

**DETAILED ESTIMATE FOR COMPENSATORY AFFORESTATION PLANTATION AT PANIDURIA VFR OVER 110.1 HECTARES AGAINST FOREST DIVERSION
PROPOSAL FOR DIVERSION OF FOREST LAND FOR CONSTRUCTION OF 132 KV T/L UNDER COMPREHENSIVE SCHEME FOR STRENGTHENING OF
TRANSMISSION AND DISTRIBUTION SYSTEM FROM KHONSA TO LONGDING UNDER KHONSA FOREST DIVISION**

Location :- PANIDURIA VFR under Khonsa Forerst Division

Forest Range :- Khonsa Forest Range

Seedling / Spacing :- 1100/ Hectare

Spacing:- 3Mx3M

Species :- Poma, Ajar,Khokon,Hollock,Jack,Sopa, Dhuna,Gamari, Tita Sopa, Arjun

Area :- 110.1 hectares.

Wage rate :- Rs. 333.00

Sl. No.	Item of Works	Mandays	Cost of Plantation	Area (ha)	Amount	Remarks
Creation of Nursery						
A	Cost of polypot saplings @1100 Nos. /hectare and Rs.18.00/sapling		19800	110.1	2179980.00	
	Sub total:-				2179980.00	
1st YEAR OPERATION						
1	Survey & demarcation and preparation of map @ 4 mandays/ha	4	1332	110.1	146653.20	
	Sub total:-				146653.20	
2nd YEAR OPERATION						
	i)Erection of barbed wire fence (5 strand) fencing per 100 Rmt. for 4500 m		18230		820350.00	As per CA norms and latest wages
	ii)Maint. Of Barbed wire fencing @ 5% of erection cost in each year from 3rd year to 6th year.					
	Add 10% escalation value by multiplying factor:					
2	1.20 for 3rd Year				49221.00	
	1.30 for 4th Year				53322.75	
	1.40 for 5th Year				57424.50	
	1.50 for 6th Year				61526.25	
	Sub Total:-				1041844.50	
	Raising of sapling for casualty replacement (per ha)					
3	3rd Year 15% = 165 Nos.		2970	110.1	326997.00	
	4th year 10% = 110 nos. Total = 275 nos.		1980	110.1	217998.00	
	Sub Total:-				544995.00	

RAISING OF PLANTATION					
4	i) Clearance of brushwood, debris, planting lines & stacking @ 15 Mandays per ha	15	4995	110.1	549949.50
	ii) Alignment of pits & preparation of stakes, staking @ 10 Mandays per ha	10	3330	110.1	366633.00
	iii) Digging of pits 30Cm x 30 Cm x 30 Cm @ 22 Mandays per ha	22	7326	110.1	806592.60
	iv) Preparation of thala by uprooting debris by hoeing around pits @ 22 Mandays per ha	22	7326	110.1	806592.60
	v) Carrying of saplings to the planting site i/c planting of seedlings @ 20 Mandays per ha	20	6660	110.1	733266.00
	vi) Making of inspection path 1 Mtr wide @ 3 Mandays per ha	3	999	110.1	109989.90
	vii) Fireline cutting 3 Mtr wide along the periphery @ 5 Mandays per ha	5	1665	110.1	183316.50
	viii) Tending-4 weedings @ 12 Mandays per weeding per ha.	48	15984	110.1	1759838.40
	Add 10% escalation value on total of item 4(i) to 4(viii)		4829	110.1	531672.90
	Sub Total:-				5847851.40
3RD YEAR OPERATION					
5	i) Tending - 3 weedings @ 12 Mandays/weeding/ha	36	11988	110.1	1319878.80
	ii) Casualty replacement 15%	7	2331	110.1	256643.10
	iii) Maint. Of inspection path @ 1 manday/ha.	1	333	110.1	36663.30
	iv) Maint. Of fireline @ 1 manday/ha.	1	333	110.1	36663.30
	Add 20% escalation value on total of item 5(i) to 5(iv)	9	2997	110.1	329969.70
	Sub Total				1979818.20
4TH YEAR OPERATION					
6	i) Tending - 2 weedings @ 12 Mandays/weeding/ha	24	7992	110.1	879919.20
	ii) Casualty replacement 10%	7	2331	110.1	256643.10
	iii) Maint. Of inspection path @ 1 manday/ha.	1	333	110.1	36663.30
	iv) Maint. Of fireline @ 1 manday/ha.	1	333	110.1	36663.30
	Add 30% escalation value on total of item 6(i) to 6(iv)	9.9	3297	110.1	362999.70
	Sub Total				1572888.60

As per CA norms
and latest wages

7	5TH YEAR OPERATION							
	i)Tending - 1 weedings @ 12 Mandays/weeding/ha	12	3996	110.1		439959.60		
	ii)Maint. Of inspection path @ 1 manday/ha.	1	1519	110.1		167241.90		
	iii)Maint. Of fireline @ 1 manday/ha.	1	247	110.1		27194.70		
	Add 40% escalation value on total of item 7(i) to 7(iii)	5.6	1865	110.1		205336.50		
	Sub Total:-					839732.70		
8	6TH YEAR OPERATION							
	i)Tending - 1 weedings @ 12 Mandays/weeding/ha	12	3996	110.1		439959.60		
	ii)Maint. Of inspection path @ 1 manday/ha.	1	333	110.1		36663.30		
	iii)Maint. Of fireline @ 1 manday/ha.	1	333	110.1		36663.30		
	Add 50% escalation value on total of item 8(i) to 8(iii)	7	2331	110.1		256643.10		
	Sub Total:-					769929.30		
9	7TH YEAR OPERATION							
	i)Maint. Of inspection path/Fireline and climber cutting @ 5 mandays/ha	5	1665	110.1		183316.50		
	Add 60% escalation value on total of item 9(i).	3	999	110.1		109989.90		
	Sub total					293306.40		
	8TH YEAR OPERATION							
10	i)Maint. Of inspection path/Fireline and climber cutting @ 5 mandays/ha	5	1665	110.1		183316.50		
	Add 70% escalation value on total of item 10(i).	3.5	1166	110.1		128376.60		
	Sub total					311693.10		
	9TH YEAR OPERATION							
	i)Maint. Of inspection path/Fireline and climber cutting @ 5 mandays/ha	5	1665	110.1		183316.50		
11	Add 80% escalation value on total of item 11(i).	4	1332	110.1		146653.20		
	Sub total					329969.70		
	10TH YEAR OPERATION							
	i)Maint. Of inspection path/Fireline and climber cutting @ 5 mandays/ha	5	1667	110.1		183536.70		
	Add 90% escalation value on total of item 12(i).	4.5	1499	110.1		165039.90		
12	Sub total							
						348576.60		

As per CA norms and latest wages

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13	Wages of plantation Watcher at the rate of Unskilled labourer round the year for 10 years (One P/Watcher for every 25 ha of area subject to a minimum area of 15 ha) @ Rs. 10000 per month	4Nos.	40000	12 months	480000.00
	Add escalation value by multiplying factor 1st years.				
	(M.F = 1.1) for 2nd year				528000.00
	(M.F = 1.2) for 3rd year				576000.00
	(M.F = 1.3) for 4th year				624000.00
	(M.F = 1.4) for 5th year				672000.00
	(M.F = 1.5) for 6th year				720000.00
	(M.F = 1.6) for 7th year				768000.00
	(M.F = 1.7) for 8th year				816000.00
	(M.F = 1.8) for 9th year				864000.00
	(M.F = 1.9) for 10th year				912000.00
	Sub Total:-				6960000.00
14					
15					
16	a) Construction of OBT labours shed (2room) for workers at plantation site subject to a minimum area of 15 ha and upto 25 hectere. Beyond 25 ha one room to be added for every 13 ha or part thereof at proportionate cost.	8 rooms	4	240000	960000.00
	b) Maintenance of OBT hut @ 25% of the construction cost per year from 4th year to 6th year including escalation value by multiplying factor.				
	1.3 for 4th year				312000.00
	1.4 for 5th year				336000.00
	1.5 for 6th year				360000.00
	Sub Total:-				
					1968000.00

As per CA norms and latest wages

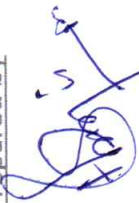
17	a) Construction of modified improved Basha (MIB) type standard size quarter for every 50 hectares.	2Nos.	2	787000	1574000.00
	b) Maintenance @ 20% of cost. Cost per year (from 3rd year to 9th year) including escalation value by multiplying factor				
	1.2 for the 3rd year				377760.00
	1.3 for the 4th year				409240.00
	1.4 for the 5th year				440720.00
	1.5 for the 6th year				472200.00
	1.6 for the 7th year				503680.00
	1.7 for the 8th year				535160.00
	1.8 for the 9th year				566640.00
	Sub Total:-				4879400.00
18	a) If CA area is 10 Km away from the nearest forest Office/establishment 1 (one) construction of SPT Beat Office (31.39 sqm) for area over 100 ha.	1 No.	1	786100	786100.00
	b) Maint. Of @ 10% of const. cost per year (from 4th year to 9th year) including:				
	1.3 for the 4th year				102193.00
	1.4 for the 5th year				110054.00
	1.5 for the 6th year				117915.00
	1.6 for the 7th year				125776.00
	1.7 for the 8th year				133637.00
	1.8 for the 9th year				141498.00
	Sub Total:-				1517173.00

As per CA norms
and latest wages

19									
20	Approach foot track to plantation area where necessary for 12600m	100 Rmt	126	657	82782.00	As per CA norms and latest wages			
21	Monitoring and Supervision (Pol, Maint. Of vehicles, Supervision including TE etc.) @ 12% and contingency @ 3% to meet up unseen expenditure i.e 15% on item No. 1 to 20 and nursery cost.		15%	31614593.7	4742189.00				
22	Entry Point Activities @ Rs 14,600/- per hectare.		14600	110.1	1607460.00				
23	Provision for soil and moisture conservation structures (site specific, if required) @ Rs. 7,200/- per hectare.		7200	110.1	792720.00				
	Total:-				38756962.70				
				Say	38757000.00				

(Rupees Three crore Eighty Seven lakh Fifty Seven thousand) only.

Prepared by



Range Forest Officer

Khonsa Forest Range, Khonsa

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