

Diversion of 0.0079 ha. of forest land for approach road to Residential Colony Holy City Enclave at Pattik (WML), Opp. Court Complex Patti, on Amritsar-Patti Road, Tehsil Patti, District Tarn Taran.

### Net Present Value

Wage Rate: 411/-

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        |
|                             | Nursery   |                 |                  |                    |                  |
|                             | Cost of raising plants  | 1.100           | 1100             | 23.29              | 25614.73         |
| <b>A</b>                    | <b>Soil Works</b>   |                 |                  |                    |                  |
| 1                           | Site /Jungle Clearance (50%)  | Ha.             | 0.50             | 6249.09            | 3124.54          |
| 2                           | Alignment & Dagbailing  | Ha.             | 1                | 1145.68            | 1145.68          |
| 3                           | Earth Work-<br>(a) Digging of Pits 1000x 0.5m x0.5m x0.4m           | 1M <sup>3</sup> | 100              | 118.04             | 11803.73         |
| 4                           | Kana Stubbing 25%   | Ha.             | 0.25             | 31245.31           | 7811.33          |
| <b>B</b>                    | <b>Plantation Work</b>  |                 |                  |                    |                  |
| 1                           | a) Refilling of Pits 1000 x 0.5m x0.5m x0.4m                        | 100 cum         | 75               | 3198.35            | 2398.76          |
| 2                           | Loading & Unloading of Plants (1000+10% Wastage=1100)               | 100 No          | 1100             | 640.37             | 7044.05          |
| 3                           | Carriage of Plants (1000+10% Wastage=1100 avg. distance upto 10 km) | 100 No          | 1100             | 229.14             | 2520.49          |
| 4                           | i) Carriage from site to site                                       | 100 No          | 1000             | 152.76             | 1527.57          |
|                             | ii) Planting of Plants (1000 No Including 10% replacement)          | 100 No          | 1000             | 1145.68            | 11456.77         |
| 5                           | Spot Irrigation (1000 Plants)                                       | 100 No          | 1000             | 238.68             | 2386.83          |
| 6                           | Application of Insecticide (2 times)                                | 100 No          | 1000             | 47.74              | 477.37           |
| 7                           | Application of Fertilizers (2 times)                                | 100 No          | 1000             | 47.74              | 477.37           |
| 8                           | Weeding & Hoeing 3 times  | 100 No          | 3000             | 416.26             | 12487.88         |
| 9                           | Hand Watering (12 Times)  | 100 No          | 12000            | 238.68             | 28641.93         |
| 10                          | Replanting of Plants 10%  | 100 No          | 100              | 674.26             | 674.26           |
| 11                          | Rejungle Clearance (2 times)  | Per Ha.         | 1                | 2768.72            | 2768.72          |
| 12                          | Covering (25% plants) of plants                                     | 100 No          | 250              | 343.70             | 859.26           |
| 13                          | Uncovering of plants  | 100 No          | 250              | 38.19              | 95.47            |
| 14                          | Restubbing of Kana (1 time)   |                 | 0.25             | 31245.66           | 7811.42          |
| 15                          | Laying out & fixing of Barbed Wire                                  | L/s             |                  |                    | 9165.42          |
| 16                          | Watch & Ward for every 10 Ha. (7 months)                            | Man year        | 1Man<br>7 Month  | 9929.20            | 9929.20          |
| 17                          | Material  |                 |                  |                    | 5000.00          |
|                             | i) Insecticides/Fertilizers   | L/s             |                  |                    | 5000.00          |
|                             | ii) POL   | L/s             |                  |                    | 50000.00         |
|                             | iii) Barbed Wire& fencing   | L/s             |                  |                    |                  |
|                             |   |                 | <b>Sub Total</b> |                    | <b>210222.76</b> |

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**Maintenance I Year**

|    |  |          |                  |          |                 |
|----|--|----------|------------------|----------|-----------------|
| 1  | Cost of raising plants for 30% replacement                         | 1 No.    | 300              | 23.29    | 6985.84         |
| 2  | Reopening of Pits 300 x 0.50 x 0.50 x 0.30                         | 1 m3     | 21.60            | 69.43    | 1499.64         |
| 3  | Refilling of pits with earth in other soils 300                    | 1 m3     | 21.6             | 31.98    | 690.84          |
| 4  | Loading & Unloading of Plants                                      | 1 No.    | 300              | 2.86     | 859.26          |
| 5  | Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.) | 100 No   | 1                | 228.44   | 228.44          |
| 6  | Spreading of plants pit to pit                                     | 100 No   | 165              | 152.76   | 252.05          |
| 7  | Re-planting Tall Plants  | 100 No   | 165              | 383.15   | 632.20          |
| 8  | Spot Irrigation  | 100 No.  | 165              | 238.68   | 393.83          |
| 9  | Weeding & Hoeing (thrice)  | 100 No   | 3000             | 416.26   | 12487.88        |
| 10 | App. Of Fertilizer (two times)                                     | 100 No   | 1000             | 47.74    | 477.37          |
| 11 | App. Of Insecticide (two times)                                    | 100 No   | 1000             | 47.74    | 477.37          |
| 12 | Hand watering (6 times)  | 100 No   | 6000             | 416.26   | 24975.76        |
| 13 | Rejungle Clearance (2 times)                                       | Per Ha.  | 1.00             | 2768.72  | 2768.72         |
| 14 | Restubbing of Kana   | Per Ha.  | 0.25             | 31245.31 | 7811.33         |
| 15 | Watch & Ward for every 10 Ha. (10 months)                          | Man year | 1/10 Man yr.     | 9929.20  | 9929.20         |
| 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>85469.70</b> |

**Maintenance II Year**

|    |  |          |                  |         |                 |
|----|--|----------|------------------|---------|-----------------|
| 1  | Cost of raising plants for 15% replacement                           | No.      | 150              | 23.29   | 3492.92         |
| 2  | Reopening of Pits 250 x 0.60 x 0.60 x 0.40                           | 1 m3     | 21.6             | 69.43   | 1499.64         |
| 3  | Refilling of pits with earth in other soils 250 x 0.60 x 0.60 x 0.40 | 1 m3     | 21.6             | 31.98   | 690.84          |
| 4  | Loading & Unloading of Plants  | 1 No.    | 75               | 2.86    | 214.81          |
| 5  | Carriage of Plants = 75 avg. distance upto 10 km.)                   | 100 No   | 1                | 228.44  | 228.44          |
| 6  | Spreading of plants pit to pit                                       | 100 No   | 75               | 152.76  | 114.57          |
| 7  | Re-planting to tall plants   | 100 No   | 75               | 266.73  | 200.05          |
| 8  | Spot Irrigation  | 100 No.  | 75               | 238.68  | 179.01          |
| 9  | Weeding & Hoeing (twice)   | 100 No   | 2000             | 416.26  | 8325.25         |
| 10 | Hand Watering 5 Times  | 100 No   | 500              | 238.68  | 11934.14        |
| 11 | Rejungle Clearance ( 2 times)  | Per Ha.  | 1.00             | 2768.72 | 2768.72         |
| 12 | Pruning to plants  | 100 No.  | 100              | 451.30  | 451.30          |
| 14 | Watch & Ward for every 10 Ha.  | Man year | 1/10 Man yr.     | 9929.20 | 9929.20         |
| 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>55028.88</b> |

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| Maintenance III Year |  |          |                  |          |          |
|----------------------|--|----------|------------------|----------|----------|
| 1                    | Cost of raising plants for 10% replacement                           | 1 No.    | 100              | 23.29    | 2328.61  |
| 2                    | Reopening of Pits 200 x 0.50 x 0.50 x 0.40                           | 1 m3     | 10               | 6942.76  | 694.28   |
| 3                    | Refilling of pits with earth in other soils 100 x 0.60 x 0.60 x 0.40 | 1 m3     | 7.5              | 31.98    | 239.88   |
| 4                    | Loading & Unloading of Plants  | 1 No.    | 100              | 2.86     | 286.42   |
| 5                    | Carriage of Plants 200 avg. distance upto 10 km.)                    | 100 No   | 100              | 1.16     | 116.43   |
| 6                    | Spreading of plants pit to pit                                       | 100 No   | 100              | 152.76   | 152.76   |
| 7                    | Re-planting to plants  | 100 No   | 100              | 266.73   | 266.73   |
| 8                    | Spot Irrigation  | 100 No.  | 100              | 238.68   | 238.68   |
| 9                    | Weeding & Hoeing (Twice)   | 100 No   | 2000             | 416.26   | 8325.25  |
| 10                   | Hand Watering (5 times)  | 100 No   | 5000             | 238.68   | 11934.14 |
| 11                   | Pruning to plants 20%  | 100 No.  | 200              | 451.30   | 902.59   |
| 12                   | Watch & Ward for every 10 Ha.  | Man year | 1/10 Man yr.     | 9929.20  | 9929.20  |
| 13                   | Repair of Barbed wire  | L/s      |                  |          | 5000.00  |
| 14                   | POL & Machinery  | L/s      |                  |          | 5000.00  |
| 15                   | Material and supply  | L/s      |                  |          | 50414.97 |
|                      |  |          | <b>Sub Total</b> |          |          |
| Maintenance IV Year  |  |          |                  |          |          |
| 1                    | Cost of raising plants for 5% replacement                            | 1 No.    | 50               | 23.29    | 1164.31  |
| 2                    | Reopening of Pits 50 x 0.50 x 0.50 x 0.40                            | 1 m3     | 5                | 6942.76  | 347.14   |
| 3                    | Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30 | 1 m3     | 3.75             | 31.98    | 119.94   |
| 4                    | Loading & Unloading of Plants  | 1 No.    | 50               | 2.86     | 143.21   |
| 5                    | Carriage of Plants = 150 avg. distance upto 10 km.)                  | 100 No   | 50               | 1.16     | 58.22    |
| 6                    | Spreading of plants pit to pit                                       | 100 No   | 50               | 152.76   | 76.38    |
| 7                    | Re-planting to plants  | 100 No   | 50               | 266.73   | 133.37   |
| 8                    | Spot Irrigation  | 100 No.  | 50               | 238.68   | 119.34   |
| 9                    | Weeding & Hoeing (Twice)   | 100 No   | 2000             | 416.26   | 8325.25  |
| 10                   | Hand Watering (4 times)  | 100 No   | 4000             | 238.68   | 9547.31  |
| 11                   | Pruning to plants 30%  | 100 No.  | 300              | 451.30   | 1353.89  |
| 12                   | Watch & Ward for every 10 Ha.  | Man year | 1/10 Man yr.     | 9929.20  | 9929.20  |
| 13                   | Repair of Barbed wire  | L/s      |                  |          | 5000.00  |
| 14                   | POL & Machinery  | L/s      |                  |          | 5000.00  |
| 15                   | Material and supply  | L/s      |                  |          | 46317.55 |
|                      |  |          | <b>Sub Total</b> |          |          |
| Maintenance V Year   |  |          |                  |          |          |
| 1                    | Watch and Ward every 10 ha. (10 Months)                              | Man Year | 1/10 Man yr.     | 9929.20  | 9929.20  |
|                      |  |          | <b>Sub Total</b> |          | 9929.20  |
| Maintenance VI Year  |  |          |                  |          |          |
| 1                    | Watch and Ward every 10 ha. (10 Months)                              | Man Year | 1/10 Man yr.     | 9929.20. | 9929.20  |
|                      |  |          | <b>Sub Total</b> |          | 9929.20  |
| Maintenance VII Year |  |          |                  |          |          |
| 1                    | Watch and Ward every 10 ha. (10 Months)                              | Man Year | 1/10 Man yr.     | 9929.20  | 9929.20  |
|                      |  |          | <b>Sub Total</b> |          | 9929.20  |

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| Maintenance VIII Year |   |          |                  |         |                  |
|-----------------------|---|----------|------------------|---------|------------------|
| 1                     | Watch and Ward every 10 ha. (10 Months) | Man Year | 1/10 Man yr.     | 9929.20 | 9929.20          |
|                       |   |          | <b>Sub Total</b> |         | <b>9929.20</b>   |
| Maintenance IX Year   |   |          |                  |         |                  |
| 1                     | Watch and Ward every 10 ha. (10 Months) | Man Year | 1/10 Man yr.     | 9929.20 | 9929.20          |
|                       |   |          | <b>Sub Total</b> |         | <b>9929.20</b>   |
| Maintenance X Year    |   |          |                  |         |                  |
| 1                     | Watch and Ward every 10 ha. (10 Months) | Man Year | 1/10 Man yr.     | 9929.20 | 9929.20          |
|                       |   |          | <b>Sub Total</b> |         | <b>9929.20</b>   |
|                       |   |          |                  |         | <b>507029.07</b> |
|                       | <b>Over Head expenses 5%</b>            |          |                  |         | <b>25351.45</b>  |
|                       | <b>Wages Enhancement 10%</b>            |          |                  |         | <b>50702.91</b>  |
|                       |   |          | <b>G.Total</b>   |         | <b>583083.43</b> |
|                       |   |          | <b>Or Say</b>    |         |                  |

Net present value as fixed by Govt. for  
b) open area diverted @ Rs 957780 lac per  
ha.

7566

Total

7566

  
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