300.728			139.162			86.579			95.192			104.711			115.137			126.469			139.162			153.214	1332.689
III	Overhead Misc Exp (10%)			25.988			30.073			13.916			8.658			9.519			10.471			11.514			12.647			13.916			15.321	152.024
	RAISING OF PLANTATIONS IN DEGRADED AREA GRAND TOTAL			285.872			330.801			153.078			95.237			104.711			115.182			126.651			139.116			153.078			168.535	1672.263
	GRAND TOTAL			612.883			488.412			211.721			154.294			169.556			186.383			205.224			223.814			246.681			271.237	2770.206

District Forest Officer
Peddapally

Countersigned ✓
Chief Conservator of Forests
Karimnagar Circle, Karimnagar

Infrastructure for developing the nursery

Sl. No.	Item of work	FSR Item No.	Qty	Rate	Per	Amount
1	Errection of Chainlink fencing/ Construction of Compound wall around the nursery			LS		2000000
2	Construction and maintenance of seed store room			LS		750000
3	Electricity charges and Water charges			LS		400000
4	Procurement of UPS / Generator in case of power failure					
TOTAL						3150000


District Forest Officer
Peddapally

Raising of Misc 10,000 Nos bag plant nursery 10 Beds)

Sl. No.	Item of work	FSR Item No.	Qty	Rate	Per	Amount
		5000	Direct bags			
		5000	Primary Beds			
		10000				
	Primary Bed Nursery					
	Raising of Primary beds of size 1x1x0.3 m. for raising of Red sander species) (50 Beds, Per Bed 100 Nos)					
1	Preparation of Old site by clearing the site by dismantling old beds	01.01.02	50.00	1.08	Per Bed	54
2	Digging soil to a depth of 30 cm	01.01.03	50.00	33.26	Per Bed	1663
3	Cost of sandy soil and transportation with 5 kms lead loading and unloading charges (sandy soil and FYM, in 5:1 ratio i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed	01.01.04	50.00	25.45	Per Bed	1273
4	For every extra km beyond 5 km upto 25 km (45 kms)	01.01.05	50.00	45.45	Per Bed	2273
4	Cost and transport of 0.025 cum FYM	01.01.06	50.00	21.87	Per Bed	1094
4	Mixing of sandy soil and FYM	01.01.07	50.00	9.45	Per Bed	473
4	Covering the beds with dried grass and leaf litter and burning them to ash which can from the upper layer	01.01.08	50.00	10.80	Per Bed	540
4	Cost of seed	01.01.10				5000
7	Sowing of seed	01.01.12	50.00	10.75	Per Bed	538
8	Watering the primary nursery beds with rose water cans for a maximum period of 2 months	01.01.13	50 x 2 Months	12.10	Per Bed / Month	1210
10	Cost of insecticides / Fertilizers	01.01.15	As per actuals			1000
11	Application of insecticides / Fertilizers	01.01.16	by watcher			0
12	Misc Exp					884
	Sub-Total-I					16000
	Bed size 10x1x0.25 Mts (Bag size 4"x7")					
	Bag Plant Nursery (10000/2600=3.84 or 4 Beds					
1	Site preparation for old site - Clearing of growth, weeds, grass etc.,	01.03.02	6.00	11.56	Per Bed	69
2	Cost and transport of ingredients for Potting mixture Red soil and Clayey soils in 2:1 ratio upto 5 Kms lead	01.03.05	10000	174.06	1000	1741
2	Cost and transport of ingredients for Potting mixture Red soil and Clayey soils in 2:1 ratio beyond 5 Kms lead (20 Kms)	01.03.07	10000	90.80	1000	908
3	Alignment of beds including alignment of inspection path etc.,	01.03.11	6.00	6.59	Per Bed	40
4	Preparation of potting mixture Red Soil and Clayey soil in 2:1 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	01.03.09	10000	509.22	1000	5092
5	Cost of Polythene bags 4x7, 200 gauge 4x7 (including 10% casualties) (589 bags /Kg)	01.03.03	19	135.00	Kg	2565
6	Picking out seedlings from primary beds and transplanting in bags	01.03.12	10000	122.74	1000	1227
9	Watering the plants twice a day from July to October	01.03.14	6 x 4 Months	238.19	Per Bed / Month	5717
10	Weeding the beds					
	1st Weeding - July	01.03.16	6.00	43.74	Per Bed / Weeding	262
	2nd Weeding - August	01.03.17	6.00	43.74	Per Bed / Weeding	262
	3rd Weeding - September	01.03.18	6.00	43.74	Per Bed / Weeding	262

Sl. No.	Item of work	FSR Item No.	Qty	Rate	Per	Amount
11	Shifting and Grading and re-arranging in beds for 10m x 1m size bed (1700 5"x9" bags)	01.03.19	6.00	204.28	Per Bed / Shifting	1226
12	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed	01.03.20	0.6	58.00	Bed	35
13	Cost of chemicals, Insecticides, pesticides etc.,			As per actuals		5000
17	Watch and Ward for the month of July to October		1 No x 4 Months	7500.00	Per Month	30000
18	Misc exp					839
	Sub-Total-II					55245
	Conversion (4"x7" to 6"x12")					
	Bag Plant Nursery (10000/1100=9.09 or 10.00 Beds)					
1	Cost and transport of ingredients for Potting mixture Red soil, Tank silt, FYM upto 5 km lead	01.03.26	10000	494.29	1000	4943
2	Cost and transport of ingredients for Potting mixture Red soil, Tank silt, FYM beyond 5 km to 25 Kms lead	01.03.31	10000	257.60	1000	2576
3	Preparation of potting mixture Red Soil and Clayey soil in 2:1 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	01.03.36	10000	870.78	1000	8708
4	Weeding the plants					
	1st Weeding - Dec	01.03.44	10.00	43.74	Per Bed / Weeding	437
	2nd Weeding - Feb	01.03.45	10.00	43.74	Per Bed / Weeding	437
5	Shifting and Grading and re-arranging in beds for 10m x 1m size bed (1700 5"x9" bags)	01.03.46	10.00	204.28	Per Bed / Shifting	2043
6	Watering the plants twice a day from Nov to March	01.03.47	10 x 5 Months	238.19	Per Bed / Month	11910
7	Cost of chemicals, Insecticides, pesticides etc.,			As per actuals		5000
8	Watch and Ward for the month of July to October		1 No x 5 Months	7500.00	Per Month	37500
9	Cost of Polythene bags 6x12		37	135.00	Kg	4995
10	Misc exp					367
	Sub-Total-III					170000
	GRAND TOTAL(10000 Nos)					241245
	2016-17				Each Bag	24.12
					Or	24.00


 District Forest Officer
 Peddapally

Maintenance of Misc Bag nursery from April to August

Sl. No.	Item of work	FSR Item No.	Qty	Rate	Per	Amount
1	Watering the plants for 10M x 1 M size bed from April to August (6"x12")	01.04.01	10x 5 Months	238.19	Per bed / Month	11910
2	Weeding once during maintenance year	01.04.03	10.00	43.74	Per bed / weeding	437
3	Shifting and Grading and Re-arranging in beds for 10 M x1 M size bed (Once in April and another in June)	01.04.04	10.00	215.68	Per Bed / Shifting	2157
4	Cost of cow dung slurry	01.04.07		As per actuals		5000
5	Application of cow dung slurry	01.04.08	10000	179.17	1000	1792
6	Watch and Ward for the month of April to August		1 No x 5 Months	7500.00	Per Month	37500
7	Misc Exp					5205
	2016-17					64000
	2017-18 (Add 10% Escallation charges)					70400
	Per bag					7.040


 District Forest Officer
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1 Ha: Unit cost

Advance Operations for Raising of Gap planting

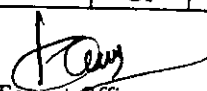
Sl. No	Item of work	FSR Code	Qty	Rate	Units	Amount
1	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	02.01.01	1.00	311.04	Plantation	311
2	Clearing unsealable unwanted jungle growth, Spreading the cut material allover the site and Burning the same twice till completely burnt.					
a	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth) (50%)	02.01.03	0.50	2598.59	Ha.	1299
b	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth) (50%)	02.01.06	0.50	5207.65	Ha.	2604
3	Misc Exp					286
	2016-17					4500
3	Add 10% Escallation charges					450
	2017-18					4950


District Forest Officer
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1 Ha: Unit cost

Raising of Gap planting (LIM) (6"x12" Bag Plants)


Sl. No.	Item of work	FSR Code	Qty	Rate	Per	Amount
1	Alignment and Stacking including Demarcation of Base line	02.01.07	200	74.20	100	148
2	Digging of pits in 45 cm. cube pits (Hard Gravel soils)	02.01.13	200	21.23	each	4246
3	Transport of Bag plants nursery site to plantation site including loading and unloading: Total:30 KMs					
	Upto 5 Kms	02.02.02	200	96.79	100	194
	Beyond 5 Kms (25 KMs)	02.02.05	200	84.50	100	169
4	Internal transport of bag plants to planting points on head loads.	02.02.08	200	76.25	100	153
5	Planting Bag Plants :45cmX45cmX45 cm pits	02.02.16	200	363.37	100	727
6	Blasting charges for planting pits (200x0.45x0.45x0.45=18.225)		18.225	81.40	Cum	1484
7	Transportation of soils for gap planting (200x0.45x0.45x0.45=18.225)		18.225	649.00	Cum	11828
	Cost of soil	40.00				
	Transportation (50 KMs)					
	Lead upto 5 Kms	84.00				
	for every Km beyond 5 Km upto 30KMs (25)	315.00				
	for every Km beyond 30KMs (20 Kms)	210.00				
	Per Cum	649.00				
8	Cost of DAP	02.02.18	200	As per actuals		400
9	Application of fertilizer	02.02.19	200	32.62	100	65
10	1st Circular weeding to a radius of 0.5m around the plant after 30 days of planting	02.02.20	200	103.79	100	208
11	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.02.21	200	103.79	100	208
12	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.02.23	200	545.08	100	1090
13	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) (200x20%=40)	02.02.17				
	Pitting - 50% rate	02.01.13	40	1061.50	100	425
	Planting - 50% rate	02.02.16	40	181.69	100	73
	Transportation -50% rate	02.02.02	40	48.40	100	19
	Transportation -50% rate	02.02.05	40	42.25	100	17
	Internal transport ation-50% rate	02.02.08	40	38.13	100	15
14	Creation of Fire lines 3 mts wide	02.01.05	100	5.08	Rmt	508
15	Watch and ward (7500x9M=67500 per 20 Ha for 1 Ha 67500/20=3375/-	02.02.29	1	3375.00	PM	3375
16	Misc exp					250
	2016-17					25600
	2017-18 (Add 10% Escallation charges)					28160
	2018-19 (Add 10% Escallation charges)					30976
					Or	31000


District Forest Officer
Peddapally

1 Ha:Unit cost

1st Year maintenance of Gap Planting


Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.03.02	200	103.79	100	208
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.03.03	200	103.79	100	208
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.03.05	200	545.08	100	1090
4	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) (200x25%=50)	02.03.06				
	Pitting	02.01.13	50	21.23	each	1062
	Planting	02.02.16	50	363.37	100	182
	Transportation upto 5 KMs	02.02.02	50	96.79	100	48
	Transportation above 5KMs	02.02.05	50	84.50	100	42
	Internal transport ation	02.02.08	50	76.25	100	38
5	Pruning of lower branches	02.03.08	200	103.19	100	206
6	Watch and ward (7500x12M=90000 per 20 Ha for 1 Ha 90000/20=4500/-	02.03.10	1	4500.00	PM	4500
7	Misc exp					216
	2016-17					7800
	2017-18 (Add 10% Escallation charges)					8580
	2018-19 (Add 10% Escallation charges)					9438
	2019-20 (Add 10% Escallation charges)					10381
					or	10500


 District Forest Officer
 Peddapally

1 Ha:Unit cost

2nd Year maintenance of Gap Planting

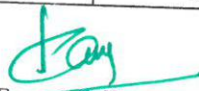
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	200	103.79	100	208
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	200	103.79	100	208
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.04.04	200	545.08	100	1090
4	Cutting of coppice growth	02.04.05	1	810.22	Ha	810
5	Watch and ward (7500x12M=90000 per 20 Ha for 1 Ha 90000/20=4500/-	02.04.08	1	4500.00	PM	4500
6	Misc exp					184
	2016-17					7000
	2017-18 (Add 10% Escallation charges)					7700
	2018-19 (Add 10% Escallation charges)					8470
	2019-20 (Add 10% Escallation charges)					9317
	2020-21 (Add 10% Escallation charges)					10249
					or	10300


District Forest Officer
Peddapally

1 Ha:Unit cost

3rd Year maintenance of Gap Planting

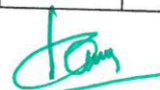
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	200	103.79	100	208
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	200	103.79	100	208
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.04.04	200	545.08	100	1090
4	Cutting of coppice growth	02.04.05	1	810.22	Ha	810
5	Watch and ward (7500x12M=90000 per 20 Ha for 1 Ha 90000/20=4500/-	02.04.08	1	4500.00	PM	4500
6	Misc exp					184
	2016-17					7000
	2017-18 (Add 10% Escallation charges)					7699
	2018-19 (Add 10% Escallation charges)					8469
	2019-20 (Add 10% Escallation charges)					9316
	2020-21 (Add 10% Escallation charges)					10248
	2021-22 (Add 10% Escallation charges)					11273
					or	11300


District Forest Officer
Peddapally

1 Ha:Unit cost

4th Year maintenance of Gap Planting

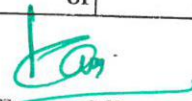
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	200	103.79	100	208
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	200	103.79	100	208
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.04.04	200	545.08	100	1090
4	Cutting of coppice growth	02.04.05	1	810.22	Ha	810
5	Watch and ward (7500x12M=90000 per 20 Ha for 1 Ha 90000/20=4500/-	02.04.08	1	4500.00	PM	4500
6	Misc exp					184
	2016-17					7000
	2017-18 (Add 10% Escallation charges)					7699
	2018-19 (Add 10% Escallation charges)					8469
	2019-20 (Add 10% Escallation charges)					9316
	2020-21 (Add 10% Escallation charges)					10248
	2021-22 (Add 10% Escallation charges)					11273
	2022-23 (Add 10% Escallation charges)					12400


District Forest Officer
Peddapally

1 Ha:Unit cost

5th Year maintenance of Gap Planting

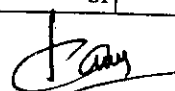
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	200	103.79	100	208
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	200	103.79	100	208
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.04.04	200	545.08	100	1090
4	Cutting of coppice growth	02.04.05	1	810.22	Ha	810
5	Watch and ward (7500x12M=90000 per 20 Ha for 1 Ha 90000/20=4500/-	02.04.08	1	4500.00	PM	4500
6	Misc exp					184
	2016-17					7000
	2017-18 (Add 10% Escallation charges)					7699
	2018-19 (Add 10% Escallation charges)					8469
	2019-20 (Add 10% Escallation charges)					9316
	2020-21 (Add 10% Escallation charges)					10248
	2021-22 (Add 10% Escallation charges)					11273
	2022-23 (Add 10% Escallation charges)					12400
	2023-24 (Add 10% Escallation charges)					13640
					or	13700


District Forest Officer
Peddapally

1 Ha:Unit cost

6th Year maintenance of Gap Planting


Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	200	103.79	100	208
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	200	103.79	100	208
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.04.04	200	545.08	100	1090
4	Cutting of coppice growth	02.04.05	1	810.22	Ha	810
5	Watch and ward (7500x12M=90000 per 20 Ha for 1 Ha 90000/20=4500/-	02.04.08	1	4500.00	PM	4500
6	Misc exp					184
	2016-17					7000
	2017-18 (Add 10% Escallation charges)					7699
	2018-19 (Add 10% Escallation charges)					8469
	2019-20 (Add 10% Escallation charges)					9316
	2020-21 (Add 10% Escallation charges)					10248
	2021-22 (Add 10% Escallation charges)					11273
	2022-23 (Add 10% Escallation charges)					12400
	2023-24 (Add 10% Escallation charges)					13640
	2024-25 (Add 10% Escallation charges)					15004
					or	15000


District Forest Officer
Peddapally

1 Ha:Unit cost

7th Year maintenance of Gap Planting

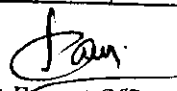
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	200	103.79	100	208
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	200	103.79	100	208
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.04.04	200	545.08	100	1090
4	Cutting of coppice growth	02.04.05	1	810.22	Ha	810
5	Watch and ward (7500x12M=90000 per 20 Ha for 1 Ha 90000/20=4500/-	02.04.08	1	4500.00	PM	4500
6	Misc exp					184
	2016-17					7000
	2017-18 (Add 10% Escallation charges)					7699
	2018-19 (Add 10% Escallation charges)					8469
	2019-20 (Add 10% Escallation charges)					9316
	2020-21 (Add 10% Escallation charges)					10248
	2021-22 (Add 10% Escallation charges)					11273
	2022-23 (Add 10% Escallation charges)					12400
	2023-24 (Add 10% Escallation charges)					13640
	2024-25 (Add 10% Escallation charges)					15004
	2025-26 (Add 10% Escallation charges)					16505
					or	16600


District Forest Officer
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1 Ha:Unit cost

8th Year maintenance of Gap Planting

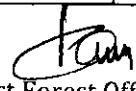
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	200	103.79	100	208
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	200	103.79	100	208
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Hard Gravel soils	02.04.04	200	545.08	100	1090
4	Cutting of coppice growth	02.04.05	1	810.22	Ha	810
5	Watch and ward (7500x12M=90000 per 20 Ha for 1 Ha 90000/20=4500/-	02.04.08	1	4500.00	PM	4500
6	Misc exp					184
	2016-17					7000
	2017-18 (Add 10% Escallation charges)					7699
	2018-19 (Add 10% Escallation charges)					8469
	2019-20 (Add 10% Escallation charges)					9316
	2020-21 (Add 10% Escallation charges)					10248
	2021-22 (Add 10% Escallation charges)					11273
	2022-23 (Add 10% Escallation charges)					12400
	2023-24 (Add 10% Escallation charges)					13640
	2024-25 (Add 10% Escallation charges)					15004
	2025-26 (Add 10% Escallation charges)					16505
	2026-27 (Add 10% Escallation charges)					18155
					or	18200


District Forest Officer
Peddapally

1 KM: Unit cost

Raising of Bund planting (LIM) (Pongamia: Top: Esp 4.00 Mts) and Slopes dibbling of Gacchakaya seeds esp 1.00 Mt


Sl. No.	Item of work	FSR Code	Qty	Rate	Per	Amount
	Raising of Gacchakaya					
1	Cost of Gacchakaya (1 KM)		6	200	Kg	1200
2	Dibbling of Gacchakaya on bund slopes	05.08.18	1	374.30	Km	374
	Raising of Pongamia bag plants (Esp:4.00 Mts)					
3	Cost of 0.45 M Stake preparation and transportation to site.	02.01.09	250	47.30	100	118
4	Digging of pits in Ordinary soils 45 cm. cube pits	02.01.11	250	18.75	each	4688
5	Transportation of bag plants from nursery site to planting site					
	Upto 5 Km lead	02.02.02	250	96.79	100	242
	Beyond 5 Kms to 25 Kms lead (20 Kms)	02.02.05	250	67.60	100	169
	Beyond 25 Kms lead (25 Kms)	02.02.08	250	42.25	100	106
6	Internal transport of bag plants to planting points on head loads.	02.02.11	250	76.25	100	191
7	Planting Bag Plants :45cmX45cmX45 cm pits	02.02.16	250	363.37	100	908
8	1st Circular weeding to a radius of 0.5m around the plant after 30 days of planting	02.02.20	250	103.79	100	259
9	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.02.21	250	103.79	100	259
10	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Ordinary soils	02.02.22	250	363.37	100	908
11	Cost of Fertilisers	02.02.18	250	As per actuals		500
12	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cmts away from plant amd putting fertilizers and closing	02.02.19	250	32.62	100	82
13	Replacement of Casualties 20% during Raising & 25% in 1st year (In case oif Eucalyptus 10% during raising and no casualty replacement for further maintenance) (250x20%=50)	02.02.31				
	Pitting - 50% rate	02.01.11	50	937.50	100	469
	Planting - 50% rate	02.02.16	50	181.69	100	91
	Transportation upto 5 Kms-50% rate	02.02.02	50	48.40	100	24
	Transportation beyond 5 to 25 Km-50% rate	02.02.05	50	33.80	100	17
	Transportation beyond 25 Km-50% rate	02.02.08	50	21.13	100	11
	Internal transport ation-50% rate	02.02.11	50	38.13	100	19
14	Misc Exp					865
	2016-17					11500
	2017-18 (Add 10% Escallation charges)					12650
	2018-19 (Add 10% Escallation charges)					13915
					Or	14000


District Forest Officer
Peddapally

1 KM:Unit cost

1st Year maintenance of Bund Planting

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.03.02	250	103.79	100	259
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.03.03	250	103.79	100	259
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Ordinary soils	02.03.04	250	363.37	100	908
4	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) (250x25%=62)	02.03.06				
	Pitting - 50% rate	02.01.11	50	937.50	100	469
	Planting - 50% rate	02.02.16	50	181.69	100	91
	Transportation upto 5 Kms-50% rate	02.02.02	50	48.40	100	24
	Transportation beyond 5 to 25 Km-50% rate	02.02.05	50	33.80	100	17
	Transportation beyond 25 Km-50% rate	02.02.08	50	21.13	100	11
	Internal transportation-50% rate	02.02.11	50	38.13	100	19
5	Pruning of lower branch	02.03.08	250	103.19	100	258
6	Misc exp					684
	2016-17					3000
	2017-18 (Add 10% Escallation charges)					3300
	2018-19 (Add 10% Escallation charges)					3630
	2019-20 (Add 10% Escallation charges)					3993
					or	4000


 District Forest Officer
 Peddapally

1 KM:Unit cost

2nd Year maintenance of Bund Planting

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	250	103.79	100	259
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	250	103.79	100	259
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Ordinary soils	02.04.03	250	363.37	100	908
4	Coppice cutting growth	02.04.05	1	810.22	Ha	810
5	Misc exp					762
	2016-17					3000
	2017-18 (Add 10% Escallation charges)					3300
	2018-19 (Add 10% Escallation charges)					3629
	2019-20 (Add 10% Escallation charges)					3992
	2020-21 (Add 10% Escallation charges)					4392
					or	4400



District Forest Officer
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1 KM:Unit cost

3rd Year maintenance of Bund Planting

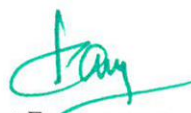
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	250	103.79	100	259
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	250	103.79	100	259
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Ordinary soils	02.04.03	250	363.37	100	908
4	Coppice cutting growth	02.04.05	1	810.22	Ha	810
5	Misc exp					762
	2016-17					3000
	2017-18 (Add 10% Escallation charges)					3300
	2018-19 (Add 10% Escallation charges)					3629
	2019-20 (Add 10% Escallation charges)					3992
	2020-21 (Add 10% Escallation charges)					4392
	2021-22 (Add 10% Escallation charges)					4831
					or	4900


District Forest Officer
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1 KM:Unit cost

4th Year maintenance of Bund Planting


Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	250	103.79	100	259
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	250	103.79	100	259
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Ordinary soils	02.04.03	250	363.37	100	908
4	Coppice cutting growth	02.04.05	1	810.22	Ha	810
5	Misc exp					762
	2016-17					3000
	2017-18 (Add 10% Escallation charges)					3300
	2018-19 (Add 10% Escallation charges)					3629
	2019-20 (Add 10% Escallation charges)					3992
	2020-21 (Add 10% Escallation charges)					4392
	2021-22 (Add 10% Escallation charges)					4831
	2022-23 (Add 10% Escallation charges)					5314
					or	5400


District Forest Officer
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1 KM:Unit cost

5th Year maintenance of Bund Planting

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	1st Circular weeding to a radius of 0.5m around the plant	02.04.01	250	103.79	100	259
2	2nd Circular weeding to a radius of 0.5m around the plant after 90 days of planting	02.04.02	250	103.79	100	259
3	Deep soil working to a radius of 0.5 m. and to a depth of 10 without damaging the plant in Ordinary soils	02.04.03	250	363.37	100	908
4	Coppice cutting growth	02.04.05	1	810.22	Ha	810
5	Misc exp					762
	2016-17					3000
	2017-18 (Add 10% Escallation charges)					3300
	2018-19 (Add 10% Escallation charges)					3629
	2019-20 (Add 10% Escallation charges)					3992
	2020-21 (Add 10% Escallation charges)					4392
	2021-22 (Add 10% Escallation charges)					4831
	2022-23 (Add 10% Escallation charges)					5314
	2023-24 (Add 10% Escallation charges)					5845
					or	5900


 District Forest Officer
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Publicity Awareness generation and Entrypoint Activities

Sl. No.	Item of work	Qty	Rate	Per	Amount
1	Publicity boards for awareness on forest and Environments		LS		1000000
2	Awareness generation programme for the public like organising seminars / workshops etc.,		LS		1000000
3	Study tours for forest front line staff				
4	Entry point activities for adjoining villages training and capacity buildings		LS		2000000
	TOTAL				4000000


 District Forest Officer
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Administration and Infrastructure and Monitoring cost

Sl. No.	Item of work	Qty	Rate	Per	Amount
1	Purchase of GPS, Computers and other equipments etc.,		LS		500000
2	Purchase of Fire Fighting equipments		LS		500000
3	Remuneration for Computer Assistants/ for monitoring		LS		1000000
4	Monitoring Evaluation and Administrative cost				
5	Purchase of vehicles (2 Innova + 1 Bolero) for the supervision monitoring and evaluation by Forest Officers at the Division and Circle level		LS		5000000
	TOTAL				7000000


 District Forest Officer
 Peddapally

Boundary Demarcation in the proposed area

Sl. No.	Item of work	Qty	Rate	Per	Amount
1	Construction of boundary pillars	150	10000	Each	1500000
2	Errection of Chainlink / Wall alongwith Gate wherever trench not possible		LS		1500000
	TOTAL				3000000


District Forest Officer
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Forest Protection

Sl. No.	Item of work	Qty	Rate	Per	Amount
1	Errection of Watch Tower		LS		500000
2	Protection quarters for frontline staff		LS		2500000
	TOTAL				3000000



District Forest Officer
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UNIT COST 1.00 Ha**Advance Operations for Raising of NTSH Plantation 3 X 3 M. (SMM)**

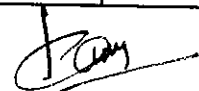
Sl. No	Item of work	Code	Qty	Rate	Units	Amount
1	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	02.08.01	1.00	311.04	Plantation	311
2	Clearing unsealable unwanted jungle growth, Spreading the cut material allover the site and Burning the same twice till completely burnt.					
a	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth) (50%)	02.08.03	0.50	2598.59	Ha.	1299
b	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth) (50%)	02.08.04	0.50	5207.65	Ha.	2604
3	Uprootal of stumps to a depth of 45 cm (excluding unsuitable patches) with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal and leveling.					
a	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth) (50%)	02.08.06	0.50	8434.51	Ha.	4217
b	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth) (50%)	02.08.07	0.50	10965.25	Ha.	5483
4	Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site.					
a	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth) (50%)	02.08.08	0.50	7363.33	Ha.	3682
b	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth) (50%)	02.08.09	0.50	8585.68	Ha.	4293
5	Misc Exp					1111
	2016-17					23000
	2017-18 (Add 10% Escallation charges)					25299
	2017-18 (Add 10% Escallation charges)				Or	25300


 District Forest Officer
 Peddapally

Raising of NTSH Plantation 3x3M (Semi Mechanical Method)

Sl. No.	Item of work	FSR Item No.	Qty	Rate	Per	Amount
1	Deep ploughing the plantation area to a depth of 30 cm with heavy duty tractor of 45 HP and above across the slope with mould board plough (Untilled areas)					
	Ordinary soils	02.09.01	1.00	3004.60	Ha	3005
2	Removing congestion of root suckers and other uprooted material hindering the effective ploughing (For Non-tilled area only)	02.09.04	1	853.42	Ha	853
3	Alignment and staking including laying base line for Misc with espacement 3m x 3m (1111 Nos)	02.09.07	1111	63.30	100	703
4	Cost of 0.45 M stake preparation and transportation to site	02.09.09	1111	47.30	100	526
5	Digging of 45 cm cube pits	02.09.11	1111	8.84	each	9821
6	Transportation of bag plants from nursery site to plantation site including loading and unloading (6x12 bag size) Total:60 KMs					
	Upto 5 KMs	02.09.13	1111	96.79	100	1075
	beyond 5 Kms to 25 Kms	02.09.16	1111	67.60	100	751
	above 25 Kms (35 Kms)	02.09.19	1111	59.15	100	657
7	Internal transportation of bag plants to planting points on head loads	02.09.22	1111	76.25	100	847
8	Planting bag plants (45cmx45cmx45cm pits)	02.09.27	1111	363.37	100	4037
9	Cost of SSP	02.09.25	1111	As per actuals		2222
10	Application of SSP	02.09.24	1111	32.62	100	362
11	Circular weeding to a radius of 0.5 Mts	02.09.31	1111	103.79	100	1153
12	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.09.32	1111	545.08	100	6056
13	Replacement of Casualties 20% (Bag plants) (1111x20%=222 Nos)	02.09.29				
	Pitting (50% rate)	02.09.11	222	442.00	100	981
	Planting(50% rate)	02.09.27	222	181.69	100	403
	Transportation:Upto 5 KMs(50% rate)	02.09.13	222	48.40	100	107
	beyond 5 Kms to 25 Kms	02.09.16	222	33.80	100	75
	above 25 Kms (35 Kms)	02.09.19	222	29.58	100	66
	Internal transportation (50% rate)	02.09.22	222	38.13	100	85

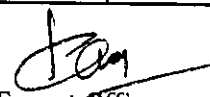
Sl. No.	Item of work	FSR Item No.	Qty	Rate	Per	Amount
14	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in Ordinary soils	02.09.33	1.00	2048.90	Ha	2049
15	Cost of Chemical fertilisers		1111	As per actuals		2222
16	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cm away from plant amd putting fertilizers and closing	02.09.30	1111	32.62	100	362
17	Cost of protection watcher (7500x9M=67500/20=3375)	02.09.38	1 No	3375	PM	3375
19	Uprootal of Mahaveera weed (with prior approval of the CF/CCF)	02.09.36	1.00	3032.48	Ha	3032
19	Pruning of lower branches	02.09.35	1111	103.19	100	1146
20	Misc Exp					1026
	2016-17					47000
	2017-18 (Add 10% Escallation charges)					51700
	2018-19 (Add 10% Escallation charges)					56870
					Or	57000


 District Forest Officer
 Peddapally

UNIT COST 1.00 Ha

1st Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) $(1111 \times 20\% = 222)$	02.10.01				
	Pitting	02.09.11	278	884.00	100	2458
	Planting	02.09.27	278	363.37	100	1010
	Transportation: Upto 5 KMs	02.09.13	278	96.79	100	269
	beyond 5 Kms to 25 Kms	02.09.16	278	67.60	100	188
	above 25 Kms (35 Kms)	02.09.19	278	59.15	100	164
	Internal transportation	02.09.22	278	76.25	100	212
2	Circular weeding to a radius of 0.5 Mts	02.10.02	1111	103.79	100	1153
3	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.10.03	1111	545.08	100	6056
4	Uprootal of Mahaveera weed (with prior approval of the CF/CCF)	02.10.04	1.00	3032.48	Ha	3032
5	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in Ordinary soils	02.10.05	1.00	2048.90	Ha	2049
6	Pruning of lower branches	02.10.06	1111	103.19	100	1146
7	Cost of protection watcher $(7500 \times 12M = 90000 / 20 = 4500)$	02.10.08	1 No	4500	PM	4500
8	Misc Exp					762
	2016-17					23000
	2017-18 (Add 10% Escallation charges)					25300
	2018-19 (Add 10% Escallation charges)					27830
	2019-20 (Add 10% Escallation charges)					30613
					or	30700


 District Forest Officer
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UNIT COST 1.00 Ha

2nd Year maintenance of NTSH Plantation

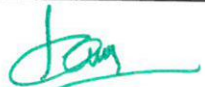
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.11.01	1111	545.08	100	6056
2	Pruning of lower branches	02.11.02	1111	103.19	100	1146
3	Cost of protection watcher (7500x12M=90000/20=4500)	02.10.08	1 No	4500	PM	4500
4	Misc Exp					1298
	2016-17					13000
	2017-18 (Add 10% Escallation charges)					14300
	2018-19 (Add 10% Escallation charges)					15730
	2019-20 (Add 10% Escallation charges)					17303
	2020-21 (Add 10% Escallation charges)					19034
					or	19100


 District Forest Officer
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UNIT COST 1.00 Ha

3rd Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.11.01	1111	545.08	100	6056
2	Pruning of lower branches	02.11.02	1111	103.19	100	1146
3	Cost of protection watcher (7500x12M=90000/20=4500)	02.10.08	1 No	4500	PM	4500
4	Misc Exp					1298
	2016-17					13000
	2017-18 (Add 10% Escallation charges)					14300
	2018-19 (Add 10% Escallation charges)					15730
	2019-20 (Add 10% Escallation charges)					17303
	2020-21 (Add 10% Escallation charges)					19034
	2021-22 (Add 10% Escallation charges)					20937
					or	21000


 District Forest Officer
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UNIT COST 1.00 Ha

4th Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.11.01	1111	545.08	100	6056
2	Pruning of lower branches	02.11.02	1111	103.19	100	1146
3	Cost of protection watcher (7500x12M=90000/20=4500)	02.10.08	1 No	4500	PM	4500
4	Misc Exp					1298
	2016-17					13000
	2017-18 (Add 10% Escallation charges)					14300
	2018-19 (Add 10% Escallation charges)					15730
	2019-20 (Add 10% Escallation charges)					17303
	2020-21 (Add 10% Escallation charges)					19034
	2021-22 (Add 10% Escallation charges)					20937
	2022-23 (Add 10% Escallation charges)					23031
					or	23100



District Forest Officer
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UNIT COST 1.00 Ha

5th Year maintenance of NTSH Plantation

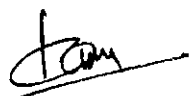
Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.11.01	1111	545.08	100	6056
2	Pruning of lower branches	02.11.02	1111	103.19	100	1146
3	Cost of protection watcher (7500x12M=90000/20=4500)	02.10.08	1 No	4500	PM	4500
4	Misc Exp					1298
	2016-17					13000
	2017-18 (Add 10% Escallation charges)					14300
	2018-19 (Add 10% Escallation charges)					15730
	2019-20 (Add 10% Escallation charges)					17303
	2020-21 (Add 10% Escallation charges)					19034
	2021-22 (Add 10% Escallation charges)					20937
	2022-23 (Add 10% Escallation charges)					23031
	2023-24 (Add 10% Escallation charges)					25334
					or	25400


 District Forest Officer
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UNIT COST 1.00 Ha

6th Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.11.01	1111	545.08	100	6056
2	Pruning of lower branches	02.11.02	1111	103.19	100	1146
3	Cost of protection watcher (7500x12M=90000/20=4500)	02.10.08	1 No	4500	PM	4500
4	Misc Exp					1298
	2016-17					13000
	2017-18 (Add 10% Escallation charges)					14300
	2018-19 (Add 10% Escallation charges)					15730
	2019-20 (Add 10% Escallation charges)					17303
	2020-21 (Add 10% Escallation charges)					19034
	2021-22 (Add 10% Escallation charges)					20937
	2022-23 (Add 10% Escallation charges)					23031
	2023-24 (Add 10% Escallation charges)					25334
	2024-25 (Add 10% Escallation charges)					27867
					or	27900


 District Forest Officer
 Peddapally

UNIT COST 1.00 Ha

7th Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.11.01	1111	545.08	100	6056
2	Pruning of lower branches	02.11.02	1111	103.19	100	1146
3	Cost of protection watcher (7500x12M=90000/20=4500)	02.10.08	1 No	4500	PM	4500
4	Misc Exp					1298
	2016-17					13000
	2017-18 (Add 10% Escallation charges)					14300
	2018-19 (Add 10% Escallation charges)					15730
	2019-20 (Add 10% Escallation charges)					17303
	2020-21 (Add 10% Escallation charges)					19034
	2021-22 (Add 10% Escallation charges)					20937
	2022-23 (Add 10% Escallation charges)					23031
	2023-24 (Add 10% Escallation charges)					25334
	2024-25 (Add 10% Escallation charges)					27867
	2025-26 (Add 10% Escallation charges)					30654
					or	30700



District Forest Officer
Peddapally

UNIT COST 1.00 Ha

8th Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Unit	Amount
1	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant	02.11.01	1111	545.08	100	6056
2	Pruning of lower branches	02.11.02	1111	103.19	100	1146
3	Cost of protection watcher (7500x12M=90000/20=4500)	02.10.08	1 No	4500	PM	4500
4	Misc Exp					1298
	2016-17					13000
	2017-18 (Add 10% Escallation charges)					14300
	2018-19 (Add 10% Escallation charges)					15730
	2019-20 (Add 10% Escallation charges)					17303
	2020-21 (Add 10% Escallation charges)					19034
	2021-22 (Add 10% Escallation charges)					20937
	2022-23 (Add 10% Escallation charges)					23031
	2023-24 (Add 10% Escallation charges)					25334
	2024-25 (Add 10% Escallation charges)					27867
	2025-26 (Add 10% Escallation charges)					30654
	2026-27 (Add 10% Escallation charges)					33719
					or	33800



District Forest Officer
Peddapally