

Additional Compensatory Afforestation Scheme with 05 years mtc. for diversion of 0.917 Ha. (0.778 Ha. area closed u/s 4/5 of PLPA, 1900 + 0.139 Ha. area delisted from PLPA, 1900+0.0207 Ha. PF area of AHC) of forest land in favour of Executive Engineer, Rupnagar Head Works, Rupnagar, Water Resources Department, Punjab for construction of Jeowal-Bhatoli- Baruwal-Massewal- Majher-Chikna- Nard Lift Irrigation Scheme, Falling within the jurisdiction of Forest Division and Distt. Rupnagar (Punjab).

|                                                        |                                                                             |
|--------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) Diverted Forest Area = 0.917 Ha                     | 4) Site of Addl. CA : Raipur Forest                                         |
| 2) No. of Poles affected 32 Nos.                       |                                                                             |
| 2) Additional C.A. For = 0.128 Ha & 64 Plants (32 x 2) | 5) Species will be planted = Kikar, Shisham, Drek, Mulberry and Other Misc. |
| 3) No. of tall plants to be planted = 64 Plants        | No. of Plants to be planted in 1 Ha: 500                                    |

**Estimate for planting**

**Daily Wage Rate : 368/-**

| Sr. No. | Name of Work                                                                                       | Unit                 | Unit Cost (In Rs.) | Qty              | Total Amt       |
|---------|----------------------------------------------------------------------------------------------------|----------------------|--------------------|------------------|-----------------|
|         | <b>Nursery</b>                                                                                     |                      |                    |                  |                 |
| 1       | Cost of Plants                                                                                     | 1 No                 | 60.00              | 550              | 33,000          |
|         | <b>Earth Work</b>                                                                                  |                      |                    |                  |                 |
| 2       | Site /Jungle Clearance (50%)                                                                       | Ha.                  | 6,021.76           | 0.50             | 3,011           |
| 3       | Alignment & Dagbailing                                                                             | Ha.                  | 1,104.00           | 1.00             | 1,104           |
| 4       | Earth Work- Digging of Trenches 500 x 2m x 0.35m x 0.3m Heavy Soil                                 | 1M <sup>3</sup>      | 113.74             | 105              | 11,943          |
| 5       | Kana Stubbing 25%                                                                                  | Ha.                  | 30,109.02          | 0.25             | 7,527           |
|         | <b>Planting</b>                                                                                    |                      |                    |                  |                 |
| 6       | Refilling of Trenches                                                                              | 100 cum              | 3,082.00           | 105              | 3,236           |
| 7       | Loading of Plants (500+10% Wastage=550)                                                            | 100 No               | 27.60              | 550              | 152             |
| 8       | Carriage of P. Bags in trolley from nursery to plantation site (550 plants= 1 trolley) (for 10 Km) | 1 trolley for 10 kms | 2,760.00           | 1.00             | 2,760           |
| 9       | Unloading of Plants (500+10% Wastage=550)                                                          | 100 No               | 18.40              | 550              | 101             |
| 10      | Carriage of Plants (500+10% Wastage=550 above 50 m distance)                                       | 100 No               | 23.00              | 550              | 127             |
| 11      | Loading of FYM / Vermicompost                                                                      | 1 trolley            | 368.00             | 0.10             | 37              |
| 12      | Carriage of Vermicompost (10 kms)                                                                  | 1 trolley            | 1,840.00           | 0.10             | 184             |
| 13      | Unloading of FYM / Vermicompost                                                                    | 1 trolley            | 184.00             | 0.10             | 18              |
| 14      | Planting of Plants (500 No including 10% replacement)                                              | 100 No               | 468.36             | 550              | 2,576           |
| 15      | Spot Irrigation (500 Plants)                                                                       | 100 No               | 368.00             | 500              | 3,680           |
| 16      | Application of Insecticide (2 times)                                                               | 100 No               | 64.40              | 1,000            | 644             |
| 17      | Application of Fertilizers (2 times)                                                               | 100 No               | 64.40              | 1,000            | 644             |
| 18      | Weeding & Hoeing 3 times                                                                           | 100 No               | 401.12             | 1,500            | 6,017           |
| 19      | Replanting of Plants 10%                                                                           | 100 No               | 468.36             | 50               | 468             |
| 20      | Rejungle Clearance (2 times)                                                                       | Per Ha.              | 6,021.76           | 1.00             | 6,022           |
| 21      | Restubbing of Kana (1 time)                                                                        | Ha.                  | 30,109.02          | 0.25             | 7,527           |
| 22      | Watch & Ward for every 10 Ha. (7 months)                                                           | Man year             | 1,14,816.00        | 1Man<br>7 Month  | 6,698           |
|         | <b>Material</b>                                                                                    |                      |                    |                  |                 |
| 23      | i) Insecticides/Fertilizers                                                                        | L/s                  |                    |                  | 10,000          |
| 24      | ii) Vermicompost                                                                                   | L/s                  |                    |                  | 2,500           |
| 25      | iii) POL                                                                                           | L/s                  |                    |                  | 10,000          |
|         |                                                                                                    |                      |                    | <b>Sub Total</b> | <b>1,19,976</b> |

| Maintenance I Year |                                                                            |          |             |                  |               |
|--------------------|----------------------------------------------------------------------------|----------|-------------|------------------|---------------|
| 1                  | Cost of plants for 30% replacement                                         | 1 No.    | 60.00       | 150              | 9,000         |
| 2                  | Reopening of Trenches 150 x 0.35m x 0.35m x 0.3m Heavy Soil                | 1 m3     | 66.90       | 5.51             | 369           |
| 3                  | Refilling of trenches with earth in other soils 150 x 0.35m x 0.35m x 0.3m | 1 m3     | 30.82       | 5.51             | 170           |
| 4                  | Loading & Unloading of Plants                                              | 100 No.  | 46.00       | 165              | 76            |
| 5                  | Carriage of Plants (150+10% Wastage=165 avg. distance upto 10 km.)         | 1000 No  | 2,760.00    | 165              | 455           |
| 6                  | Spreading of plants pit to pit                                             | 100 No   | 23.00       | 150              | 35            |
| 7                  | Re-planting of Plants                                                      | 100 No   | 468.36      | 165              | 773           |
| 8                  | Spot Irrigation                                                            | 100 No.  | 368.00      | 150              | 368           |
| 9                  | Weeding & Hoeing (thrice)                                                  | 100 No   | 401.12      | 1,500            | 6,017         |
| 10                 | App. Of Fertilizer (two times)                                             | 100 No   | 64.40       | 1,000            | 644           |
| 11                 | App. Of Insecticide (two times)                                            | 100 No   | 64.40       | 1,000            | 644           |
| 12                 | Rejungle Clearance (2 times)                                               | Ha.      | 6,021.76    | 1.00             | 6,022         |
| 13                 | Restubbing of Kana                                                         | Ha.      | 30,109.02   | 0.25             | 7,527         |
| 14                 | Watch & Ward for every 10 Ha.                                              | Man year | 1,14,816.00 | 1 Man Year       | 11,482        |
| 15                 | POL                                                                        | L/s      |             |                  | 5,000         |
| 16                 | Material and supply                                                        | L/s      |             |                  | 5,000         |
|                    |                                                                            |          |             | <b>Sub Total</b> | <b>53,580</b> |

| Maintenance II Year |                                                                           |          |             |                  |               |
|---------------------|---------------------------------------------------------------------------|----------|-------------|------------------|---------------|
| 1                   | Cost of plants for 15% replacement                                        | No.      | 60.00       | 75               | 4,500         |
| 2                   | Reopening of Trenches 75 x 0.35m x 0.35m x 0.3m Heavy Soil                | 1 m3     | 66.90       | 2.76             | 184           |
| 3                   | Refilling of trenches with earth in other soils 75 x 0.35m x 0.35m x 0.3m | 1 m3     | 30.82       | 2.76             | 85            |
| 4                   | Loading & Unloading of Plants                                             | 100 No.  | 46.00       | 83               | 38            |
| 5                   | Carriage of Plants (No. of plants = 75 avg. distance upto 10 km.)         | 1000 No  | 2,760.00    | 83               | 228           |
| 6                   | Spreading of plants pit to pit                                            | 100 No   | 23.00       | 75               | 17            |
| 7                   | Re-planting of Plants                                                     | 100 No   | 468.36      | 83               | 386           |
| 8                   | Spot Irrigation                                                           | 100 No.  | 368.00      | 75               | 368           |
| 9                   | Weeding & Hoeing (2 times)                                                | 100 No   | 401.12      | 1,000            | 4,011         |
| 10                  | Rejungle Clearance ( 2 times)                                             | Ha.      | 6,021.76    | 1.00             | 6,022         |
| 11                  | Stubbing of Kana                                                          | Ha.      | 30,109.02   | 0.25             | 7,527         |
| 12                  | Pruning of plants                                                         | 100 No.  | 93.67       | 500              | 468           |
| 13                  | Watch & Ward for every 10 Ha.                                             | Man year | 1,14,816.00 | 1 Man Year       | 11,482        |
| 14                  | POL                                                                       | L/s      |             |                  | 5,000         |
| 15                  | Material and supply                                                       | L/s      |             |                  | 5,000         |
|                     |                                                                           |          |             | <b>Sub Total</b> | <b>45,317</b> |



| Maintenance III Year |                                                                           |                |               |                  |                 |
|----------------------|---------------------------------------------------------------------------|----------------|---------------|------------------|-----------------|
| 1                    | Cost of plants for 10% replacement                                        | No.            | 60.00         | 50               | 3,000           |
| 2                    | Reopening of Trenches 50 x 0.35m x 0.35m x 0.3m Heavy Soil                | 1 m3           | 66.90         | 1.84             | 123             |
| 3                    | Refilling of trenches with earth in other soils 50 x 0.35m x 0.35m x 0.3m | 1 m3           | 30.82         | 1.84             | 57              |
| 4                    | Loading & Unloading of Plants                                             | 100 No.        | 46.00         | 55               | 25              |
| 5                    | Carriage of Plants (No. of plants = 50 avg. distance upto 10 km.)         | 1000 No        | 2,760.00      | 55               | 152             |
| 6                    | Spreading of plants pit to pit                                            | 100 No         | 23.00         | 50               | 12              |
| 7                    | Re-planting of Plants                                                     | 100 No         | 468.36        | 55               | 258             |
| 8                    | Spot Irrigation                                                           | 100 No.        | 368.00        | 50               | 368             |
| 9                    | Weeding & Hoeing (2 times)                                                | 100 No         | 401.12        | 1,000            | 4,011           |
| 10                   | Rejungle Clearance ( 2 times)                                             | Ha.            | 6,021.76      | 1.00             | 6,022           |
| 11                   | Stubbing of Kana                                                          | Ha.            | 30,109.02     | 0.25             | 7,527           |
| 12                   | Pruning of plants                                                         | 100 No.        | 93.67         | 500              | 468             |
| 13                   | Watch & Ward for every 10 Ha.                                             | Man year       | 1,14,816.00   | 1 Man Year       | 11,482          |
| 14                   | POL                                                                       | L/s            |               |                  | 5,000           |
| 15                   | Material and supply                                                       | L/s            |               |                  | 5,000           |
|                      |                                                                           |                |               | <b>Sub Total</b> | <b>43,504</b>   |
| Maintenance IV Year  |                                                                           |                |               |                  |                 |
| 1                    | Cost of plants for 5% replacement                                         | No.            | 60.00         | 25               | 1,500           |
| 2                    | Reopening of Trenches 25 x 0.35m x 0.35m x 0.3m Heavy Soil                | 1 m3           | 66.90         | 0.92             | 61              |
| 3                    | Refilling of trenches with earth in other soils 25 x 0.35m x 0.35m x 0.3m | 1 m3           | 30.82         | 0.92             | 28              |
| 4                    | Loading & Unloading of Plants                                             | 100 No.        | 46.00         | 28               | 13              |
| 5                    | Carriage of Plants (No. of plants = 25 avg. distance upto 10 km.)         | 1000 No        | 2,760.00      | 28               | 76              |
| 6                    | Spreading of plants pit to pit                                            | 100 No         | 23.00         | 25               | 6               |
| 7                    | Re-planting of Plants                                                     | 100 No         | 468.36        | 28               | 129             |
| 8                    | Spot Irrigation                                                           | 100 No.        | 368.00        | 25               | 368             |
| 9                    | Weeding & Hoeing (2 times)                                                | 100 No         | 401.12        | 1,000            | 4,011           |
| 10                   | Rejungle Clearance ( 2 times)                                             | Ha.            | 6,021.76      | 1.00             | 6,022           |
| 11                   | Pruning of plants                                                         | 100 No.        | 93.67         | 500              | 468             |
| 12                   | Watch & Ward for every 10 Ha.                                             | Man year       | 1,14,816.00   | 1 Man Year       | 11,482          |
| 13                   | POL                                                                       | L/s            |               |                  | 5,000           |
| 14                   | Material and supply                                                       | L/s            |               |                  | 5,000           |
|                      |                                                                           |                |               | <b>Sub Total</b> | <b>34,164</b>   |
| Maintenance V Year   |                                                                           |                |               |                  |                 |
| 1                    | Watch & Ward for every 10 Ha.                                             | Man year       | 1,14,816.00   | 1 Man Year       | 11,482          |
|                      |                                                                           |                |               | <b>Sub Total</b> | <b>11,482</b>   |
|                      |                                                                           |                |               | <b>TOTAL</b>     | <b>3,08,022</b> |
|                      | Over Head expenses 5%                                                     |                |               |                  | 15,401          |
|                      | Enhancement due to wage escalation @10%                                   |                |               |                  | 30,802          |
|                      |                                                                           |                |               | <b>G.Total</b>   | <b>3,54,225</b> |
|                      |                                                                           |                |               | <b>Or Say</b>    | <b>3,54,000</b> |
|                      | <b>Total Cost per plant (in Rs)</b>                                       |                | <b>708.00</b> |                  |                 |
|                      | <b>Total Cost of Plantation of 64 Plants</b>                              | <b>1 Plant</b> | <b>708.00</b> | <b>64</b>        | <b>45,312</b>   |
|                      | <b>Grand Total of Additional CA Scheme for 0.128 Ha</b>                   |                |               |                  | <b>45,312</b>   |

c/s  
  
 Conservator of Forests  
 Shivalik Circle, Punjab  
 S.A.S Nagar

  
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