

29

Diversion of 0.0116 ha. of forest land for approach road to Residential Colony Named Empire Estate at Kala Ghanupur Sub-Urban, Opp. Dera Radha Swami, Ram Tirath Road on Amritsar – Ramtirath Road Tehsil & Distt. Amritsar.

# PENAL CA

Wage Rate: 328/-

Plants Per ha. 1000 No.

## Plantation Model for Standard Plantation under Compensatory Afforestation

| Advance Work and Plantation |                                                                     |                 |                  |                    |                  |
|-----------------------------|---------------------------------------------------------------------|-----------------|------------------|--------------------|------------------|
|                             | Name of Work                                                        | Unit            | Qty              | Unit Cost (In Rs.) | Total Amt        |
|                             | <b>Nursery</b>                                                      |                 |                  |                    |                  |
|                             | Cost of raising plants                                              | 1.100           | 1100             | 20.00              | 22000.00         |
| <b>A</b>                    | <b>Soil Works</b>                                                   |                 |                  |                    |                  |
| 1                           | Site /Jungle Clearance (50%)                                        | Ha.             | 0.50             | 5367.22            | 2683.61          |
| 2                           | Alignment & Dagbailing                                              | Ha.             | 1                | 984.00             | 984.00           |
| 3                           | Earth Work-<br>(a) Digging of Pits 1000x 0.5m x0.5m x0.4m           | 1M <sup>3</sup> | 100              | 101.38             | 10138.00         |
| 4                           | Kana Stubbing 25%                                                   | Ha.             | 0.25             | 26836.00           | 6709.00          |
| <b>B</b>                    | <b>Plantation Work</b>                                              |                 |                  |                    |                  |
| 1                           | a) Refilling of Pits 1000 x 0.5m x0.5m x0.4m                        | 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             |                  |                    | 7872.00          |
| 16                          | Watch & Ward for every 10 Ha. (7 months)                            | Man year        | 1Man<br>7 Month  | 8528.00            | 5969.60          |
| 17                          | Material                                                            |                 |                  |                    |                  |
|                             | i) Insecticides/Fertilizers                                         | L/s             |                  |                    | 5000.00          |
|                             | ii) POL                                                             | L/s             |                  |                    | 5000.00          |
|                             | iii) Barbed Wire& fencing                                           | L/s             |                  |                    | 50000.00         |
|                             |                                                                     |                 | <b>Sub Total</b> |                    | <b>186465.05</b> |

Surjit Singh Sahota  
I.F.S.  
Divisional Forest Officer

30

| Maintenance I 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     | 21.60            | 59.63    | 1341.68         |
| 3                    | Refilling of pits with earth in other soils 300                      | 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 Tall Plants                                              | 100 No   | 165              | 329.08   | 542.98          |
| 8                    | Spot Irrigation                                                      | 100 No.  | 165              | 205.00   | 338.25          |
| 9                    | Weeding & Hoeing (thrice)                                            | 100 No   | 3000             | 357.52   | 10725.60        |
| 10                   | App. Of Fertilizer (two times)                                       | 100 No   | 1000             | 41.00    | 410.00          |
| 11                   | App. Of Insecticide (two 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.  | 1.00             | 2378.00  | 2378.00         |
| 14                   | Restubbing of Kana                                                   | Per Ha.  | 0.25             | 26836.00 | 6709.00         |
| 15                   | Watch & Ward for every 10 Ha. (10 months)                            | Man year | 1/10 Man yr.     | 8528.00  | 5969.60         |
| 16                   | Repair of Barbed wire                                                | L/s      |                  |          | 5000.00         |
| 17                   | POL & Machinery                                                      | L/s      |                  |          | 5000.00         |
| 18                   | Material and supply                                                  | L/s      |                  |          | 5000.00         |
|                      |                                                                      |          | <b>Sub Total</b> |          | <b>73045.07</b> |
| Maintenance II Year  |                                                                      |          |                  |          |                 |
| 1                    | Cost of raising plants for 15% replacement                           | No.      | 150              | 20.00    | 3000.00         |
| 2                    | Reopening of Pits 250 x 0.60 x 0.60 x 0.40                           | 1 m3     | 21.6             | 59.63    | 644.00          |
| 3                    | Refilling of pits with earth in other soils 250 x 0.60 x 0.60 x 0.40 | 1 m3     | 21.6             | 27.47    | 296.68          |
| 4                    | Loading & Unloading of Plants                                        | 1 No.    | 75               | 2.46     | 184.50          |
| 5                    | Carriage of Plants = 75 avg. distance upto 10 km.)                   | 100 No   | 1                | 196.20   | 196.20          |
| 6                    | Spreading of plants pit to pit                                       | 100 No   | 75               | 131.20   | 98.40           |
| 7                    | Re-planting to tall plants                                           | 100 No   | 75               | 229.09   | 171.82          |
| 8                    | Spot Irrigation                                                      | 100 No.  | 75               | 205.00   | 153.75          |
| 9                    | Weeding & Hoeing (twice)                                             | 100 No   | 2000             | 357.52   | 7150.40         |
| 10                   | Hand Watering 5 Times                                                | 100 No   | 500              | 205.00   | 10250.00        |
| 11                   | Rejungle Clearance ( 2 times)                                        | Per Ha.  | 1.00             | 2378.00  | 2378.00         |
| 12                   | Pruning to plants                                                    | 100 No.  | 100              | 387.61   | 387.61          |
| 14                   | Watch & Ward for every 10 Ha.                                        | Man year | 1/10 Man yr.     | 8528.00  | 5969.60         |
| 15                   | Repair of Barbed wire                                                | L/s      |                  |          | 5000.00         |
| 16                   | POL & Machinery                                                      | L/s      |                  |          | 5000.00         |
| 17                   | Material and supply                                                  | L/s      |                  |          | 5000.00         |
|                      |                                                                      |          | <b>Sub Total</b> |          | <b>45880.96</b> |
| Maintenance III Year |                                                                      |          |                  |          |                 |
| 1                    | Cost of raising plants for 10% replacement                           | 1 No.    | 100              | 20.00    | 2000.00         |

51

|                             |                                                                         |          |                  |         |                 |
|-----------------------------|-------------------------------------------------------------------------|----------|------------------|---------|-----------------|
| 2                           | Reopening of Pits 200 x 0.50 x 0.50 x 0.40                              | 1 m3     | 10               | 5963.00 | 429.34          |
| 3                           | Refilling of pits with earth in other soils<br>100 x 0.60 x 0.60 x 0.40 | 1 m3     | 7.5              | 27.47   | 197.78          |
| 4                           | Loading & Unloading of Plants                                           | 1 No.    | 100              | 2.46    | 246.00          |
| 5                           | Carriage of Plants 200 avg. distance upto 10 km.)                       | 100 No   | 100              | 1.00    | 100.00          |
| 6                           | Spreading of plants pit to pit                                          | 100 No   | 100              | 131.20  | 131.20          |
| 7                           | Re-planting to plants                                                   | 100 No   | 100              | 229.09  | 229.09          |
| 8                           | Spot Irrigation                                                         | 100 No.  | 100              | 205.00  | 205.00          |
| 9                           | Weeding & Hoeing (Twice)                                                | 100 No   | 2000             | 357.52  | 7150.40         |
| 10                          | Hand Watering (5 times)                                                 | 100 No   | 5000             | 205.00  | 10250.00        |
| 11                          | Pruning to plants 20%                                                   | 100 No.  | 200              | 387.61  | 775.22          |
| 12                          | Watch & Ward for every 10 Ha.                                           | Man year | 1/10 Man yr.     | 8528.00 | 5969.60         |
| 13                          | Repair of Barbed wire                                                   | L/s      |                  |         | 5000.00         |
| 14                          | POL & Machinery                                                         | L/s      |                  |         | 5000.00         |
| 15                          | Material and supply                                                     | L/s      |                  |         | 5000.00         |
|                             |                                                                         |          | <b>Sub Total</b> |         | <b>42683.63</b> |
| <b>Maintenance IV Year</b>  |                                                                         |          |                  |         |                 |
| 1                           | Cost of raising plants for 15% replacement                              | 1 No.    | 50               | 20.00   | 1000.00         |
| 2                           | Reopening of Pits 50 x 0.50 x 0.50 x 0.40                               | 1 m3     | 5                | 5963.00 | 429.34          |
| 3                           | Refilling of pits with earth in other soils<br>100 x 0.50 x 0.50 x 0.30 | 1 m3     | 3.75             | 27.47   | 197.78          |
| 4                           | Loading & Unloading of Plants                                           | 1 No.    | 50               | 2.46    | 123.00          |
| 5                           | Carriage of Plants = 150 avg. distance upto 10 km.)                     | 100 No   | 50               | 1.00    | 50.00           |
| 6                           | Spreading of plants pit to pit                                          | 100 No   | 50               | 131.20  | 65.60           |
| 7                           | Re-planting to plants                                                   | 100 No   | 50               | 229.09  | 114.55          |
| 8                           | Spot Irrigation                                                         | 100 No.  | 50               | 205.00  | 102.50          |
| 9                           | Weeding & Hoeing (Twice)                                                | 100 No   | 2000             | 357.52  | 7150.40         |
| 10                          | Hand Watering (4 times)                                                 | 100 No   | 4000             | 205.00  | 8200.00         |
| 11                          | Pruning to plants 30%                                                   | 100 No.  | 300              | 387.61  | 1162.83         |
| 12                          | Watch & Ward for every 10 Ha.                                           | Man year | 1/10 Man yr.     | 8528.00 | 5969.60         |
| 13                          | Repair of Barbed wire                                                   | L/s      |                  |         | 5000.00         |
| 14                          | POL & Machinery                                                         | L/s      |                  |         | 5000.00         |
| 15                          | Material and supply                                                     | L/s      |                  |         | 5000.00         |
|                             |                                                                         |          | <b>Sub Total</b> |         | <b>39565.60</b> |
| <b>Maintenance V Year</b>   |                                                                         |          |                  |         |                 |
| 1                           | Watch and Ward every 10 ha. (10 Months)                                 | Man Year | 1/10 Man yr.     | 8528.00 | 5969.60         |
|                             |                                                                         |          | <b>Sub Total</b> |         | <b>5969.60</b>  |
| <b>Maintenance VI Year</b>  |                                                                         |          |                  |         |                 |
| 1                           | Watch and Ward every 10 ha. (10 Months)                                 | Man Year | 1/10 Man yr.     | 8528.00 | 5969.60         |
|                             |                                                                         |          | <b>Sub Total</b> |         | <b>5969.60</b>  |
| <b>Maintenance VII Year</b> |                                                                         |          |                  |         |                 |

Surjit Singh Sahota  
I.F.S.  
Divisional Forest Officer  
Forest Division

|                              |                                         |          |                  |         |                  |
|------------------------------|-----------------------------------------|----------|------------------|---------|------------------|
| 1                            | Watch and Ward every 10 ha. (10 Months) | Man Year | 1/10 Man yr.     | 8528.00 | 5969.60          |
|                              |                                         |          | <b>Sub Total</b> |         | <b>5969.60</b>   |
| <b>Maintenance VIII Year</b> |                                         |          |                  |         |                  |
| 1                            | Watch and Ward every 10 ha. (10 Months) | Man Year | 1/10 Man yr.     | 8528.00 | 5969.60          |
|                              |                                         |          | <b>Sub Total</b> |         | <b>5969.60</b>   |
| <b>Maintenance IX Year</b>   |                                         |          |                  |         |                  |
| 1                            | Watch and Ward every 10 ha. (10 Months) | Man Year | 1/10 Man yr.     | 8528.00 | 5969.60          |
|                              |                                         |          | <b>Sub Total</b> |         | <b>5969.60</b>   |
| <b>Maintenance X Year</b>    |                                         |          |                  |         |                  |
| 1                            | Watch and Ward every 10 ha. (10 Months) | Man Year | 1/10 Man yr.     | 8528.00 | 5969.60          |
|                              |                                         |          | <b>Sub Total</b> |         | <b>5969.60</b>   |
|                              |                                         |          |                  |         | <b>423457.90</b> |
|                              | <b>Over Head expenses 5%</b>            |          |                  |         | <b>21172.90</b>  |
|                              | <b>Wages Enhancement 10%</b>            |          |                  |         | <b>42345.79</b>  |
|                              |                                         |          | <b>G.Total</b>   |         | <b>486976.59</b> |
|                              |                                         |          | <b>Or Say</b>    |         | <b>486977.00</b> |

**Summary of Costs**

a) **Cost of Plantation:**

(i) Cost of plantation in 1 Hect. Area (1000 Plants)+

**Rs 486977.00**

(ii) Cost of plantation for 0.0096 \*2 times **(0.0192 ha)** area

**Rs 9350**

**G.TOTAL 9350**

**Divisional Forest Officer,**  
**Amritsar Forest Division,**  
**Amritsar.**  
**Divisional Forest Officer**  
**Amritsar Forest Division**  
**Amritsar**