

**Details of compensatory afforestation -**

**Estimate for raising tree growing species with 20% misc. seedlings (1 year old) and fenced with livehedges . Number of seedlings to be raised : 1600 per hectare.**

Sl. No.	Item of works	Mandays/ No./Kg./ m3	Material/Rate (Rs.)	Amount (Rs.)	Total Amount (Rs.)
<b>A</b>	<b>Advance Work (year-0)</b>				
<b>I.</b>	<b>Nursery works-labour component</b>				
1.	Cost of cleaning of nursery site, soil working and hoeing the beds 30 cm. deep, mixing cowdung and manure after making the soil pulverized the sowing seeds and spreading thatch over a bed of size 6.00 mtr. x 1.2 mtr. x 0.15 mtr. including proper alignment of beds complete	1	206.00	103.00	
2	Digging tube beds of size 6 mtr. x 1.2 mtr. x 0.15 mtr. including proper alignment of beds	1	206.00	103.00	
3	Preparation of polypot bed with bamboo edging and structure of raised bed and shed (bamboo & thatch) including carriage upto the site	4	206.00	824.00	
3	Making fencing around nursery with brushwood, bamboo etc.	1	206.00	206.00	
4	Filling up polythene tube with admixture of cowdung and good earth in 1:3 after breaking clods and pulverizing the same and arranging those properly in beds	6	206.00	1,236.00	
5	Pre-treatment of seeds, sowing of seeds in mother bed and dibbling in pots	4	206.00	824.00	
6	Pricking out seedlings from mother beds	1	206.00	206.00	
7	Sinking 90 cm. dia kancha well upto a depth of 15 mtrs. for watering the seedlings	4	206.00	824.00	
8	Watering, weeding, cleaning and watching the nursery (80% seedlings)	4	206.00	824.00	
9	Sorting, shifting and culling of seedlings 2-3 times	4	206.00	824.00	
	<b>Total labour component</b>	<b>30</b>			<b>6,180.00</b>
<b>II</b>	<b>Nursery work-material components</b>				
1	Supply of polythene tubes	1.5 kg.	220.00	330.00	
2	Supply of cowdung manure 0.3m3 per bed	L.S.		600.00	
3	Supply of good earth for the purpose of filling polypots including carriage to the site 0.9m3 per bed	L.S.		600.00	
4	Supply of watering can, thatch, bamboo, wire, ropes, nails, brushwoods etc.	L.S.		3,000.00	

5	Supply of seeds, stumps etc	L.S.		1,000.00	
6	Supply of hormone, micro-nutrients, insecticides etc.	L.S.		500.00	
7	Documentation/register etc.	L.S.		100.00	
	<b>Total nursery materials component</b>				<b>6,130.00</b>
<b>III</b>	<b>Maintenance of 1 year old seedlings (20%)</b>				
1	Sorting and shifting once in a month	8	206.00	1,648.00	
2	Watering the seedlings for entire period as and when required	15	206.00	3,090.00	
	<b>Total maintenance</b>				<b>4,738.00</b>
<b>IV</b>	<b>Soil work - Labour component</b>				
1	Survey and demarcation and cleaning of plantation area	4	206.00	824.00	
2	Alignment and stacking for contour trench and planting pits	2	206.00	412.00	
	<b>Total labour component</b>				<b>1,236.00</b>
	<b>Total year - 0</b>				<b>18,284.00</b>
<b>B</b>	<b>Creation Work (Year-1) Labour Component</b>				
<b>I</b>	<b>Creation Work - Labour Component</b>				
1	Digging, planting pits of size (60 cm + 45 cm)/2 x 45 cm. at a spacing of 2.5 mt. x 2.5 mt.	40	206.00	8,240.00	
2	Cutting box/contour trenches of size 45 cm. wide and 45 cm. deep throughout the area at a desired interval to conserve soil and moisture over 400 mtrs. including boundary	30	206.00	6,180.00	
3	Watering weeding and cleaning and watching the nursery (80% seedlings) and application of insecticides	8	206.00	1,648.00	
4	Sorting, shifting and culling of seedlings for 3 times	2	206.00	412.00	
5	Filling up planting pits with pulverized local earth including coal manuring if required	20	206.00	4,120.00	
6	Application of cow dung manure to the planting pits @ 10m3 per hectare	10	206.00	2,060.00	
7	Transplanting of seedlings including transportation from nursery to planting pits	20	206.00	4,120.00	
8	Application of insecticides in planting pits	2	206.00	412.00	
9	Inspection path for plantation	10	206.00	2,060.00	
10	Filling up vacancies during the creation year rainy season	5	206.00	1,030.00	
11	First time mulching, weeding and cleaning and application of manures/fertilizers	15	206.00	3,090.00	
12	2 <sup>nd</sup> time mulching, weeding, cleaning and application of insecticides	12	206.00	2,472.00	
13	Fireline maintenance by cleaning and burning debris	10	206.00	2,060.00	

	<b>Total Labour Component</b>				<b>37,904.00</b>
<b>II</b>	<b>Creation works - Materials Component</b>				
1	Supply of manures/fertilizers	80 kg.	60/-	4,800.00	
2	Supply of brush wood, bamboo, insecticides etc	L.S.		1,512.00	
	<b>Total materials component</b>				<b>6,298.00</b>
	<b>Total Year - 1</b>				<b>62,500.00</b>
<b>III</b>	<b>Year-2 Maintenance</b>			10,500.00	
<b>IV</b>	<b>Year-3 Maintenance</b>			6,000.00	
<b>V</b>	<b>Extra cost for babred wire fencing</b>			20,000.00	
	<b>Total Maintenance</b>				<b>36,500.00</b>
	<b>Grand Total</b>				<b>99,000.00</b>

As ESSAR Oil Ltd. requires afforestation of 9.31 ha. of land, the total cost will be  
 Rs. 99,000/- x 9.31 ha. = Rs. 9,21,690 or say (to round off)  
 Rs. 9,22,000/-  
 (Rupees Nine lakh twenty two thousand only)

- i) Total financial outlay for compensatory afforestation scheme : **Rs.9,22,000.00**
- ii) Certificate from competent authority regarding suitability of area identified for compensatory afforestation & from management point of view (to be signed by the concerned Deputy Conservator of Forests) –  

**Certificate will be furnished by the  
Divisional Forest Officer, Bankura (South) Division.**