#### COMPENSATORY AFFORESTATION FOR PROJECT OF KALESHWARAM PROJECT OF IRRIGATION AND CAD DEPARTMENT CA OF 304.245 HA IN DIFFERENT SURVEY NO'S OF SIDDIPET DIST

Sf.			Total Outle	ay	2017	- 18	2018	3 - 19	2019	- 20	2020	- 21	2021	- 22	2022	23	2023	- 24	2024	- 25	2025	- 26	2026	- 27	2027	- 28	2028	- 29	Gran	id Total
No	Item of Work	Unit	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin		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	1				22	23	24	25
	emi Mechanical Method																							<del></del>						
	lanting activities dvance Operations	Ha	304.25	85.32	304.25	85.32					Ι				T	Т	Т												304.25	85.3
	aising	Ha	304.25	565.59			304.25	585.59							Ī						Ī	· · · · · · · · · · · · · · · · · · ·							304.25	565.5
	st Year Maintenance	Нa	304.25	182.76					304.25	182.76																			304.25	182.7
4 2r	nd Year Maintenance	Ha	304.25	91.81							304.25	91.81			-	+											- i	-	304.25	91.8
	d Year Maintenance	Ha	304.25	100.99							004.20	31.01	304.25	100.99									1	-			Î		304.25	100.9
	h Year Maintenance	На	304.25	111.09		İ									304.25	111.09													304.25	111.0
	h Year Maintenance	На	304.25	122.19					1				ĺ				304.25	122.19									-		304.25	122.1
8 6t	th Year Maintenance	На	304.25	134.41															304.25	134.41									304.25	134.4
9 7t	th Year Maintenance	Ha	304.25	147.85										- 1							304.25	147.85						_	304.25	147.8
10 8t	th Year Maintenance	Ha	304.25	162.64																-			304.25	162.64			-		304.25	162.6
11 9t	th Year Maintenance	Ha	304.25	178.90																					304.25	178.90	- 1		304.25	178.9
12 10	Oth Year Maintenance	Ha	304.25	196.79			1	-																			304.25	196.79	304.25	196.7
					l	1						1						l							<u> </u>			<del></del>		•
	SMC Works		1	1		1						1	1	Y				- <del>-</del>	· · · · · · · · · · · · · · · · · · ·						1					
13 C	onstruction of Check Dams	No's	10	80.00			3.00	24.00			3.00	24.00			3.00	24.00	1.00	8.00								<b>.</b>			10.00	80.0
14 C	onstruction of Mini P.T's	No's	25	50.00			5.00	10.00	5.00	10.00	5.00	10.00	5.00	10.00	5.00	10.00						ļ							25.00	50.0
7 % 1	onstruction of Rock Filled ams	No's	20	30.00			5.00	7.50	5.00	7.50	5.00	7.50	5.00	7.50													_	<del>v_</del>	20.00	30.0
S	ub Total:	Ha	304.245	2240.35	304.25	85.32	304.25	565.59	304.25	182.76	304.25	91.81	304.25	100.99	304.25	111.09	304.25	122.19	304.25	134.41	304.25	147.85	304.25	162.64	304.245	178.90	304.25	196.79	304.25	2240.3
10 ar	ixing of Chain Link Fencing round the Proposed CA rea for raising SMM	Ha	33.000	495.00			33.00	495.00										:											33.00	495.0
	lantation ligging of Borewell	No's	9.00	36.00	9.00	36.00					··																		9.00	36.0
12 C	onstruction of Watcher heds	No's	9.00	27.00		18.00	3.00	9.00			-		:																	27.0
S	ub Total:			558.00	į	54.00		504.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		558.0
W	orks Total			2798.35		139.32		1069.59		182.76		91.81		100.99		111.09		122.19		134.41		147.85		162.64		178.90		196.79	<u>i</u>	2798.3
A	dmin Cost																							<i>.</i>	,				<del>,</del>	т
13 sı	conveyance to FSO for work upervision @ Rs.12000/- er month total (2) Foresters	No's	2.00	34.56	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88	2.00	2.88		34.8
	onveyance to FRO for work upervision @ Rs.17000/-	No's	1.00	24.48	1.00	2.04	1.00	2.04	1.00	2.04	1.00	2.04	1.00	2.04	1.00	2,04	1,00	2.04	1.00	2.04	1.00	2.04	1.00	2.04	1.00	2.04	1.00	2.04		24.4
	mproving facilities at iddipet Range	L.s	1.00	12.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		12.1
	mproving facilities at lusnabad Range	L.s	1.00	12.00	1.00	1,00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		12.0

SI. Item of Work		Total Outl	ay	2017	′ - 18	201	8 - 19	2019	- 20	2020	- 21	2021	1 - 22	2022	- 23	2023	- 24	2024	- 25	2025	- 26	2026	6 - 27	2027	- 28	2028	- 29	Gran	d Total
lo litem of Work	Unit	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23					22	23	24	25
Hiring of Computer Operator @ Rs.15000/-	No's	1.00	21.60	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80	1.00	1.80		21.60
19 Stationary and Computer Peripherals	Ls	1.00	12.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		12.00
Running and Maintenance of Vehicle of the DFO	No	1.00	36.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00	1.00	3.00		36.0
21 Propulsion Charges	Ls	1.00	12.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		12.0
Sub Total:			186.24		15.52		15.52		15.52		15.52		15.52		15.52		15.52		15.52		15.52		15.52		15.52		15.52		186.24
G.Total			2984.59		154.84		1085.11		198.28		107.33		116.51		126.61		137.71		149.93		163.37		178.16		194.42		212.31		2984.5

District Forest Officers SIDDIPET.

Chief Conservator of Forests/ Conservator of Forests, Medak Cir COMPREHENSIVE SCHEME FOR COMPENSATORY AFFORESTATION SCHEME FOR SIDDIPET DISTRICT OF MEDAK CIRCLE:DIVERSION OF 1407.439 Ha OF FOREST LAND IN SIDDIPET DIVISION FOR CONSTRUCTION OF CANAL, TUNNELS, LIFT SYSTEM AND RESERVOIRS INVOLVING IN KALESHWARAM PROJECT IN SIDDIPET DISTRICT OF TELANGANA STATE

#### 1) INTRODUCTION OF THE SCHEME:-

The Chief Engineer, Kaleshwaram Project, Hyderabad has submitted proposals for diversion of 1407.439 Ha forest land is proposed for Excavation of canals, tunnels, surge pool, delivery cistern, non-over flow dams (Sri Komaravelli Mallanna Sagar, Ananthagiri reservoir, Gandhamalla reservoir, Kondapochamma reservoir), LMC & RMC gravity canals to convey water to the command area spread over in Siddipet District – Packages No. 10, 12, 14 & 15 of Kaleswaram Project

The details of Sy.No wise as follows:-

Sl No	Mandal	Village	Survey No.	Area in Ha.
1	Akkannapet	Gandipally	97.00	22.7794
2	Bejjanki	Regulapally	403	57.9251
3	Cherial	Kadavergu	403	47.8675
4	Kondapak	Giraipally	836	31.6079
5	Husnabad	Mirzapur	171	9.377
6	Husnabad	Keshavapur	154	21.08
7	Koheda	Shanigaram-I	1348	31.59
8	Koheda	Shanigaram-II	1348	20.978
9	Koheda	Gundareddypally	72	61.0401
				304.245

The above mentioned Govt. Non-forest land is identified by the Officials of Chief Engineer, Kaleshwaram Project, Hyderabad and Forest Department. The CA land 304.245 Ha has been identified in the above mentioned area. The area is partially hilly and rocky, but having stunted forest growth equivalent to adjacent to forest land. The growth consists mainly of Narlinga, Cassiafistula, Moduga, Vepa, Pala, Tangedu, Danthe, Namalinara, Etha etc.

#### 2). SUITABILITY OF THE AREA:-

The area of 304.245 Ha of Non-forest land handed over for CA purpose against 304.245 only 140.245 Ha can be proposed for taking planting activities the rest of the land is partially hilly, Rocky areas, hence the SMC works is proposed like CPCT works, SMC works like Rock Fill Dams, Mini percolation tanks and Check dams.

#### 3). SCHEME IMPLEMENTATION AGENCY:-

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

For the above mentioned works for successful requires frequent inspections and close monitoring by the Forest Range Officers.

#### 4). MONITORING MECHANISM:-

The District Forest Officer, Siddipet and Chief Conservator of Forests, Medak Circle, Medak will be closely monitoring the implementation of CA scheme by regular inspection 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 (12 years) which includes advance works and raising of plantations and 10 years maintenance commencing from 2017-18 to 2028-29.

The details of proposed works are given below

6). BOUNDARY DEMARCATION: As a part of protection the following are proposed.

it is proposed to fix chain link fencing all around the periphery by User Agency and handed over the area Compensatory Afforestation before stage-II approval and wherever it is not possible to fixing of chainlink fencing due to availability of sheetrock's, dry stonewalls of 2.00 Mtr height shall be constructed to providing regular watch and ward as per provisions of FSR

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

The Government non-forest land 304. 245 Ha., which is identified for CA by the User Agency in Siddipet District in lieu of their Excavation of canals, tunnels, surge pool, delivery cistern, non-over flow dams (Sri Komaravelli Mallanna Sagar, Ananthagiri reservoir, Gandhamalla reservoir, Kondapochamma reservoir), LMC & RMC gravity canals. Out of which only 140.245 Ha is plantable and the rest of the land 164.00 Ha available is not fit for planting. Therefore it is decided to identify equivalent Addl. C.A. area in Degraded forest in Siddipet, Dubbak, Husnabad and Gajwel Ranges of Siddipet Division to take up the plantation works the details are as follows.

- 1) Advance operation
- 2) Raising year
- 3) 1st -10th year maintenance and all activities as proposed in the area
- 4) Nursery
- 5) Bund planting
- 6) SMC works
- 7) Protection aspect

The cost of the scheme is worked out adopting present FSR of 2016-17 Which is incorporated for watch and ward. The total year wise cost structure of the project to an extent of 304.245 Ha is shown in Annexures. The details of requirement of funds and year wise action Plan area shown in Annexures. Unit Cost of planting techniques are shown abstract of the Scheme is as follows.

District Forest Officer,
District Forest Officer
SIDDIPET.

### **ABSTRACT**

COMPREHENSIVE SCHEME FOR COMPENSATORY AFFORESTATION SCHEME FOR SIDDIPET DISTRICT OF MEDAK CIRCLE: DIVERSION OF 1407.439 Ha OF FOREST LAND IN SIDDIPET DIVISION FOR CONSTRUCTION OF CANAL, TUNNELS, LIFT SYSTEM AND RESERVOIRS INVOLVING IN KALESHWARAM PROJECT IN SIDDIPET DISTRICT OF TELANGANA STATE

SI.	Item of works	Total o	utlay
No.		Phy.	Fin. In lakhs
1	RAISING OF PLANTATION s		
1	Advance Operations	304.245 Ha.	85.32
2	Raising of Plantation	304.245 Ha.	565.59
3	1st year Maintenance of Plantation	304.245 Ha.	182.76
4	2 <sup>nd</sup> year Maintenance of Plantation	304.245 Ha.	91.81
5	3 <sup>rd</sup> year Maintenance of Plantation	304.245 Ha.	100.99
6	4 <sup>th</sup> year Maintenance of Plantation	304.245 Ha.	111.09
7	5th year Maintenance of Plantation	304.245 Ha.	122.29
8	6th year Maintenance of Plantation	304.245 Ha.	134.41
9	7th year Maintenance of Plantation	304.245 Ha.	147.85
10	8th year Maintenance of Plantation	304.245 Ha.	162.34
11	9 <sup>TH</sup> year maintenance of plantation	304.245 Ha.	178.90
12	10 <sup>th</sup> year maintenance of plantation	304.245 Ha.	196.79
11	SMC WORKS		
13	Construction of Check Dams	10 No's	80.00
14	Construction of Mini PT's	25 No's	50.00
15	Construction of Rock Fill Damns	20 No's	30.00
16	Fixing of Chain Link Fencing	33 Km's	495.00
17	Digging of Borewell	9 No's	36.00
18	Construction of watcher sheds	9 No's	27.00
III	Administrative Cost		84.358
19	Conveyance to the FSO for work supervision @ Rs.12,000/- per month	2 No's	34.56
20	Conveyance to the FRO for work supervision @ Rs.17,000/- per month	1 No's	24.48
21	Improvement facilities at Siddipet Range	1	12.00
22	Improvement facilities at Husnabad Range	1	12.00
23	Hiring of Technical Assistant	1	21.60
24	Hiring of Computer Operator	1	21.60
25	Stationary and Computer Peripherals	1	12.00
26	Running and Maintenance of Vehicle of the DFO	1	36.00
27	Propulsion Charges	1	12.00
	GRAND TOTA	L	2984.5904



ANNEXURE - D
Unit Cost for Advance works for Raising of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

Sl .No.	Code	Item of work	Units	Qty	Rate	Uni t	Amount
	11_	2	3	4	5	6	7
	<u> </u>	SEMI-MECHANICAL PLANTATION					
1	02.08.01	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 by end of December.	Plant	1	311.04	1	311.00
		Clearing unsalable unwanted jungle growth (Leaving all the tree species of good form particularly the hardwood tree species, spreding the cut material all over the site and burning the same twice till completely burnt the unsuitable area shall be excluded from the clearing operation and the expenditure incurred for effective area only					
	02.08.02	Sparse Jungle Growth (<10% ground area covered with jungle growth)	На	1	1728.81	i	1729.00
		Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrived encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work shall be carried out preferably through tender process.					
	02.08.03	Sparse Jungle Growth (<10% ground area covered with jungle growth)	На	1	4357.85	1	4358.00
		Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.					
		Sparse Jungle Growth (<10% ground area covered with jungle growth)	На	1	4640.11	1	4640.00

Sl .No.	Code	Item of work	Units	Qty	Rate	Uni t	Amount
		Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the effective area (excluding unsuitable patches) with heavy duty machinery fitted with 0.90 cum and above capacity bucket and levelling -ONLY PERMISSIBLE FOR CA AREA and written approval of Circle Head is needed and required budgetary provision has to find place in annual approved plan) and VIP planting area (minimum area should be more than 1 ha area). The uprootal and tilling works shall be done preferably through tender process and the execution of work should be completed befor end of March.				2	
5	02.08.11	Sparse Jungle Growth	На	1	14456.00	1	14456.00
0 1 2		Unit cost as per FS	SR 2016	6 - 17 :		-	25494.00
		Add 10% escalation on FSR 2016 - 17 (Unit cost f	or 2017	7 - 18):			28043.00
		Add 10% escalation on FSR 2017 - 18 (Unit cost f					30847.00
	M 790 =	Add 10% escalation on FSR 2018 - 19 (Unit cost for	or 2019	9 - 20):			33932.00
15		Add 10% escalation on FSR 2019 - 20 (Unit cost for	or 2020	) - 21):			37325.00

District Forsson Gircer SSIDDERET. ANNEXURE - D
Unit Cost for Raising of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

Г	SI Code			Ut	iit Rate p	er Ha	
-	Code	Item of work	Units	s Qty	Rate	Per	Amount
-	1 2	3	4	5	6	7	1 8
	}	PLANTING OPERATIONS DURING	3				
-		RAISING YEAR					•
ļ		Deep Ploughing the effective (excluding	3				
		unsuitable patches) plantation area across the	•			1	1
		slope to a depth of 30 cm with Heavy-duty	/	ł		1	ł
ľ	1	Tractor of 55 HP and above with Firm Mould			1	ſ	ŀ
Ì		Board (FMB) plough FORTILLED AREA) -	1		1		
	02.09.02	ii) Hard soils like gravel and morum	<del>                                     </del>	<del> </del> _		<u> </u>	
<del>                                     </del>	02.07.02	Removing congestion of root suckers and	Ha	1	2697.24	1_1_	2697
2	02.09.04	other uprooted material hindering the effective	11-	١.	050.40		
		ploughing	Ha	1	853.42	1	853
	<u> </u>	Allignment & Stacking including		<del> </del>	<del> </del>	ļ	<u> </u>
3	02.09.06		1	1666	66.74	100	1110
L		espacement = 1666 planting points	1103	1000	00.74	100	1112
4	02.09.09	Cost of preparation of stakes (0.45 M length)	ļ <del></del>	<del> </del>		_	
4	02.09.09	and transportation to site.	Nos	1666	47.30	100	788
		Digging of Pits in Ploughed Areas in June -		<u> </u>	<u> </u>		
]		July by adopting 50% of original rate of					
1		digging of pits of ordinary soil		i	l		
5	02.09.11						
-	02.09.11	b) 45 cm <sup>3</sup> pits	Each	1666	8.84	_1	14727
6	A/a	Cost of plants including transportation, loading				}	
"	7.74	and unloading charges upto the planting site	Each	1999	50.00	1	99960
<u> </u>		Internal transportation to planting points on				<b> </b>	
		head loads		ľ	]	- 1	
7	02.09.23	20 X 30 cm (8"X12") bag plants	Nos	1666	76.25	100	1070
	<del> </del>		1405	1000	70.23	100	1270
		PLANTING: No Eucalyptus, not even mixed					
ļ	As per the	with bamboo, shall be planted in CA area. Only indigenous secondary harwood species	ļ	1	}	1	
ļ	special	and its associates mixed with local NTFP				1	
	1 "	species shall be planted in CA areas. The	ĺ			- 1	
ĺ	S	minimum height of the planting stock to be		1	İ		ľ
	l I	planted 0.75 - 1m height (excluding the height		l		Ì	}
		of the bag)		ŀ	1	j	-
		Fortification of seedling with insecticide and		<del>-  </del>	<del></del>		
8		treating pits with SSP	Kgs	84	15.00	1	1260
	<del></del>	G F		1	1		

Sl	Code	Item of work	Units	Qty	Rate	Per	Amoun
1	2	3	4	5	6	7	8
9	02.09.24	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  Planting	Nos	1666	32.62	100	543
12	02.09.27	ii) 45 cm <sup>3</sup>	Nos	1666	363.37	100	6054
	0210>127	WEEDING & SOIL WORKING	1103	1000	303.37	100	0034
13	02.09.31	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)		1666	103.79	100	1729
14	02.09.32	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil atround the plant to 10cm wide but weeding that part of area by hand and formation of saucer in hard gravelly soils.	Nos	1666	545.08	100	9081
15	02.09.29	Replacement of Casualties: 20% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty replacement for further maintenance). The caualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.					
16		Pitting (50% of original rate)	Nos	333	4.42	1	1472
17		Internal transport of bag plants to planting	Nos	333	76.25	100	254
18		Planting bag plants	Nos	333	363.37	100	1210
19		Fertilizer Application for boosting growth  Cost of DAP @ 25 gm / planting point	Kgs	42	25.00	1	1041
20		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	Nos	1666	32.62	100	543
		Inter Ploughing			-		_

S	Code	Item of work	Units	Qty	Rate	Per	Amount
1	2	3	4	5	6	7	8
		Inter ploughing (during November) the effective (excluding unsuitable patches) plnatation area across the slope to a depth of 30 cm with heavy duty tractor of 55 HP and above with Firm Mould Board (FMB) Plough.(ii) Hard Soil.					
21	02.09.34	ii) Hard Gravelly Soil.	На	1	2810.70	1	2811
22	02.09.38	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-incharge 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.	Nos	1	2250.00	1	2250
23	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	На	1	3032.48	1	3032
24	01.03.51	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, electricty charges, running and maintainance charges of oil engines (Bills to be certified by ACF / DFO; and separate logbook for repair of motor or oil engine and store register for materials purchased.	A/a	5			949
		Unit cost as per FSR	2016 -	17:		_	153636
	Add	10% escalation on FSR 2016 - 17 (Unit cost for	2017 -	18):		$\neg +$	169000
	Add	10% escalation on FSR 2017 - 18 (Unit cost for	2018 -	19):			185900
	Add	10% escalation on FSR 2018 - 19 (Unit cost for 10% escalation on FSR 2018 - 20 (White cost for 10%)	2019 -	20):	-		204490
	Aud	10% escalation on FSR 2019 - 20 (Unit cost for	2020 -	21):			224939

District Forest Officer
Shapeet.

ANNEXURE - D
Unit Cost for 1<sup>st</sup> of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

CI		The state of the s	-	U	nit Rate pe	er Ha	
SI .No	Code	Item of work	Units	Qty	Rate	Per	Amou
1	2	3	4	5	6	7	8
1	02.10.1	Replacement of Casualties: 25% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty replacement for further maintenance). The caualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.					
2		Cost of plants	Nos	417	50.00	Each	20850
3		Digging of pits	Nos	417	4.42	Each	
4		Internal transport of bag plants to planting points on head loads.	Nos	417	76.25	100	318
- 5		Planting bag plants	Nos	417	363.37	100	1513
6	02.10.0	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	Nos	1666	103.79	100	1729
7	02.10.0	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	Nos	1666	545.08	100	9081
8	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before Augustend (before flowering) at any cost before interploughing.	На	1.00	3032.48	1	3032
9	02.10.0	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	На	1	2048	ī	2048
10	02.10.0 6	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	Nos	1666	103.19	100	1719
11	02.10.0	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.	Nos	1	3000	1	3000
		Unit cost as per	FSR 201	16 - 17 :			45132
		Add 10% escalation on FSR 2016 - 17 (Unit cos	t for 201	7 - 18):			49645
		Add 10% escalation on FSR 2017 - 18 (Unit cos	t for 201	8 - 19):			54610
		Add 10% escalation on FSR 2018 - 19 (Unit cos	t for 201	9 - 20):			60071
		Add 10% escalation on FSR 2019 - 20 (Unit cos	t for 202	0 - 21):		-	
		Add 10% escalation on FSR 2020 - 21 (Unit cos	t for 202	1 - 22)		$\rightarrow$	66078
		Add 10% escalation on FSR 2021 - 22 (Unit cos	t for 202	2 - 22).			72686
		Add 10% escalation on FSR 2022 - 23 (Unit cost	t for 202	2 - 23):			79955
	-	Add 10% escalation on FSR 2022 - 25 (Unit cos	t for 202	3 - 24):			87951
		Add 10% escalation on FSR 2023 - 24 (Unit cost	t for 202	4 - 25):			96746
		Add 10% accolation FCD 2024 25					
4,		Add 10% escalation on FSR 2024 - 25 (Unit cost	t for 202	5 - 26):	-		106421
		Add 10% escalation on FSR 2025 - 26 (Unit cost	for 202	6 - 27):			106421 117063
		Add 10% escalation on FSR 2024 - 25 (Unit cost Add 10% escalation on FSR 2025 - 26 (Unit cost Add 10% escalation on FSR 2026 - 27 (Unit cost Add 10% escalation on FSR 2027 - 28 (Unit cost	for 202	6 - 27):			

Districts Porest Officer
SSIDDIPET.

ANNEXURE - D
Unit Cost for 2<sup>nd</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

SI	Code		Units		Doda		Т
No	Coue	Item of work	Units	Qty	Rate	Per	Amoun
_	1	2	3	4	5	6	7
_	-	2 <sup>ND</sup> YEAR MAINTAINANCE					
1	02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	Nos	1666	103.79	100	1729
2	02.10.03	without damaging the plant during Nov - Dec	Nos	1666	545.08	100	9081
3	02.11.02	July-Aug)	Nos	1666	103.19	100	1719
4	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	На	1	2048	1	2048
5	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	На	1.00	3032.48	1	3032
		Cost of Protection: One Watcher is allowed for 10-30 ha.		34.		1845	
		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	d			0 4 x	
6	02.10.04	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.	Nos	1	3000.00	1	3000
.				4 1 -			
-		Unit cost as per FS					20610
_		Add 10% escalation on FSR 2016 - 17 (Unit cost f					22671
_		Add 10% escalation on FSR 2017 - 18 (Unit cost f					24938
		Add 10% escalation on FSR 2018 - 19 (Unit cost f					27432
		Add 10% escalation on FSR 2019 - 20 (Unit cost f					30175
	h k	Add 10% escalation on FSR 2020 - 21 (Unit cost f					33193
		Add 10% escalation on FSR 2021 - 22 (Unit cost fi	or 2022	- 23):			36512
	D	Add 10% escalation on FSR 2022 - 23 (Unit cost for					40163
	11 18 18 18 18 18 18 18 18 18 18 18 18 1	Add 10% escalation on FSR 2023 - 24 (Unit cost for	or 2024	- 25):			44179
-		Add 10% escalation on FSR 2024 - 25 (Unit cost for	or 2025	- 26):			48597
		Add 10% escalation on FSR 2025 - 26 (Unit cost for			-		53457
_		Add 10% escalation on FSR 2026 - 27 (Unit cost for	or 2027	- 28):			58803
-		Add 10% escalation on FSR 2027 - 28 (Unit cost fo	r 2028	- 29.):			64683

District Epres Peigr Officer Siddip Officer

ANNEXURE - D
Unit Cost for 3<sup>rd</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

				Un	iit Rate pe	r Ha	
SI	Code	Item of work	Units	Qty	Rate	Per	Amount
	1	2	3	4	5	6	7
		3 <sup>RD</sup> YEAR MAINTAINANCE					
1	02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	Nos	1666	103.79	100	1729
2	02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	Nos	1666	545.08	100	9081
3	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	Nos	1666	103.19	100	1719
4	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	На	1.00	3032.48	1	3032
5	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	На	1	2048	1	2048
6	02.10.04	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.	Nos	1	3000.00	1	3000
_		Unit cost as per F	SR 201	6 - 17 -			20610
	1	Add 10% escalation on FSR 2016 - 17 (Unit cost f	or 201	7 - 18)			20610 22671
10		Add 10% escalation on FSR 2017 - 18 (Unit cost f	or 201	8 - 19):		-	24938
		Add 10% escalation on FSR 2018 - 19 (Unit cost f	or 201	9 - 20):		-+	27432
		Add 10% escalation on FSR 2019 - 20 (Unit cost f	or 202	0 - 21):		$\rightarrow$	30175
	711	Add 10% escalation on FSR 2020 - 21 (Unit cost f	or 202	1 - 22):			33193
		Add 10% escalation on FSR 2021 - 22 (Unit cost for	or 202	2 - 23):			36512
		Add 10% escalation on FSR 2022 - 23 (Unit cost for	or 202.	3 - 24):			40163
4	- 17	Add 10% escalation on FSR 2023 - 24 (Unit cost for	or 2024	4 - 25):			44179
	F 10	Add 10% escalation on FSR 2024 - 25 (Unit cost for	or 2025	5 - 26):		-	48597
100	d	Add 10% escalation on FSR 2025 - 26 (Unit cost for	or 2020	6 - 27):		$\neg$	53457
120		Add 10% escalation on FSR 2026 - 27 (Unit cost for				-+	58803

District Forest Officer SUDPIPET.

ANNEXURE - D
Unit Cost for 4<sup>th</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

				Ui	iit Rate pe	r Ha	
SI	Code	Item of work	Units	Qty	Rate	Per	Amoun
	1	2	3	4	5	6	7
	3 1 2	4 <sup>TH</sup> YEAR MAINTAINANCE					
1	02.10.02	Circular wooding to a rediscreto 50 50	Nos	1666	103.79	100	1729
2	02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	Nos	1666	545.08	100	9081
3	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	Nos	1666	103.19	100	1719
4	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	На	1.00	3032.48	1	3032
5	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	На	1	2048	1	2048
5		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.	Nos	Ī	3000.00	1	3000
		Unit cost as per FS	SR 201	6 - 17 :			20610
		Add 10% escalation on FSR 2016 - 17 (Unit cost f	or 201'	7 - 18):		_	22671
,		Add 10% escalation on FSR 2017 - 18 (Unit cost f	or 2018	8 - 19):			24938
		Add 10% escalation on FSR 2018 - 19 (Unit cost for					27432
		Add 10% escalation on FSR 2019 - 20 (Unit cost for	or 2020	) - 21):			30175
		Add 10% escalation on FSR 2020 - 21 (Unit cost for	or 2021	- 22):			33193
_		Add 10% escalation on FSR 2021 - 22 (Unit cost for	or 2022	2 - 23):			36512
	1	Add 10% escalation on FSR 2022 - 23 (Unit cost for	or 2023	3 - 24):			40163
		Add 10% escalation on FSR 2023 - 24 (Unit cost for	or 2024	- 25):			44179
		Add 10% escalation on FSR 2024 - 25 (Unit cost for	r 2025	- 26):			48597
		Add 10% escalation on FSR 2025 - 26 (Unit cost for	r 2026	- 27):	2 22 101		53457
_		Add 10% escalation on FSR 2026 - 27 (Unit cost for	r 2027	- 28):			58803
		Add 10% escalation on FSR 2027 - 28 (Unit cost for	r 2028	- 29.);			64683

District Engale Officer SuppleT.

# ANNEXURE - D Unit Cost for 5<sup>th</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha Unit Rate per Ha

SI	Code	Item of work	Units	Qty	Rate	Per	Amoun
Nο	1	2	3	4	5	6	7
	-	5 <sup>TH</sup> YEAR MAINTAINANCE	3	-	1 3	0	-
1	02.10.02	Circular wooding to a radius of 0.50 m around the alast	Nos	1666	103.79	100	1729
2	02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec		1666	545.08	100	9081
3	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)		1666	103.19	100	1719
4	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	На	1.00	3032.48	1	3032
5	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.		1	2048	1	2048
		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				a * 32** 2	W
6	02.10.04	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.	Nos	1	3000.00	1	3000
		Unit cost as per F	SR 20	16 - 17 :			20610
16		Add 10% escalation on FSR 2016 - 17 (Unit cost					22671
	7	Add 10% escalation on FSR 2017 - 18 (Unit cost					24938
		Add 10% escalation on FSR 2018 - 19 (Unit cost					27432
_		Add 10% escalation on FSR 2019 - 20 (Unit cost					30175
	0,000	Add 10% escalation on FSR 2020 - 21 (Unit cost			ig.		33193
	11100	Add 10% escalation on FSR 2021 - 22 (Unit cost					36512
2		Add 10% escalation on FSR 2022 - 23 (Unit cost					40163
		Add 10% escalation on FSR 2023 - 24 (Unit cost					44179
		Add 10% escalation on FSR 2024 - 25 (Unit cost					48597
		Add 10% escalation on FSR 2025 - 26 (Unit cost					53457
		Add 10% escalation on FSR 2026 - 27 (Unit cost					58803
		Add 10% escalation on FSR 2027 - 28 (Unit cost for	or 202	8 - 29.):			64683

District Farest Officer SIMPUPET.

ANNEXURE - D
Unit Cost for 6<sup>th</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

				OI.	iit Kate pe	гпа	
SI	Code	Item of work	Units	Qty	Rate	Per	Amount
	1	2	3	4	5	6	7
	14	6 <sup>TH</sup> YEAR MAINTAINANCE					
1	02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	Nos	1666	103.79	100	1729
2	02.10.03	m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	Nos	1666	545.08	100	9081
3	02.11.02	Pruning of lower branch initials of Timber and NTFP	Nos	1666	103.19	100	1719
4	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	На	1.00	3032.48	1	3032
5	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	На	1	2048	1	2048
6	02.10.04	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.	Nos	İ	3000.00	1	3000
		Unit cost as per F	SR 201	6-17:		6 79 100 08 100 9 100 48 1	20610
	1	Add 10% escalation on FSR 2016 - 17 (Unit cost	for 201	1 666 103.79 100  1666 545.08 100  1666 103.19 100  1.00 3032.48 1  1 2048 1  1 3000.00 1  18-19: 19-20: 20-21: 21-22: 22-23: 23-24: 24-25: 27-28:		22671	
	6 <sup>TH</sup> YEAR MAINTAINANCE  02.10.02 Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)  Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec  Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)  Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.  Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.  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		24938				
- United			27432				
100		Add 10% escalation on FSR 2019 - 20 (Unit cost t	for 202	0 - 21):			30175
	100	Add 10% escalation on FSR 2020 - 21 (Unit cost f	or 202	1 - 22):			33193
_		Add 10% escalation on FSR 2021 - 22 (Unit cost f	or 202	2 - 23):			36512
		Add 10% escalation on FSR 2022 - 23 (Unit cost f	or 202	3 - 24):			40163
		Add 10% escalation on FSR 2023 - 24 (Unit cost f	or 202	4 - 25):			44179
		Add 10% escalation on FSR 2024 - 25 (Unit cost f	or 202	5 - 26):			48597
-							53457
-							58803
- 1		Add 10% escalation on FSR 2027 - 28 (Unit cost for	or 2028	- 29.):	2		64683

District Formate Officer

ANNEXURE - D
Unit Cost for 7<sup>th</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

SI No	Code	Item of work	Units	Qty	Rate	Per	Amoun
	1	2	3	4	5	6	7
		7 <sup>TH</sup> YEAR MAINTAINANCE					
1	02.10.02	Circular weeding to a radius of 0.50 m around the plant	Nos	1666	103.79	100	1729
2	02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec		1666	545.08	100	9081
3	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)		1666	103.19	100	1719
4	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.		1.00	3032.48	1	3032
5	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	На	1	2048	1	2048
5	02.10.04	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.	Nos	1	3000.00	1	3000
		Unit cost as per F	SR 201	16 - 17 :			20610
		Add 10% escalation on FSR 2016 - 17 (Unit cost	for 201	7 - 18):			22671
	1 1	Add 10% escalation on FSR 2017 - 18 (Unit cost	for 201	8 - 19):			24938
		Add 10% escalation on FSR 2018 - 19 (Unit cost					27432
_		Add 10% escalation on FSR 2019 - 20 (Unit cost			***		30175
		Add 10% escalation on FSR 2020 - 21 (Unit cost					33193
	S 1 Aug 1	Add 10% escalation on FSR 2021 - 22 (Unit cost					36512
_		Add 10% escalation on FSR 2022 - 23 (Unit cost					40163
_		Add 10% escalation on FSR 2023 - 24 (Unit cost					44179
		Add 10% escalation on FSR 2024 - 25 (Unit cost					48597
		Add 10% escalation on FSR 2025 - 26 (Unit cost					53457
		Add 10% escalation on FSR 2026 - 27 (Unit cost t					58803
		Add 10% escalation on FSR 2027 - 28 (Unit cost for	or 2028	3 - 29.):			64683

District Forest Officer

Siddipet

District Forest Officer SIDDIPET.

ANNEXURE - D
Unit Cost for 8<sup>th</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

					it Kate pe	114	
SI	Code	Item of work	Units	Qty	Rate	Per	Amount
	1	2	3	4	5	6	7
		7 <sup>TH</sup> YEAR MAINTAINANCE					
1	02.10.02	Circular weeding to a radius of 0.50 m around the plant	Nos	1666	103.79	100	1729
2	02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec		1666	545.08	100	9081
3	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	Nos	1666	103.19	100	1719
4	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	На	1.00	3032.48	1	3032
		Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and					
5	02.10.05	above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	2048	1	2048		
		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		21			
6	02.10.04	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	Nos	1	3000.00	1	3000
		principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.					
9.00		Unit cost as per F				-	20610
		Add 10% escalation on FSR 2016 - 17 (Unit cost	for 20	17 - 18):			22671
111		Add 10% escalation on FSR 2017 - 18 (Unit cost					24938
4		Add 10% escalation on FSR 2018 - 19 (Unit cost					27432
		Add 10% escalation on FSR 2019 - 20 (Unit cost					30175
		Add 10% escalation on FSR 2020 - 21 (Unit cost			10		33193
		Add 10% escalation on FSR 2021 - 22 (Unit cost	for 202	22 - 23):			36512
-		Add 10% escalation on FSR 2022 - 23 (Unit cost					40163
		Add 10% escalation on FSR 2023 - 24 (Unit cost					44179
		Add 10% escalation on FSR 2024 - 25 (Unit cost					48597
		Add 10% escalation on FSR 2025 - 26 (Unit cost					53457
	- 1	Add 10% escalation on FSR 2026 - 27 (Unit cost					58803
		Add 10% escalation on FSR 2027 - 28 (Unit cost f	or 202	8 - 29.):			64683

District Forest Officer

ANNEXURE - D
Unit Cost for 8<sup>th</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

		<u></u>			it Kate pe		
SI No	Code	Item of work	Units	Qty	Rate	Per	Amount
	1	2	3	4	5	6	7
		7 <sup>TH</sup> YEAR MAINTAINANCE					
1	02.10.02	Circular wanding to a radius of 0.50 m around the plant	Nos	1666	103.79	100	1729
2	02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec		1666	545.08	100	9081
3	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)		1666	103.19	100	1719
4	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.		1.00	3032.48	1	3032
5	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	На	1	2048	1	2048
6	02.10.04	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	Nos	1	3000.00	1	3000
		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.	e' (				
24,5	12	Unit cost as per F	SR 20	16 - 17 :			20610
- 1	20000000	Add 10% escalation on FSR 2016 - 17 (Unit cost					22671
		Add 10% escalation on FSR 2017 - 18 (Unit cost					24938
	* T	Add 10% escalation on FSR 2018 - 19 (Unit cost	for 201	9 - 20):			27432
		Add 10% escalation on FSR 2019 - 20 (Unit cost	for 202	20 - 21):			30175
		Add 10% escalation on FSR 2020 - 21 (Unit cost					33193
		Add 10% escalation on FSR 2021 - 22 (Unit cost					36512
	1.00	Add 10% escalation on FSR 2022 - 23 (Unit cost		/			40163
		Add 10% escalation on FSR 2023 - 24 (Unit cost					44179
1	A 1 229	Add 10% escalation on FSR 2024 - 25 (Unit cost	for 202	5 - 26):			48597
		Add 10% escalation on FSR 2025 - 26 (Unit cost	for 202	6 - 27):			53457
	10 to 10	Add 10% escalation on FSR 2026 - 27 (Unit cost	for 202	7 - 28):			58803

Descrict Forest Officer Supple 1.

ANNEXURE - D
Unit Cost for 8<sup>th</sup> year maintenance of N.T.S.H. Plantations 3m X 2m. (SMM) 1666 plants per Ha
Unit Rate per Ha

SI	Code	Item of work	Units	Qty	Rate	Per	Amount
IXIO	1	2	3	4	5	6	7
	F9 74.	7 <sup>TH</sup> YEAR MAINTAINANCE					
1	02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	Nos	1666	103.79	100	1729
2	02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	Nos	1666	545.08	100	9081
3	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	Nos	1666	103.19	100	1719
4	2.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	На	1.00	3032.48	1	3032
5	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	На	1	2048	1	2048
6	02.10.04	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.	Nos	I	3000.00	1	3000
		Unit cost as per F	SR 201	16 - 17 ·		$\rightarrow$	20610
1		Add 10% escalation on FSR 2016 - 17 (Unit cost					22671
	g Agent and the	Add 10% escalation on FSR 2017 - 18 (Unit cost				$\rightarrow$	24938
		Add 10% escalation on FSR 2018 - 19 (Unit cost	for 201	9 - 20):		-+	27432
	2 Per	Add 10% escalation on FSR 2019 - 20 (Unit cost	for 202	0 - 21):		-+	30175
	2 1 1 1 1 1	Add 10% escalation on FSR 2020 - 21 (Unit cost			15 12311 37		33193
1311		Add 10% escalation on FSR 2021 - 22 (Unit cost t					36512
	- 4	Add 10% escalation on FSR 2022 - 23 (Unit cost t					40163
9	25	Add 10% escalation on FSR 2023 - 24 (Unit cost f					44179
	25	Add 10% escalation on FSR 2024 - 25 (Unit cost f					48597
		Add 10% escalation on FSR 2025 - 26 (Unit cost 1					53457
		Add 10% escalation on FSR 2026 - 27 (Unit cost f	or 202	7 - 28):			58803

Dipunted Forest Officer
Stadiflet

### FIXING OF CHAINLINK FENCING AROUND THE CA LAND PROPOSED IN SIDDIPET AND HUSNABAD RANGES OF SIDDIPET DISTRICT.

	1103	WA.	ממ	D WAL	ues o	r SIVI	JIPEI	DISTRIC	1.		
Sl.	Description		N	o's	Lengt	Brea	Dept	Quantit	Unit	Rate	Total
No		<u> </u>		-	h	dth	h	У	Onic	Rate	Amount
1	2			3	4	5	6	7	8	9	10
1	Plain Cement Concrete (1:5:10) pr										
	For CC bed	1	х	1	1000	0.20	0.10	20.00	<u> </u>		
<u></u>	Pillars	1	x	335	0.45	0.45	0.45	30.53			
	Deduction Pillar Portion	1	х	335	0.45	0.20	0.10	-3.02			
								47.51	2551.29	cum	121217
2	Plain Cement concrete (M 2	20)	No	minal	Mix us	ing 20	mm				
	For CC bed	1	Х	1	1000	0.20	0.15	30.00			
	Pillars	1	X	335	0.45	0.45	0.45	30.53			
	Deduction Pillar Portion	1	х	335	0.45	0.20	0.15	-4.52			
						-		56.00	4151.55	cum	232505
3	Supply of M.S.Angles of siz	e 6.	5m	m x 6!	mm x	6mm					
	Weight of each angle of 3.1	0 m	lei	ngth o	f size 65mm						
	Total weight of 335 angles	is 3	s 3335x18.10=6063.50			6063.5	39.00	1	236477		
	Total length of angles requi	rec	40	)20x3.	10=12	462.00	)				
4	Supply of M.S.Flats/patties	(Fo	r h	old Fa	sts) of	size 50	Omm				
	Total length of patties reuir	ed	for	1000	no.of a	ngles (	@				
	Volume per m length of:										
	Weight for meter length (@	78	350	Kg/C	u.m)≃2	.36 Kg					
	Total Weight for 335x2.5=8	37.	.5le	ngth x	2.36=	1976.5	kgs				
	Ne	et Q	)ty			_		1976.5	39.00	1	77084
5	Supply of Nuts, Bolts and Wa							57	100.00	Kgs	5700
	Supply of binding wire incl	lud	ing	cost o	f the n	ateria	l,			-	
6	Supply of Hot dipped Galva	nis	ed	Iron C	hain lii	nk mes	h 8		<del></del>		
	Quantity required for 12450	) m	lei	ngth a	nd 2.50	00 m h	eight:	2500	239.00	Sqm	597500
	LS & Unforeseen items								-		24518
									TO	TAL	1295000
		_									_

District Forest Officer
Siddipet

## FIXING OF CHAINLINK FENCING AROUND THE CA LAND PROPOSED IN SIDDIPET AND HUSNABAD RANGES OF SIDDIPET DISTRICT.

Sl. No		1									
	Description		N	o's	Lengt	4		Quantit		Rate	Total
_		<b>↓</b>			h	th	h	У	0	, marc	Amount
1	2	<u>.                                    </u>		3	4	_ 5	6	7	8	9	10
						_					
1	Earth work excavation	on an	d de	positing	the ear	th on b	ank				
	For CC bed	1	Х	1	1000	0.20	0.10	20.00			
	Pillars	1	Х	335	0.45	0.45	0.45	30.53			
I I	Deduction Pillar Portion	1	х	335	0.45	0.20	0.10	-3.02			
								47.51	112.84	cum	5361
2	Plain Cement Concre	te (1:	5:10	)) prop r	nominal	mix		i			
	For CC bed	1	х	1	1000	0.20	0.10	20.00			
	Pillars	1	х	335	0.45	0.45	0.45	30.53		-	
	Deduction Pillar Portion	1	x	335	0.45	0.20	0.10	-3.02			_
								47.51	931.70	cum	44267
3	Plain Cement concret	te (M	20)	Nomina	l Mix us	ing 20n	nm				
	For CC bed	1	х	1	1000	0.20	0.15	30.00			
	Pillars	1	х	335	0.45	0.45	0.45	30.53			
	Deduction Pillar Portion	1	х	335	0.45	0.20	0.15	-4.52			
[								56.00	931.70	cum	52179
4	Labour Charges for fa	brica	tion	of Angle	es inclu	ding, cu	tting				
		1		72762			_	2500	24.00	Kgs	60000
	Add Ls for U/F items					<u>.</u>					13193
	Total	•									175000

District Forest Officer Siddipet