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# ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION PLANTATION UNDER HAPOLI FOREST DIVISION

Name of project : Construction of Nely-Dhaura road from 0.91 km to 34.124 km  
 User Agency : BRTF  
 Location of CA : Veny-Happa VFR  
 Area of CA : 89.30 ha  
 Wages rate (DL) : 330/-

		Unit	Qnt	Rate	Amount	
<b>A</b>	<b>Creation of Nursery</b>					
	Cost of seedlings @ 1100 Nos. / ha.	ha	98230	18	1768140	
<b>1</b>	<b>1ST YEAR OPERATION</b>					
	Survey & demarcation and preparation of map @ 4 mandays/ha.	ha	89.30	1332	118948	
<b>2</b>	<b>2ND YEAR OPERATION</b>					
	(i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt.	Rmt	5300	231.52	1227056	
	(ii) Maint. Barbed wire fencing @ 5% of erection cost in each year from 3rd year to 6th year Add.					
	Add 10% escalation value by multiplying factor:					
	1.20 for 3rd year					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
<b>3</b>	<b>Raising of seedlings for casualty replacement</b>	<b>No.</b>	<b>24558</b>	<b>18.0</b>	<b>442044</b>	
	3rd year 15%=165 Nos					
	4th year 10%= 110 Nos. Total= 275 Nos.					
<b>4</b>	<b>RAISING OF PLANTATION</b>					
	(i) Clearance of brush wood, planting lines & staking of debries @ 15 mandays/ha.	ha	89.30	53114	4743080	
	(ii) Alignment of pits & preparation of stakes, staking @ 10 mandays/ha					
	(iii) Digging of pits 30 Cm X 30 Cm X 30 Cm @ 22 mandays/ha					
	(iv) Preparation of thala by uprooting of debris by hoeing around pits @ 22 mandays/ha					
	(v) Carring of sapling to the planting site i/c planting of sapling @ 30 mandays (Area II) & 20 mandays (Area-I0/ha					
	(vi) Making of inspection path 1mtr wide @ 3 mandays/ha					
	(vii) Fire line cutting 3mtrs wide along the periphery @ 5 mandays/ha					
	(viii) Tending - 4 weeding @ 12 mandays/weeding/ha					
	Add 10% escalation value on total of item 4(i) to 4(viii)					

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<b>5</b>	<b>3RD YEAR OPERATION</b>	<b>ha</b>	<b>89.30</b>	<b>17982</b>	<b>1605793</b>	
	(i) Tending - 3 weeding @ 12 mandays/ha					
	(ii) Casualty replacement 15%					
	(iii) Maint. of inspection path @ 1 manday/ha					
	(iv) Maint. Of fireline @ 1 manday/ha					
	Add 20% escalation value on total of item 5(i) to 5(iv)					
<b>6</b>	<b>4TH YEAR OPERATION</b>	<b>ha</b>	<b>89.30</b>	<b>14286</b>	<b>1275740</b>	
	(i) Tending -2 weedings @ 12 mandays/weeding/ha					
	(ii) Casualty replacement 10% @ 7 mandays/ha					
	(iii) Maint. Of inspection path @ 1 manday/ha					
	(iv) Maint. of fireline @ 1 manday/weeding/ha					
	Add 30% escalation value on item 6(i) to 6(iv)					
<b>7</b>	<b>5TH YEAR OPERATION</b>	<b>ha</b>	<b>89.30</b>	<b>6527</b>	<b>582861</b>	
	(i) Tending - 1 weedings @ 12 mandays/weeding/ha					
	(ii) Maint. of inspection path @ 1 manday/ha					
	(iii) Maint. Of fire line @ 1 manday/ha					
	(iv) Add paid holiday @ 18.63% on item 7(i) to 7 (iii)					
	Add 40% escalation value on item 7(i) to 7(iv)					
<b>8</b>	<b>6TH YEAR OPERATION</b>	<b>ha</b>	<b>89.30</b>	<b>6993</b>	<b>624475</b>	
	(i) Tending - 1 weedings @ 12 mandays/weeding/ha					
	(ii) Maint. of inspection path @ 1 mnday/ ha.					
	(iii) Maint. of fireline @ 1 manday/ha.					
	Add 50% escalation value on item 8(i) to 8(iii)					
<b>9</b>	<b>7TH YEAR OPERATION</b>	<b>ha</b>	<b>89.30</b>	<b>2664</b>	<b>237895</b>	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 60% escalation value on total item 9(i)					
<b>10</b>	<b>8TH YEAR OPERATION</b>	<b>ha</b>	<b>89.30</b>	<b>2831</b>	<b>252808</b>	
	(i) Maint. of inspection path / fireline & climbing cutting @ 5 mandays/ha					
	Add 70% escalation value on item 10(i)					
	<b>Sub-Total</b>					
<b>11</b>	<b>9TH YEAR OPERATION</b>	<b>ha</b>	<b>89.30</b>	<b>2997</b>	<b>267632</b>	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 80% escalation value on total of item 11(i)					

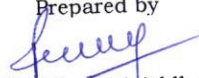


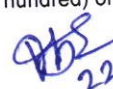
12	<b>10TH YEAR OPERATION</b>	ha	89.30	3164	282545	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 90% escalation value on total of item 12 (i)					
13	Wages for plantation watchman at the rate of Un/skilled labourer round the year for 10 year (one watchman for every 25 ha) @ 10000/- for Area-I & Rs.10500/- for Area-II per month. Add escalation value by multiplying factor 1st year.	No.	3	1740000	5220000	
	(M.F=1.1) for 2nd year					
	(M.F=1.2) for 3rd year					
	(M.F=1.3) for 4th year					
	(M.F=1.4) for 5th year					
	(M.F=1.5) for 6th year					
	(M.F=1.6) for 7th year					
	(M.F=1.7) for 8th year					
	(M.F=1.8) for 9th year					
	(M.F=1.9) for 10th year					
14	a) Const. of OBT labour shed (2 room) for workers at Plantation site subject to a minimum area of 15 ha and upto 25 ha beyond 25 ha one room to be added for every 13 ha or part thereof at proportionate cost.	No.	3.00	492000	1476000	
	b) Maint. Of OBT hut @ 25% of the const. Cost per year from 4th year to 6th year including escalation value by multiplying factor					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
15	a) Constr. Of Modified Improved Basha Type standard size quarter for every 50 ha.	No.	1.00	2439700	2439700	
	b) Maint. Of @ 20% of constr. Cost per year (from 2nd year to 9th year) including:					
	1.2 for 3rd year					
	1.3 for 4rd year					
	1.4 for 5rd year					
	1.5 for 6rd year					
	1.6 for 7rd year					
	1.7 for 8rd year					
	1.8 for 9rd year					
16	Approach foot track to plantation in area where necessary	Rmt	2000	6.57	13140	
17	Entry point activities at the rate of Rs.10,000/-per ha.	HA	89.30	14600	1303780	

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18	Monitoring, Supervision (POL, Maint. of vehicles, including TE etc.) @ 12% and Contingency @ 3% to meet up unseen expenditure i.e 15% on item No.1 to16 plus Nursery cost to meet the unforeseen expenditure Rs.23881637/-				3582246	
19	Provision for soil and moisture conservation structures (where needed) @ Rs. 7200/- per ha.	ha	89.30	7200	642960	
				<b>Total</b>	<b>28106843</b>	
					or say Rs.28106800	

(Rupees two crore eighty one lakh six thousand eight hundred) only

Prepared by  
  
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22.06.2023