

Area of 0.97 hect of forest land for underground sewerage pipe line from Nabha road to main Disposal works Adambal road Malerkotla (Lisara Drain RD229-238 R/s)
 Forest Division & Distt- Sangrur.

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Wage Rate : Rs. 328

Plantation Model For Standard Plantation under Compensatory Afforestation
Plants Per Hectare : 1000 Nos.

Sr. No.	Name of Work	Unit	Qty.	Unit Cost (In Rs.)	Amount
Nursery					
	Nursery cost of raising plants	1100	1100	20.00	22000.00
A Soil Work					
1	Site / Jungle Clearance (25%)	Ha.	0.5	5367.22	2683.61
2	Alignment & Dagbaling	Ha.	1	984.00	984.00
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	101.38	10138.00
5	Kana Stubbing 25%	Ha.	0.25	26836.00	6709.00
B Plantation Work					
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	2747.00	2060.25
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	550.00	6050.00
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 No.	1100	196.80	2164.80
4	i) Carriage from site to site	100 No.	1000	131.20	1312.00
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	984.00	9840.00
5	Spot Irrigation (1000 Plants)	100 No.	1000	205.00	2050.00
6	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
7	Application of Fertilizers (2 Times)	100 No.	1000	41.00	410.00
8	Weeding & Hoeing 3 Times	100 No.	3000	357.52	10725.60
9	Hand Watering (12 Times)	100 No.	12000	205.00	24600.00
10	Replanting of Plants 10%	100 No.	100	579.11	579.11
11	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
12	Covering (25% plants) of plants	100 No.	250	295.20	738.00
13	Uncovering of plants	100 No.	250	32.80	82.00
14	Restubbing of Kana (1 Time)		0.25	26836.30	6709.08
15	Laying out & fixing of Barbed Wire	L/s	1		7872.00
16	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	8528.00	5969.60
17	Material	L/s			5000.00
	i) Insecticides / Fertilizers	L/s			5000.00
	ii) POL	L/s			50000.00
	iii) Barbed Wire	L/s			186465.05
Sub Total					
Maintenance 1 Year					
1	Cost of raising plants for 30% replacement	1 No.	300	20.00	6000.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	59.63	1341.68
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	27.47	618.08
4	Loading & Unloading of Plants	1 No.	300	2.46	738.00
5	Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.)	100 No.	1	196.20	196.20
6	Spreading of plants pit to pit	100 No.	165	131.20	216.48
7	Re-Planting to plants	100 No.	165	329.08	542.98
8	Spot Irrigation	100 No.	165	205.00	338.25
9	Weeding & Hoeing (Three)	100 No.	3000	357.52	10725.60
10	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
11	Application of Fertilizers (2 Times)	100 No.	1000	41.00	410.00
12	Hand Watering (6 Times)	100 No.	6000	357.52	21451.20
13	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
14	Restubbing of Kana	Per Ha.	0.25	26836.00	6709.00

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				5969.60
15	Watch & Ward for every 10 Ha. (10 Months)	Man Year	1/10 Man Yr.	8528.00
16	Repair of Barbed Wire	L/s		5000.00
17	POL & Machinery	L/s		5000.00
18	Material and Supply	L/s		5000.00
	Sub Total			73045.06
	2nd Year Maintenance			
1	Cost of raising plants for 15% replacement	1 No.	150	20.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	21.6	59.63
3	Refilling of pits with earth in other soils 150x 0.60 x 0.60 x 0.40	1 m3	21.6	27.47
4	Loading & Unloading of Plants	1 No.	75	2.46
5	Carriage of Plants Wastage = 75 avg. distance upto 10 Km.)	500 No.	1	196.20
6	Spreading of plants pit to pit	100 No.	75	131.20
7	Re-Planting to plants	100 No.	75	229.09
8	Spot Irrigation	100 No.	75	205.00
9	Weeding & Hoeing (Twice)	100 No.	2000	357.52
10	Hand Watering (5 Times)	100 No.	5000	205.00
11	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00
12	Pruning to Plants	100 No.	100	387.61
		Man Year	1/10 Man Yr.	8528.00
13	Watch & Ward for every 10 Ha.	L/s		5000.00
14	Repair of Barbed Wire	L/s		5000.00
15	POL & Machinery	L/s		5000.00
18	Material and Supply			45880.96
	Sub Total			
	3rd Year Maintenance			
1	Cost of raising plants for 10% replacement	1 No.	100	20.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	5963.00
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	7.5	27.47
4	Loading & Unloading of Plants	1 No.	100	2.46
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	100	1.00
6	Spreading of plants pit to pit	100 No.	100	131.20
7	Re-Planting to plants	100 No.	100	229.09
8	Spot Irrigation	100 No.	100	205.00
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52
10	Hand Watering (8 Times)	100 No.	5000	205.00
11	Pruning to Plants 20%	100 No.	200	387.61
		Man Year	1/10 Man Yr.	8528.00
12	Watch & Ward for every 10 Ha.	L/s		5000.00
13	Repair of Barbed Wire	L/s		5000.00
14	POL & Machinery	L/s		5000.00
15	Material and Supply			42683.63
	Sub Total			
	4th Year Maintenance			
1	Cost of raising plants for 5% replacement	1 No.	50	20.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	5963.00
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	27.47
4	Loading & Unloading of Plants	1 No.	50	2.46
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	1.00
6	Spreading of plants pit to pit	100 No.	50	131.20
7	Re-Planting to plants	100 No.	50	229.09
8	Spot Irrigation	100 No.	50	205.00
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52
10	Hand Watering (8 Times)	100 No.	4000	205.00


 Divisional Forest Officer,
 Sangrur Forest Division,
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		100 No.	300	387.61	1162.83
	Pruning to Plants 30%	Man Year	1/10 Man Yr.	8528.00	5969.60
12	Watch & Ward for every 10 Ha.	L/s			5000.00
13	Repair of Barbed Wire	L/s			5000.00
14	POL & Machinery	L/s			5000.00
15	Material and Supply				39565.59
	Sub Total				
	5th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				
	6th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				
	7th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				
	8th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				
	9th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				
	10th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				
	Total				423457.89
	Over Head expenses 5%				21172.89
	Wage Enhancement @ 10%				42345.79
	G. Total				486976.58
	Or Say				486977

Cost of Compensatory Afforestation per Ha. For 7-10 Year
Rs. 486977 per Ha. = $486977 \times 2.43 = 1183354/-$
Net Present Value per Ha. @ Rs. 803000 $\times 0.97 = 778910/-$
Grand Total = 1962264/-

Gokul
Divisional Forest Officer,
Sangrur Forest Division,
Sangrur
SANGRUR