

**ESTIMATED COST PER HA. OF PLANTATION :** Div. of 0.002238 ha. forest land for approach road to Retail outlet(IOC) at Vill Patti Sadiq on Patti Sadiq to Sherewala Link road KM 0-1 L/s Distt. Fazilka under Muktsar Forest Division.

Land Bank: Main branch canal rd 110-139 R/s

Wage Rate: 305/-  
Plants : 1000 No.

**Advance Work and Plantation**

|    | Name of Work                                   | Unit            | Unit Cost | Qty              | Total Amt        |
|----|------------------------------------------------|-----------------|-----------|------------------|------------------|
|    | <b>Nursery</b>                                 |                 |           |                  |                  |
|    | Cost of raising plants                         | 1               | 24.16     | 1100             | 26574.26         |
|    | <b>Soil Works</b>                              |                 |           |                  |                  |
| 1  | Site /Jungle Clearance (25%)                   | Ha.             | 4988.71   | 0.25             | 1247.18          |
| 2  | Alignment & Dagbailing                         | Ha.             | 792.70    | 1                | 792.70           |
| 3  | Earth Work-                                    | 1M <sup>3</sup> | 93.61     | 80               | 7489.11          |
|    | (b) Preparation of Ridges 500 x .8x.50 m       | 1M <sup>3</sup> | 81.53     | 200 m3           | 10816.00         |
| 4  | Kana Stubbing 20%                              | Ha.             | 24952.62  | 0.20             | 4990.52          |
| 1  | a) Refilling of Pits                           | 100 No          | 126.83    | 900              | 1141.49          |
|    | (b) Digging of slots 200 x .3 x .3 x .2 m      | m3              | 55.87     | 3.60             | 201.12           |
| 2  | Loading & Unloading of Plants (1000+10%        | 100 No          | 37.75     | 1100             | 415.22           |
| 3  | Carriage of Plants (1000+10% Wastage=1100 avg. | 100 No          | 182.70    | 1100             | 2009.68          |
| 4  | i) Carriage from site to site                  | 100 No          | 10.57     | 1000             | 105.69           |
|    | ii) Planting of Plants (1000 No Including 10%  | 100 No          | 330.67    | 1000             | 3306.68          |
| 5  | Spot Irrigation (1000 Plants)                  | 100 No          | 274.80    | 1000             | 2748.02          |
| 6  | Application of Insecticide (2 times)           | 100 No          | 37.75     | 2000             | 754.95           |
| 7  | Application of Fertilizers (2 times)           | 100 No          | 37.75     | 2000             | 754.95           |
| 8  | Weeding & Hoeing 3 times                       | 100 No          | 330.67    | 3000             | 9920.05          |
| 9  | Hand Water (12 times)                          | 100 No          | 274.80    | 12000            | 32976.24         |
| 10 | Replanting of Plants 10%                       | 100 No          | 836.49    | 100              | 836.49           |
| 11 | Rejungle Clearance (2 times)                   | Per Ha.         | 2210.50   | 0.5              | 1105.25          |
| 12 | Covering (25% plants) of plants                | 100 No          | 274.80    | 250              | 687.00           |
| 13 | Uncovering of plants                           | 100 No          | 30.20     | 250              | 75.50            |
| 14 | Restubbing of Kana (1 time)                    |                 | 9485.20   | 0.2              | 1897.04          |
| 15 | Laying out & fixing of Barbed Wire             | L/s             |           |                  | 4200.00          |
| 16 | Watch & Ward for every 10 Ha. (7 months)       | Man year        | 5550.40   | 1Man             | 5550.40          |
| 17 | Material                                       |                 |           |                  |                  |
|    | i) Insecticides/Fertilizers                    | L/s             |           |                  | 6794.55          |
|    | ii) POL                                        | L/s             |           |                  | 15099.01         |
|    | iii) Barbed Wire& fencing                      | L/s             |           |                  | 60396.04         |
|    |                                                |                 |           | <b>Sub Total</b> | <b>202885.13</b> |

**Maintenance I Year**

|    |                                                               |          |          |                  |                 |
|----|---------------------------------------------------------------|----------|----------|------------------|-----------------|
|    |                                                               |          |          |                  | 754.95          |
| 1  | Cost of raising plants for 30%                                | 1 No.    | 24.16    | 300              | 7247.52         |
| 2  | Reopening of Pits 300 x 0.50 x 0.50 x 0.30                    | 1 m3     | 33.22    | 22.5m3           | 747.40          |
| 3  | Refilling of pits with earth in other soils 300 x 0.50 x 0.50 | 1 m3     | 16.61    | 22.5m3           | 373.70          |
| 4  | Loading & Unloading of Plants                                 | 1 No.    | 0.38     | 300              | 113.24          |
| 5  | Carriage of Plants (300+10% Wastage=330 avg. distance         | 100 No   | 182.70   | 330              | 602.9           |
| 6  | Spreading of plants pit to pit                                | 100 No   | 10.57    | 300              | 31.7            |
| 7  | Re-planting to plants                                         | 100 No   | 330.67   | 300              | 992.0           |
| 8  | Spot Irrigation                                               | 100 No.  | 274.80   | 300              | 824.4           |
| 9  | Weeding & Hoeing (thrice)                                     | 100 No   | 330.67   | 3000             | 9920.05         |
| 10 | App. Of Fertilizer (two times)                                | 100 No   | 37.75    | 2000             | 754.95          |
| 11 | App. Of Insecticide (two times)                               | 100 No   | 37.75    | 2000             | 754.95          |
| 12 | Hand watering 8 Times                                         | 100 No   | 274.80   | 8000             | 21984.16        |
| 13 | Rejungle Clearance (2 times)                                  | Per Ha.  | 2210.50  | 0.50             | 1105.25         |
| 14 | Restubbing of Kana                                            | Per Ha.  | 9485.20  | 0.20             | 1897.04         |
| 15 | Watch & Ward for every 10 Ha. (10 months)                     | Man year | 79300.00 | 1/10 Man yr.     | 7930.00         |
| 16 | Repair of Barbed wire                                         | L/s      |          |                  | 6794.55         |
| 17 | POL & Machinery                                               | L/s      |          |                  | 15099.01        |
| 18 | Material and supply                                           | L/s      |          |                  | 10569.31        |
|    |                                                               |          |          | <b>Sub Total</b> | <b>87742.16</b> |

**Maintenance II Year**

|   |                                                          |         |        |          |         |
|---|----------------------------------------------------------|---------|--------|----------|---------|
| 1 | Cost of raising plants for 25% replacement               | No.     | 24.16  | 250      | 6039.60 |
| 2 | Reopening of Pits 200 x 0.50 x 0.50 x 0.30               | 1 m3    | 33.22  | 18.75 m3 | 412.50  |
| 3 | Refilling of pits with earth in other soils 200 x 0.50 x | 1 m3    | 16.61  | 15 m3    | 116.10  |
| 4 | Loading & Unloading of Plants                            | 1 No.   | 0.38   | 250      | 94.37   |
| 5 | Carriage of Plants (200+10% Wastage=220 avg. distance    | 100 No  | 182.70 | 220      | 401.9   |
| 6 | Spreading of plants pit to pit                           | 100 No  | 10.57  | 250      | 26.4    |
| 7 | Re-planting to plants                                    | 100 No  | 330.67 | 250      | 826.7   |
| 8 | Spot Irrigation                                          | 100 No. | 274.80 | 250      | 687.0   |
| 9 | Weeding & Hoeing (twice)                                 | 100 No  | 330.67 | 3000     | 9920.05 |

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|                             |                                                          |          |          |                  |                 |
|-----------------------------|----------------------------------------------------------|----------|----------|------------------|-----------------|
| 10                          | Hand Watering 5 Times                                    | 100 No   | 274.80   | 5000             | 13740.10        |
| 11                          | Rejungle Clearance ( 2 times)                            | Per Ha.  | 2210.50  | 0.50             | 1105.25         |
| 12                          | Stubbing of Kana                                         | Per Ha.  | 9485.20  | 0.20             | 1897.04         |
| 13                          | Pruning to plants                                        | 100 No.  | 277.82   | 200              | 555.64          |
| 14                          | Watch & Ward for every 10 Ha.                            | Man year | 87565.20 | 1/10 Man yr.     | 8756.52         |
| 15                          | Repair of Barbed wire                                    | L/s      |          |                  | 6794.55         |
| 16                          | POL & Machinery                                          | L/s      |          |                  | 15099.01        |
| 17                          | Material and supply                                      | L/s      |          |                  | 10569.31        |
|                             |                                                          |          |          | <b>Sub Total</b> | <b>77042.08</b> |
| <b>Maintenance III Year</b> |                                                          |          |          |                  |                 |
| 1                           | Cost of raising plants for 20% replacement               | 1 No.    | 24.16    | 200              | 4831.68         |
| 2                           | Reopening of Pits 200 x 0.50 x 0.50 x 0.30               | 1 m3     | 33.22    | 15 m3            | 330.00          |
| 3                           | Refilling of pits with earth in other soils 100 x 0.50 x | 1 m3     | 18.12    | 15 m3            | 180.00          |
| 4                           | Loading & Unloading of Plants                            | 1 No.    | 0.38     | 200              | 75.50           |
| 5                           | Carriage of Plants (100+10% Wastage=110 avg. distance    | 100 No   | 182.70   | 110              | 200.97          |
| 6                           | Spreading of plants pit to pit                           | 100 No   | 10.57    | 200              | 21.14           |
| 7                           | Re-planting to plants                                    | 100 No   | 330.67   | 200              | 661.34          |
| 8                           | Spot Irrigation                                          | 100 No.  | 274.80   | 200              | 549.60          |
| 9                           | Weeding & Hoeing (thrice)                                | 100 No   | 330.67   | 3000             | 9920.05         |
| 10                          | Hand Watering (3 times)                                  | 100 No   | 274.80   | 3000             | 8244.06         |
| 11                          | Rejungle Clearance ( 2 times)                            | Per Ha.  | 2210.50  | 0.50             | 1105.25         |
| 12                          | Stubbing of Kana                                         | Per Ha.  | 9485.20  | 0.20             | 1897.04         |
| 13                          | Pruning to plants 20%                                    | 100 No.  | 277.82   | 200              | 555.64          |
| 14                          | Watch & Ward for every 10 Ha.                            | Man year | 79300.00 | 1/10 Man yr.     | 7930.00         |
| 15                          | Repair of Barbed wire                                    | L/s      |          |                  | 6794.55         |
| 16                          | POL & Machinery                                          | L/s      |          |                  | 15099.01        |
| 17                          | Material and supply                                      | L/s      |          |                  | 10569.31        |
|                             |                                                          |          |          | <b>Sub Total</b> | <b>68965.14</b> |
| <b>Maintenance IV Year</b>  |                                                          |          |          |                  |                 |
| 1                           | Cost of raising plants for 15% replacement               | 1 No.    | 24.16    | 150              | 3623.76         |
| 2                           | Reopening of Pits 150 x 0.50 x 0.50 x 0.30               | 1 m3     | 33.22    | 11.25 m3         | 247.50          |
| 3                           | Refilling of pits with earth in other soils 150 x 0.50 x | 1 m3     | 18.12    | 11.25 m3         | 135.00          |
| 4                           | Loading & Unloading of Plants                            | 1 No.    | 0.38     | 150              | 56.62           |
| 5                           | Carriage of Plants (100+10% Wastage=110 avg. distance    | 100 No   | 182.70   | 110              | 200.97          |
| 6                           | Spreading of plants pit to pit                           | 100 No   | 10.57    | 150              | 15.85           |
| 7                           | Re-planting to plants                                    | 100 No   | 330.67   | 150              | 496.00          |
| 8                           | Spot Irrigation                                          | 100 No.  | 274.80   | 150              | 412.20          |
| 9                           | Weeding & Hoeing (thrice)                                | 100 No   | 330.67   | 3000             | 9920.05         |
| 10                          | Hand Watering (3 times)                                  | 100 No   | 274.80   | 3000             | 8244.06         |
| 11                          | Rejungle Clearance ( 2 times)                            | Per Ha.  | 2210.50  | 0.50             | 1105.25         |
| 12                          | Stubbing of Kana                                         | Per Ha.  | 9485.20  | 0.20             | 1897.04         |
| 13                          | Pruning to plants 30%                                    | 100 No.  | 277.82   | 300              | 833.47          |
| 14                          | Watch & Ward for every 10 Ha.                            | Man year | 79300.00 | 1/10 Man yr.     | 7930.00         |
| 15                          | Repair of Barbed wire                                    | L/s      |          |                  | 6794.55         |
| 16                          | POL & Machinery                                          | L/s      |          |                  | 15099.01        |
| 17                          | Material and supply                                      | L/s      |          |                  | 10569.31        |
|                             |                                                          |          |          | <b>Sub Total</b> | <b>67580.64</b> |
| <b>Maintenance V Year</b>   |                                                          |          |          |                  |                 |
| 1                           | Cost of raising plants for 10% replacement               | 1 No.    | 24.16    | 100              | 2415.84         |
| 2                           | Reopening of Pits 100 x 0.50 x 0.50 x 0.30               | 1 m3     | 33.22    | 7.5 m3           | 165.00          |
| 3                           | Refilling of pits with earth in other soils 100 x 0.50 x | 1 m3     | 18.12    | 7.5 m3           | 90.00           |
| 4                           | Loading & Unloading of Plants                            | 1 No.    | 0.38     | 100              | 37.75           |
| 5                           | Carriage of Plants (100+10% Wastage=110 avg. distance    | 100 No   | 182.70   | 110              | 200.97          |
| 6                           | Spreading of plants pit to pit                           | 100 No   | 10.57    | 100              | 10.57           |
| 7                           | Re-planting to plants                                    | 100 No   | 330.67   | 100              | 330.67          |
| 8                           | Spot Irrigation                                          | 100 No.  | 274.80   | 100              | 274.80          |
| 9                           | Weeding & Hoeing (thrice)                                | 100 No   | 330.67   | 3000             | 9920.05         |
| 10                          | Hand Watering (3 times)                                  | 100 No   | 274.80   | 3000             | 8244.06         |
| 11                          | Rejungle Clearance ( 2 times)                            | Per Ha.  | 2210.50  | 0.50             | 1105.25         |
| 12                          | Stubbing of Kana                                         | Per Ha.  | 9485.20  | 0.20             | 1897.04         |
| 13                          | Pruning to plants 30%                                    | 100 No.  | 277.82   | 300              | 833.47          |
| 14                          | Watch & Ward for every 10 Ha.                            | Man year | 79300.00 | 1/10 Man yr.     | 7930.00         |
| 15                          | Repair of Barbed wire                                    | L/s      |          |                  | 6794.55         |
| 16                          | POL & Machinery                                          | L/s      |          |                  | 15099.01        |
| 17                          | Material and supply                                      | L/s      |          |                  | 10569.31        |
|                             |                                                          |          |          | <b>Sub Total</b> | <b>65918.33</b> |
| <b>Maintenance VI Year</b>  |                                                          |          |          |                  |                 |
| 1                           | Cost of raising plants for 50% replacement               | 1 No.    | 24.16    | 50               | 1207.92         |
| 2                           | Reopening of Pits 50 x 0.50 x 0.50 x 0.30                | 1 m3     | 33.22    | 3.75 m3          | 82.50           |
| 3                           | Refilling of pits with earth in other soils 50 x 0.50 x  | 1 m3     | 18.12    | 3.75 m3          | 45.00           |
| 4                           | Loading & Unloading of Plants                            | 1 No.    | 0.38     | 50               | 18.87           |
| 5                           | Carriage of Plants (100+10% Wastage=110 avg. distance    | 100 No   | 182.70   | 110              | 200.97          |

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|                              |                                                                         |          |          |                  |                  |
|------------------------------|-------------------------------------------------------------------------|----------|----------|------------------|------------------|
| 6                            | Spreading of plants pit to pit                                          | 100 No   | 10.57    | 50               | 5.28             |
| 7                            | Re-planting to plants                                                   | 100 No   | 330.67   | 50               | 165.33           |
| 8                            | Spot Irrigation                                                         | 100 No.  | 274.80   | 50               | 137.40           |
| 9                            | Weeding & Hoeing (thrice)                                               | 100 No   | 330.67   | 3000             | 9920.05          |
| 10                           | Hand Watering (3 times)                                                 | 100 No   | 274.80   | 3000             | 8244.06          |
| 11                           | Rejungle Clearance ( 2 times)                                           | Per Ha.  | 2210.50  | 0.50             | 1105.25          |
| 12                           | Stubbing of Kana                                                        | Per Ha.  | 9485.20  | 0.20             | 1897.04          |
| 13                           | Pruning to plants 30%                                                   | 100 No.  | 277.82   | 300              | 833.47           |
| 14                           | Watch & Ward for every 10 Ha.                                           | Man year | 79300.00 | 1/10 Man yr.     | 7930.00          |
| 15                           | Repair of Barbed wire                                                   | L/s      |          |                  | 6794.55          |
| 16                           | POL & Machinery                                                         | L/s      |          |                  | 15099.01         |
| 17                           | Material and supply                                                     | L/s      |          |                  | 10569.31         |
|                              |                                                                         |          |          | <b>Sub Total</b> | <b>64256.01</b>  |
| <b>Maintenance VII Year</b>  |                                                                         |          |          |                  |                  |
| 1                            | Re Jungle Clearance two times                                           | Per Ha.  | 2210.50  | 0.50             | 1105.25          |
| 2                            | Re-Kana Stubbing                                                        | Per Ha.  | 9485.20  | 0.20             | 1897.04          |
| 3                            | Watch and Ward every 10 ha.                                             |          | 79300.00 | 1/10 Man yr.     | 7930.00          |
|                              |                                                                         |          |          | <b>Sub Total</b> | <b>10932.29</b>  |
| <b>Maintenance VIII Year</b> |                                                                         |          |          |                  |                  |
| 1                            | Re Jungle Clearance two times                                           | Per Ha.  | 2210.50  | 0.50             | 1105.25          |
| 2                            | Re-Kana Stubbing                                                        | Per Ha.  | 9485.20  | 0.20             | 1897.04          |
| 3                            | Watch and Ward every 10 ha.                                             |          | 79300.00 | 1/10 Man yr.     | 7930.00          |
|                              |                                                                         |          |          | <b>Sub Total</b> | <b>10932.29</b>  |
| <b>Maintenance IX Year</b>   |                                                                         |          |          |                  |                  |
| 1                            | Watch and Ward every 10 ha.                                             | Per Ha.  | 79300.00 | 1/10 Man yr.     | 7930.00          |
|                              |                                                                         |          |          | <b>Sub Total</b> | <b>7930.00</b>   |
| <b>Maintenance X Year</b>    |                                                                         |          |          |                  |                  |
| 1                            | Watch and Ward every 10 ha.                                             | Per Ha.  | 79300.00 | 1/10 Man yr.     | 7930.00          |
|                              |                                                                         |          |          | <b>Sub Total</b> | <b>7930.00</b>   |
|                              |                                                                         |          |          | <b>TOTAL</b>     | <b>672114.06</b> |
|                              | <b>Over Head expenses 5%</b>                                            |          |          |                  | <b>33605.70</b>  |
|                              |                                                                         |          |          | <b>G.Total</b>   | <b>705719.77</b> |
|                              |                                                                         |          |          | <b>Or Say</b>    | <b>705000.00</b> |
| 1                            | NPV OF 'area 0.002238 X 6.26 lakh                                       |          |          |                  | 1405.00          |
| 2                            | Cost of Compensatory Afforestation 0.002238 X 2500 = 6 Plants @ 705 Rs. |          |          |                  | 4230.00          |
|                              | <b>Grand Total</b>                                                      |          |          |                  | <b>5635.00</b>   |

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