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**ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION PLANTATION UNDER KHELLONG FOREST  
DIVISION**

Name of project : Construction of Y-Jn Shungetsar Jesmi to Cheema Karpola road  
 User Agency : CPWD  
 Location of CA : Doimara RF  
 Area of CA : 39.862 ha or say 39.50 ha  
 Wages rate (DL) : 333/-

|          |   | Unit | Qnt   | Rate   | Amount  |  |
|----------|---|------|-------|--------|---------|--|
| <b>A</b> | <b>Creation of Nursery</b>  |      |       |        |         |  |
|          | Cost of seedlings @ 1100 Nos. / ha.   | ha   | 43450 | 18     | 782100  |  |
| <b>1</b> | <b>1ST YEAR OPERATION</b>   |      |       |        |         |  |
|          | Survey & demarcation and preperation of map @ 4 mandays/ ha.  | ha   | 39.50 | 1332   | 52614   |  |
|          | <b>Sub Total</b>  |      |       |        |         |  |
| <b>2</b> | <b>2ND YEAR OPERATION</b>   |      |       |        |         |  |
|          | (i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt.   | Rmt  | 3500  | 231.52 | 1111296 |  |
|          | (ii) Maint. Barbed wire fencing @ 5% of erection cost in each year from 3rd year to 6th year Add.                   |      |       |        |         |  |
|          | Add 10% escalation value by multiplying factor:   |      |       |        |         |  |
|          | 1.20 for 3rd year   |      |       |        |         |  |
|          | 1.3 for 4th year  |      |       |        |         |  |
|          | 1.4 for 5th year  |      |       |        |         |  |
|          | 1.5 for 6th year  |      |       |        |         |  |
|          | <b>Sub-Total</b>  |      |       |        |         |  |
| <b>3</b> | <b>Raising of seedlings for casualty replacement</b>  | No.  | 10863 | 18.0   | 195534  |  |
|          | 3rd year 15%=165 Nos  |      |       |        |         |  |
|          | 4th year 10%= 110 Nos. Total= 275 Nos.  |      |       |        |         |  |
| <b>4</b> | <b>RAISING OF PLANTATION</b>  |      |       |        |         |  |
|          | (i) Clearance of brush wood, planting lines & staking of debries @ 15 mandays/ha.                                   | ha   | 39.50 | 53114  | 2098003 |  |
|          | (ii) Alignment of pits & preparation of stakes, staking @ 10 mandys/ha  |      |       |        |         |  |
|          | (iii) Digging of pits 30 Cm X 30 Cm X 30 Cm @ 22 mandays/ha   |      |       |        |         |  |
|          | (iv) Prepration of thala by uprooting of debris by hoeing around pits @ 22 mandays/ha                               |      |       |        |         |  |
|          | (v) Carring of sapling to the planting site i/c planting of sapling @ 30 mandays (Area II) & 20 mandays (Area-I0/ha |      |       |        |         |  |

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|   |   |    |       |       |        |  |
|---|---|----|-------|-------|--------|--|
|   | (vi) Making of inspection path<br>1mtr wide @ 3 mandays/ha                  |    |       |       |        |  |
|   | (vii) Fire line cutting 3mtrs wide<br>along the periphery @ 5<br>mandays/ha |    |       |       |        |  |
|   | (viii) Tending - 4 weeding @ 12<br>mandays/weeding/ha                       |    |       |       |        |  |
|   | Add 10% escalation value on<br>total of item 4(i) to 4(viii)                |    |       |       |        |  |
| 5 | <b>3RD YEAR OPERATION</b>   | ha | 39.50 | 17982 | 710289 |  |
|   | (i) Tending - 3 weeding @ 12<br>mandays/ha                                  |    |       |       |        |  |
|   | (ii) Casualty replacement 15%   |    |       |       |        |  |
|   | (iii) Maint. of inspection path @<br>1 manday/ha                            |    |       |       |        |  |
|   | (iv) Maint. Of fireline @ 1<br>manday/ha                                    |    |       |       |        |  |
|   | Add 20% escalation value on<br>total of item 5(i) to 5(iv)                  |    |       |       |        |  |
| 6 | <b>4TH YEAR OPERATION</b>   | ha | 39.50 | 14286 | 564297 |  |
|   | (i) Tending - 2 weedings @ 12<br>mandays/weeding/ha                         |    |       |       |        |  |
|   | (ii) Casualty replacement 10% @<br>7 mandays/ha                             |    |       |       |        |  |
|   | (iii) Maint. Of inspection path @<br>1 manday/ha                            |    |       |       |        |  |
|   | (iv) Maint. of fireline @ 1<br>manday/weeding/ha                            |    |       |       |        |  |
|   | Add 30% escalation value on<br>item 6(i) to 6(iv)                           |    |       |       |        |  |
| 7 | <b>5TH YEAR OPERATION</b>   | ha | 39.50 | 6527  | 257817 |  |
|   | (i) Tending - 1 weedings @ 12<br>mandays/weeding/ha                         |    |       |       |        |  |
|   | (ii) Maint. of inspection path @<br>1 manday/ha                             |    |       |       |        |  |
|   | (iii) Maint. Of fire line @ 1<br>manday/ha                                  |    |       |       |        |  |
|   | (iv) Add paid holiday @ 18.63%<br>on item 7(i) to 7 (iii)                   |    |       |       |        |  |
|   | Add 40% escalation value on<br>item 7(i) to 7(iv)                           |    |       |       |        |  |
| 8 | <b>6TH YEAR OPERATION</b>   | ha | 39.50 | 6993  | 276224 |  |
|   | (i) Tending - 1 weedings @ 12<br>mandays/weeding/ha                         |    |       |       |        |  |
|   | (ii) Maint. of inspection path @<br>1 mnday/ ha.                            |    |       |       |        |  |
|   | (iii) Maint. of fireline @ 1<br>manday/ha.                                  |    |       |       |        |  |
|   | Add 50% escalation value on<br>item 8(i) to 8(iii)                          |    |       |       |        |  |
| 9 | <b>7TH YEAR OPERATION</b>   | ha | 39.50 | 2664  | 105228 |  |



|    |  |     |       |         |         |  |
|----|--|-----|-------|---------|---------|--|
|    | (i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha  |     |       |         |         |  |
|    | Add 60% escalation value on total item 9(i)  |     |       |         |         |  |
| 10 | <b>8TH YEAR OPERATION</b>  | ha  | 39.50 | 2831    | 111825  |  |
|    | (i) Maint. of inspection path / fireline & climbing cutting @ 5 mandays/ha   |     |       |         |         |  |
|    | Add 70% escalation value on item 10(i)   |     |       |         |         |  |
|    | <b>Sub-Total</b>   |     |       |         |         |  |
| 11 | <b>9TH YEAR OPERATION</b>  | ha  | 39.50 | 2997    | 118382  |  |
|    | (i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha  |     |       |         |         |  |
|    | Add 80% escalation value on total of item 11(i)  |     |       |         |         |  |
| 12 | <b>10TH YEAR OPERATION</b>   | ha  | 39.50 | 3164    | 124978  |  |
|    | (i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha  |     |       |         |         |  |
|    | Add 90% escalation value on total of item 12 (i)   |     |       |         |         |  |
| 13 | Wages for plantation watchman at the rate of Un/skilled labourer round the year for 10 year (one watchman for every 25 ha) @ 10000/- for Area-I & Rs.10500/- for Area-II per month. Add escalation value by multiplying factor 1st year. | No. | 2     | 1740000 | 3480000 |  |
|    | (M.F=1.1) for 2nd year   |     |       |         |         |  |
|    | (M.F=1.2) for 3rd year   |     |       |         |         |  |
|    | (M.F=1.3) for 4th year   |     |       |         |         |  |
|    | (M.F=1.4) for 5th year   |     |       |         |         |  |
|    | (M.F=1.5) for 6th year   |     |       |         |         |  |
|    | (M.F=1.6) for 7th year   |     |       |         |         |  |
|    | (M.F=1.7) for 8th year   |     |       |         |         |  |
|    | (M.F=1.8) for 9th year   |     |       |         |         |  |
|    | (M.F=1.9) for 10th year  |     |       |         |         |  |
| 14 | a) Const. of OBT labour shed (2 room) for workers at Plantation site subject to a minimum area of 15 ha and upto 25 ha beyond 25 ha one room to be added for every 13 ha or part thereof at proportionate cost.                          | No. | 1.00  | 492000  | 492000  |  |
|    | b) Maint. Of OBT hut @ 25% of the const. Cost per year from 4th year to 6th year including escalation value by multiplying factor  |     |       |         |         |  |

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|    |  |     |       |              |                    |  |
|----|--|-----|-------|--------------|--------------------|--|
|    | 1.3 for 4th year   |     |       |              |                    |  |
|    | 1.4 for 5th year   |     |       |              |                    |  |
|    | 1.5 for 6th year   |     |       |              |                    |  |
| 15 | Approach foot track to plantation in area where necessary  | Rmt | 10000 | 6.57         | 65700              |  |
| 17 | Monitoring, Supervision (POL, Maint. of vehicles, including TE etc.) @ 12% and Contingency @ 3% to meet up unseen expenditure i.e 15% on item No.1 to16 plus Nursery cost to meet the unforeseen expenditure Rs.10546285/- |     |       |              | 1581943            |  |
| 18 | Provision for soil and moisture conservation structures (where needed) @ Rs. 7200/- per ha.  | ha  | 39.50 | 7200         | 284400             |  |
|    |  |     |       | <b>Total</b> | <b>12412628</b>    |  |
|    |  |     |       |              | or say Rs.12413000 |  |

(Rupees Two crore twenty four lakh thirteen thousand ) only

Prepared by

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