

**DETAILS ESTIMATE OF EXPENDITURE FOR ROADSIDE PLANTATION FOR RAISING
COMPENSATORY AFFORESTATION BY PLANTING 10(TEN) TIMES THE NUMBER OF TREES
FELLED i.e. 50X100 = 500 (AS PER NORMS) FOR THE PROPOSAL FOR CONSTRUCTION OF
RCC RESERVOIRS AT LAITKOR PROTECTED FOREST C/6**

No. of trees required to be felled = 50X10 = 500 Nos.

No. of beds to be raised = 2(two)

SI	Items of works	Man days	Rate P/bed
1	2	3	4
1	Preparation of standard size Nursery Bed complete in all respect using bamboo guard side rails on all sides	2	392
2	Cost of H.S Polythene bags (22.5cm x 15 cm – 150 gauge).	6	1176
	Filling up of polythene bags with mixture of earth, farm yard manure and sand (6:3:1) and arranging them in the nursery bed	2	392
	Cost of farm yard manure	3	588
	Cost of sand	2	392
	Cost of seeds of desired species	3	588
3	Providing goat proof fencing of required quality and specification by using hick bamboo as posts	5	980
	Cost for sowing/dibbling of seeds directly into polythene bags wherever necessary (2 to 3 seeds per bag) necessary	1.5	294
4	Cost of providing shade to nursery beds using locally available materials viz. thatch grass and bamboo, so as to protect the seedlings from direct sunlight, heavy rain or even frost in some areas.	3	588
5	Cost of weeding X 4 (four) times @ 1 manday/bed/weeding	4	784
6	Cost of watering X 6 (months) (November to April) @ 2 mandays/bed/month.	12	2352
7	Misc. expenses	0.5	98
	TOTAL A	44	8624

'B'	SECOND YEAR MAINTENANCE		
1	Cost for weeding 3 (three) times @ 1 manday/bed/weeding	3	588
2	Cost of watering X 6 (months) (November to	12	2352
	Misc. expenses	1	196
	Total B	16	3136
	GRAND TOTAL (A+B)	60	11760

SI no	Particulars of work	Mandays / ha	Rate per bed
A	FIRST YEAR CREATION		
1	Preparation of site for planting by clearing/cleaning of area in a circular manner of about 2 meters diameter	0.2	39.2
2	Pit digging of dimension :- Sides 0.30 X 0.30 X Depth 0.60m	0.1	19.6
3	Providing farm yard manure to be used @ 1 cubic meter per 100 plants shall be mixed up with the weathered earth at site	0.2	39.2
4	Cost of transportation of containers with tall seedlings from the centrally located nursery at Range/Beat office headquarter to the planting site and planting the seedlings after slicing open the bottom of the container (one third of the pit shall be filled with the mixture before planting)	0.2	39.2
5	Protection of the planted seedlings using tree guards made of local bamboo (box type guard of dimension 0.60 m X 0.60 m X 1.50 m in height of bamboo species or providing cylindrical shaped tree guard of dimension 0.60 X 1.50 meters in height)	2	392
6	Weeding and soil working around the planted seedlings including circular cutting of any jungle growth upto ground level around the enclosure X 2 times @ 0.25 mamday/plant/ weeding	0.5	98
	Miscellaneous expenses	0.2	39.2
	TOTAL - A	3.4	666.4

B	Second Year Maintenance		
1	Weeding and soil working around the planted seedlings including circular cutting of any jungle up to ground level around the enclosure X 2 times @ 0.25 manday/plant/weeding	0.5	98
	Miscellaneous expenses including provision for repairing of tree guard	0.3	58.8
	TOTAL - B	0.8	156.8
C	Third Year Maintenance		
	Weeding and soil working around the planted seedlings including circular cutting of any jungle up to ground level around the enclosure X 2 times @ 0.25 manday/plant/weeding	0.5	98
	Miscellaneous expenses including provision for repairing of tree guard	0.3	58.8
	TOTAL -C	0.8	156.8
	GRAND TOTAL (A+B+C)	5	980

(A) Abstract of Costing @ 196/- per mandays:-

1. Nursery Cost for 1(one) bed containing 300 Nos total seedlings:-

1 st year Creation	=	44 Mandays	=	Rs.8624/-
2 nd year Maintenance	=	16 Mandays	=	Rs.3136/-
TOTAL=		66 Mandays	=	Rs.11760/-

Plantation Cost for 1(one) Plant

1 st year Creation	=	3.4 Mandays	=	Rs. 666.4/-
2 nd year Maintenance	=	0.8 Mandays	=	Rs.156.8/-
3 rd year Maintenance	=	0.8 Mandays	=	Rs. 156.8/-
TOTAL=		5.4 Mandays	=	Rs.980/-

(B) Cost Analysis for 1 Km of roadside plantation (500 Nos of Plants) @ 2 Nos Nursery Beds

1. 1st Year (Nursery) Cost

Cost of Seedlings (44X2Beds=88 Mandays) = 17248/-

2. 2nd Year (Nursery) Cost

Cost of Seedlings (16X2Beds=32 Mandays) = 6272/-

3. 3rd Year (Plantation Cost)

1st Year Creation (3.4X500 Plants=1700 Mandays) = 333200/-

4. 4th Year (Plantation) Cost

2nd Year Maintenance (0.8X500 Plants =400 Mandays) = 78400/-

5. 5th Year (Plantation) Cost

3rd Year Maintenance (0.8X500 Plants =400 Mandays) = 78400/-

GRAND TOTAL (1+2+3+4+5) = 5, 13,520/-

Add 15% escalation = 77,028/-

= 5, 90,548/-

(Rupees Five Lakhs Ninety Thousand Five Hundred Forty Eight) only


Divisional Forest Officer
East Khasi Hills
&
Ri-Bhoi (T) Division
Shillong