

Wage Rate : Rs. 368.05

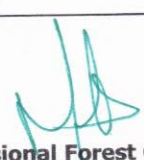
Plantation Model For Standard Plantation under Compensatory Afforestation

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 | 22.45 | 24689.50 |
| A | Soil Work | | | | |
| 1 | Site / Jungle Clearance (25%) | Ha. | 0.5 | 6022.60 | 3011.30 |
| 2 | Alignment & Dagbaling | Ha. | 1 | 1104.20 | 1104.20 |
| 3 | Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m | 1 M3 | 100 | 113.75 | 11375.40 |
| 5 | Kana Stubbing 25% | Ha. | 0.25 | 30112.80 | 7528.20 |
| B | Plantation Work | | | | |
| 1 | Refilling of Pits 1000x0.5mx0.5mx0.3 | 100 cum | 75 | 3082.40 | 2311.80 |
| 2 | Loading & Unloading of Plants (1000+10% Wastage=1100) | 100 No. | 1100 | 617.16 | 6788.76 |
| 3 | Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.) | 100 No. | 1100 | 220.83 | 2429.13 |
| 4 | i) Carriage from site to site | 100 No. | 1000 | 147.22 | 1472.20 |
| | ii) Planting of Plants (1000 No. including 10% replacement) | 100 No. | 1000 | 1104.15 | 11041.50 |
| 5 | Spot Irrigation (1000 Plants) | 100 No. | 1000 | 230.03 | 2300.30 |
| 6 | Application of Insecticide (2 Times) | 100 No. | 2000 | 46.01 | 920.10 |
| 7 | Application of Fertilizers (2 Times) | 100 No. | 2000 | 46.01 | 920.10 |
| 8 | Weeding & Hoeing 3 Times | 100 No. | 3000 | 401.18 | 12035.25 |
| 9 | Hand Watering (12 Times) | 100 No. | 12000 | 230.03 | 27603.84 |
| 10 | Replanting of Plants 10% | 100 No. | 100 | 649.80 | 649.80 |
| 11 | Rejungle Clearance (2 Times) | Per Ha. | 1 | 2668.40 | 2668.40 |
| 12 | Covering (25% plants) of plants | 100 No. | 250 | 331.22 | 828.1 |
| 13 | Uncovering of plants | 100 No. | 250 | 36.82 | 92 |
| 14 | Restubbing of Kana (1 Time) | | 0.25 | 30113.10 | 7528.3 |
| 15 | Laying out & fixing of Barbed Wire | L/s | | | 8832.20 |
| 16 | Watch & Ward for every 10 Ha. (7 Months) | Man Year | 1 Man 7 Month | 9569.30 | 6698.5 |
| 17 | Material | | | | |
| | i) Insecticides / Fertilizers | L/s | | | 5610.518 |
| | ii) POL | L/s | | | 5610.518 |
| | iii) Barbed Wire | L/s | | | 56105.183 |
| | Sub Total | | | | 210155.08 |
| | Maintenance 1 Year | | | | |
| 1 | Cost of raising plants for 30% replacement | 1 No. | 300 | 22.45 | 6733.50 |
| 2 | Reopening of Pits 300 x 0.50 x 0.50 x 0.30 | 1 m3 | 21.5 | 66.91 | 1505.5 |
| 3 | Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30 | 1 m3 | 21.5 | 30.83 | 693.7 |
| 4 | Loading & Unloading of Plants | 1 No. | 330 | 2.8 | 910.80 |
| 5 | Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.) | 100 No. | 330 | 220.2 | 726.50 |
| 6 | Spreading of plants pit to pit | 100 No. | 300 | 147.2 | 441.7 |
| 7 | Re-Planting to plants | 100 No. | 300 | 369.26 | 1107.8 |
| 8 | Spot Irrigation | 100 No. | 300 | 230.00 | 690.01 |
| 9 | Weeding & Hoeing (Three) | 100 No. | 3000 | 401.2 | 12035.2 |
| 10 | Application of Insecticide (2 Times) | 100 No. | 2000 | 46.01 | 920.1 |
| 11 | Application of Fertilizers (2 Times) | 100 No. | 2000 | 46.01 | 920.1 |
| 12 | Hand Watering (6 Times) | 100 No. | 6000 | 401.2 | 24070.5 |
| 13 | Rejungle Clearance (2 Times) | Per Ha. | 1 | 2668.40 | 2668.40 |
| 14 | Restubbing of Kana | Per Ha. | 0.25 | 30112.80 | 7528.20 |
| 15 | Watch & Ward for every 10 Ha. (7 Months) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.5 |
| 16 | Repair of Barbed Wire | L/s | | | 5610.5 |

| | | | | | |
|----|--|----------|--------------|---------|-----------------|
| 17 | POL & Machinery | L/s | | | 5610.5 |
| 18 | Material and Supply | L/s | | | 5610.5 |
| | Sub Total | | | | 84482.04 |
| | 2nd Year Maintenance | | | | |
| 1 | Cost of raising plants for 15% replacement | 1 No. | 150 | 22.4 | 3366.7 |
| 2 | Reopening of Pits 150 x 0.50 x 0.50 x 0.40 | 1 m3 | 15 | 66.91 | 1003.7 |
| 3 | Refilling of pits with earth in other soils 150x 0.50 x 0.50 x 0.40 | 1 m3 | 11.25 | 30.83 | 346.8 |
| 4 | Loading & Unloading of Plants | 1 No. | 165 | 2.8 | 455.4 |
| 5 | Carriage of Plants (150+10% wastage=165avg distance upto 10 Km.) | 100 No. | 165 | 220.2 | 363.2 |
| 6 | Spreading of plants pit to pit | 100 No. | 150 | 147.2 | 220.8 |
| 7 | Re-Planting to plants | 100 No. | 150 | 257.10 | 385.7 |
| 8 | Spot Irrigation | 100 No. | 150 | 230.00 | 345.0 |
| 9 | Weeding & Hoeing (Twice) | 100 No. | 2000 | 401.2 | 8023.5 |
| 10 | Hand Watering (5 Times) | 100 No. | 5000 | 230 | 11501.6 |
| 11 | Rejungle Clearance (2 Times) | Per Ha. | 1 | 2668.40 | 2668.4 |
| 12 | Pruning to Plants | 100 No. | 100 | 434.90 | 434.9 |
| 13 | Watch & Ward for every 10 Ha. (7 Months) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.5 |
| 14 | Repair of Barbed Wire | L/s | | | 5610.5 |
| 15 | POL & Machinery | L/s | | | 5610.5 |
| 18 | Material and Supply | L/s | | | 5610.5 |
| | Sub Total | | | | 52645.8 |
| | 3rd Year Maintenance | | | | |
| 1 | Cost of raising plants for 10% replacement | 1 No. | 100 | 22.45 | 2244.5 |
| 2 | Reopening of Pits 100 x 0.50 x 0.50 x 0.40 | 1 m3 | 10 | 6691.10 | 669.1 |
| 3 | Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30 | 1 m3 | 7.5 | 30.83 | 231.2 |
| 4 | Loading & Unloading of Plants | 1 No. | 110 | 2.8 | 303.6 |
| 5 | Carriage of Plants 110 avg. distance upto 10 | 100 No. | 110 | 1.13 | 124.3 |
| 6 | Spreading of plants pit to pit | 100 No. | 100 | 147.20 | 147.2 |
| 7 | Re-Planting to plants | 100 No. | 100 | 257.10 | 257.1 |
| 8 | Spot Irrigation | 100 No. | 100 | 230.00 | 230.0 |
| 9 | Weeding & Hoeing (thrice) | 100 No. | 3000 | 401.2 | 12035.2 |
| 10 | Hand Watering (8 Times) | 100 No. | 8000 | 230 | 18402.4 |
| 11 | Pruning to Plants 20% | 100 No. | 200 | 434.92 | 869.8 |
| 12 | Watch & Ward for every 10 Ha. (7 Months) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.5 |
| 13 | Repair of Barbed Wire | L/s | | | 5610.5 |
| 14 | POL & Machinery | L/s | | | 5610.5 |
| 15 | Material and Supply | L/s | | | 5610.5 |
| | Sub Total | | | | 59044.46 |
| | 4th Year Maintenance | | | | |
| 1 | Cost of raising plants for 5% replacement | 1 No. | 50 | 22.45 | 1122.3 |
| 2 | Reopening of Pits 50 x 0.50 x 0.50 x 0.40 | 1 m3 | 5 | 6691.10 | 334.6 |
| 3 | Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30 | 1 m3 | 3.75 | 30.83 | 115.6 |
| 4 | Loading & Unloading of Plants | 1 No. | 55 | 2.8 | 151.8 |
| 5 | Carriage of Plants 50 avg. distance upto 10 Km.) | 100 No. | 55 | 1.13 | 62 |
| 6 | Spreading of plants pit to pit | 100 No. | 50 | 147.20 | 73.6 |
| 7 | Re-Planting to plants | 100 No. | 50 | 257.10 | 128.6 |
| 8 | Spot Irrigation | 100 No. | 50 | 230.00 | 115.0 |
| 9 | Weeding & Hoeing (thrice) | 100 No. | 3000 | 401.2 | 12035.2 |
| 10 | Hand Watering (8 Times) | 100 No. | 8000 | 230 | 18402.4 |
| 11 | Pruning to Plants 30% | 100 No. | 300 | 434.92 | 1304.8 |
| 12 | Watch & Ward for every 10 Ha. (7 Months) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.5 |

| | | | | | |
|--|--|----------|--------------|---------|-------------------|
| 13 | Repair of Barbed Wire | L/s | | | 5610.5 |
| 14 | POL & Machinery | L/s | | | 5610.5 |
| 15 | Material and Supply | L/s | | | 5610.5 |
| | Sub Total | | | | 57376 |
| 5th Year Maintenance | | | | | |
| 1 | Watch & Ward for every 10 Ha. (7 Motnts) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.50 |
| | Sub Total | | | | 6698.50 |
| 6th Year Maintenance | | | | | |
| 1 | Watch & Ward for every 10 Ha. (7 Motnts) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.50 |
| | Sub Total | | | | 6698.50 |
| 7th Year Maintenance | | | | | |
| 1 | Watch & Ward for every 10 Ha. (7 Motnts) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.50 |
| | Sub Total | | | | 6698.50 |
| 8th Year Maintenance | | | | | |
| 1 | Watch & Ward for every 10 Ha. (7 Motnts) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.50 |
| | Sub Total | | | | 6698.50 |
| 9th Year Maintenance | | | | | |
| 1 | Watch & Ward for every 10 Ha. (7 Motnts) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.50 |
| | Sub Total | | | | 6698.50 |
| 10th Year Maintenance | | | | | |
| 1 | Watch & Ward for every 10 Ha. (7 Motnts) | Man Year | 1/10 Man Yr. | 9569.30 | 6698.50 |
| | Sub Total | | | | 6698.50 |
| | Total | | | | 503895 |
| | Over Head expenses 5% | | | | 25195 |
| | Wage Enhancement @ 10% | | | | 50390 |
| | G. Total | | | | 579479 |
| | Or Say | | | | 5,79,479/- |
| Cost of Compensatory Afforestation per Ha. For 7-10 Year | | | | | |
| Rs. 579479 per Ha.=579479X 0.100=57948/- | | | | | |
| Cost of Penal Compensatory Afforestation Per Ha. For 7-10 | | | | | |
| RS. Per Ha.= (579479 x 0.0038) x10 =22020/- | | | | | |
| Net Present value per Ha. @ Rs.9577080 x 0.00384=3679/- | | | | | |
| Cost of penal NPV for 15 MONTHS= 3679+12%=460 | | | | | |
| Entry Point Activity (10% cost of CA) =5795/- | | | | | |
| Grand Total =94047/- | | | | | |


 Divisional Forest Officer,
 Sangrur Forest Division,
 Sangrur