

**ESTIMATE FOR COMPENSATORY AFFORESTATION FOR CREATION
AND MAINTENANCE OF 5.166 HECT PLANTATION AT KUNDIL KALIA RF UNDER
DOOMDOOMA DIVISION AGAINST KHD(ONGC) DRILLING LOCATION .**

Location: KUNDIL KALIA R.F.

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|---|-------------|
| Area in Hactre | = 5.166 ha. |
| SPACING (m x m) | = 2 X 2 |
| No. of Saplings/ha | = 2500 |
| Length of fence (RM) | = 1081 |
| Wage Rate for first year (Rs.) | = 273 |
| Increase in wages rate for subsequent years by a factor | = 1:1 |
| Appreciation of material costs by a factor | = 1:1 |

Species to be planted: Simul , Siris, Khokon, Hollock, Sisoo, Lali, Poma, Seleng, Moss, Bhelkor, Gomari, Hengalu, Ghoraneem

| Sl No | Particulars of works | Unit | Qty/Ha | Total Qty. | Rate/unit | Amount (in Rs.) |
|----------|---|------|--------|------------|---------------------|------------------|
| A | ERECTION OF FENCING | | | | 273/DL | |
| | (a) Cost of full chain linked Goat Proof fencing (4 ft ht. with 10 Gauge, 3" dia link) to be fitted on pre-cast RCC pillars at 1.80 mt. apart including transportation of fencing materials to site for 1083 RM @ Rs.800/per RM as per estimate | RMs | - | 1081 | 800 | 864800.00 |
| | (b) Wages of Dls for carrying, fitting, fixing etc. of fencing materials @ 20 Dls/ per 100 RM | DLs | - | 216 | 273 | 58968.00 |
| | Sub-total | | | | | 923768.00 |
| B | INFRASTRUCTURE IN PLANTATION AREA | | | | | |
| | Construction of camp hut | Nos. | - | 1 | 150000 | 150000.00 |
| | Installation of ring/tube well | Nos. | - | 1 | 50000 | 50000.00 |
| | Irrigation facility with Solar generator and hose pipes for watering the nursery and plantation (during dry spells) | Nos. | - | 1 | 50000 | 50000.00 |
| | Cost of tools & implements | Nos. | - | 1 | 10000 | 10000.00 |
| | Cost of Eco friendly material display board & Gate including fitting and fixing of the same | Nos. | - | 1 | 60000 | 60000.00 |
| | Camp accessories @ Rs.10,000/per camp | Nos. | - | 1 | 10000 | 10000.00 |
| | Construction of Inspection Path 1000 RM @ Rs. 50/-RM | RMs | - | 1000 | 50 | 50000.00 |
| | Sub-total | | | | | 380000.00 |
| C | ADVANCE WORK | | | | @ Rs. 273/DL | |
| | Site selection, surveying, demarcation, jungle cutting, making compost etc. 20 Dls/Ha | DLs | 20 | 103 | 273 | 28119.00 |
| | Preparation and acquisition of bamboo pot saplings in the field nursery for planting 2500 Nos. seedlings/ha @ Rs. 6/ per polypot | Nos. | 2500 | 12915 | 6 | 77490.00 |

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|----------|---|------|-----|------|-----|------------------|
| | a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year), i.e. 625 seedlings/ha @ Rs. 6.5/-per polypot | Nos. | 625 | 3229 | 6.5 | 20989.00 |
| | b) 20% mortality expected during 2nd Year (to be planted in the field during the third year), i.e. 500 seedlings/ha @ Rs. 7/-per polypot | Nos. | 500 | 2583 | 7 | 18081.00 |
| | c) 15% mortality expected during 3 rd Year (to be planted in the field during the 4th year), i.e. 375 seedlings/ha @ Rs. 7.50 per polypot | Nos. | 375 | 1937 | 7.5 | 14528.00 |
| | d) 10% mortality expected during 4th year (to be planted in the field during the 5th year), i.e. 250 seedlings/ha @ Rs. 8/-per polypot | Nos. | 250 | 1292 | 8 | 10336.00 |
| | Cost of bamboo, making, stacking & transportation etc. | Nos. | 625 | 3358 | 1 | 3358.00 |
| | Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha. | DLs | 5 | 26 | 273 | 7098.00 |
| | Supervision & Monitoring | L.S. | | | | 10000.00 |
| | Sub-total | | | | | 189999.00 |
| D | CREATION & 1st YEAR MAINTENANCE @ Rs. 273/DL | | | | | |
| | Soil working, carriage of stump, Bamboo seedlings & planting at the plantation site including dibbling of seeds wherever necessary to complete raising of plantation with all necessary operations @ 40 DLs/ha. | DLs | 40 | 207 | 273 | 56511.00 |
| | 5 weedings, mulching & fire protection works @ 18 DLs/ha /weeding | DLs | 90 | 465 | 273 | 126945.00 |
| | Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha | DLs | 5 | 26 | 273 | 7098 |
| | Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days) | DLs | 1 | 365 | 273 | 99645.00 |
| | Maintenance of camp huts, implements, ring/tubewell, upkeep of plantation, display board, documentation, upkeep of records and other misc. work. | LS | - | - | - | 10000 |
| | Awareness and monitoring @ Rs. 800/ha | L.S. | - | | 800 | 4133.00 |
| | Sub-total | | | | | 304332.00 |
| E | 2nd YEAR MAINTENANCE @ Rs. 300/DL | | | | | |
| | 5 weedings, fire protection works @ 15 DLs/ha /weeding | DLs | 75 | 387 | 300 | 116100.00 |
| | 25% vacancy filling by 1 year old seedlings from nursery @ 10 DLs/ha | DLs | 10 | 52 | 300 | 15600.00 |
| | Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha | DLs | 5 | 26 | 300 | 7800.00 |
| | Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days) | DLs | 1 | 365 | 300 | 109500.00 |

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|----------|--|---------------------|----|-----|-----|------------------|
| | Maintenance of camp huts, implements, ring/tube-well, upkeepment of plantation, signboard, documentation, upkeepment of records etc. | L.S. | - | - | - | 11000.00 |
| | Supervision cost | L.S. | 1 | | | 4000.00 |
| | Contingency L.S. | L.S. | | | | 2500.00 |
| | Sub-total | | | | | 266500.00 |
| F | 3rd YEAR MAINTENANCE | @ Rs. 330/DL | | | | |
| | 4 weedings, fire protection works @ 15 DLs/ha /weeding | DLs | 15 | 310 | 330 | 102300.00 |
| | 20% vacancy filling by 2 year old seedlings from nursery @ 8 DLs/ha | DLs | 8 | 41 | 330 | 13530.00 |
| | Protection work, cattle watching, upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha | DLs | 5 | 26 | 330 | 8580.00 |
| | Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1DLs for 365 days) | DLs | 1 | 365 | 330 | 120450.00 |
| | Maintenance of camp huts, implements, ring/tube-well, upkeepment of plantation, display board, documentation, upkeep of records. | L.S. | - | - | - | 12100.00 |
| | Supervision cost | L.S. | 1 | | - | 4000.00 |
| | Contingency @ 15% over previous year | L.S. | | | | 2875.00 |
| | Sub-total | | | | | 263835.00 |
| G | 4th YEAR MAINTENANCE | @ Rs. 363/DL | | | | |
| | 4 weedings, fire protection works @ 15 DLs/ha/weeding | DLs | 60 | 310 | 363 | 112530.00 |
| | 15% vacancy filling by 2 years old seedlings from nursery @ 6 DLs/ha | DLs | 6 | 31 | 363 | 11253.00 |
| | Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha | DLs | 5 | 26 | 363 | 9438.00 |
| | Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days) | DLs | 1 | 365 | 363 | 132495.00 |
| | Maintenance of camp huts, implements, ring/tube-well, upkeep of plantation, display board, documentation, upkeep of records etc. | L.S. | - | - | - | 10000.00 |
| | Supervision cost | L.S. | | | | 4000.00 |
| | Contingency @ 15% over previous year | L.S. | | | | 3306.00 |
| | Sub-total | | | | | 283022.00 |

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| H | 5th YEAR MAINTENANCE | | | | @ Rs. 399/DL | |
| | Climber cutting, weeding and other silvicultural works & fire protection works @ 8 DLs/ha | DLs | 8 | 41 | 399 | 16359.00 |
| | 10% vacancy filling by 2 years old seedlings from nursery @ 4 DLs/ha | DLs | 4 | 21 | 399 | 8379.00 |
| | Maintenance & fencing post replacement @ 3% initial cost of material | | | 0.03 | 864800 | 25944.00 |
| | Upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha | DLs | 4 | 21 | 399 | 8379.00 |
| | Watch & ward for the plantation area (1 DLs for 365 days) | DLs | 1 | 365 | 399 | 145635.00 |
| | Maintenance of camp hut, implements, ring/tube – well, upkeepment of plantation, display board, documentation and upkeep of records etc. | L.S. | - | - | - | 15000.00 |
| | Supervision cost | L.S. | | | | 4000.00 |
| | Contingency @ 15% over previous year | L.S. | | | | 3802.00 |
| Sub-total | | | | | | 227498.00 |
| I | 6th YEAR MAINTENANCE | | | | @ Rs. 439/DL | |
| | Climber cutting, other silvicultural works & fire protection works @ 15 DLs/ha | DLs | 15 | 77 | 439 | 33803.00 |
| | Upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha | DLs | 4 | 21 | 439 | 9219.00 |
| | Watch & ward for the plantation area (1 DLs for 365 days) | DLs | 1 | 365 | 439 | 160235.00 |
| | Maintenance of camp hut, implements, ring/tube– well, upkeepment of plantation, signboard, documentation and upkeepment of records etc. | L.S. | - | - | - | 15000.00 |
| | Supervision cost | L.S. | | | | 4000.00 |
| | Contingency @ 15% over previous year | L.S. | | | | 4373.00 |
| Sub-total | | | | | | 226630.00 |
| J | 7th YEAR MAINTENANCE | | | | @ Rs. 483/DL | |
| | Climber cutting, other silvicultural works & fire protection works @ 12 DLs/ha | DLs | 12 | 62 | 483 | 29946.00 |
| | Protection work, cattle watching, upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha | DLs | 5 | 26 | 483 | 12558.00 |
| | Maintenance of camp hut, implements, ring/tube– well, upkeep of plantation, display board, documentation and upkeepment of records etc. | L.S. | - | - | - | 18000.00 |
| | Supervision cost | L.S. | - | - | - | 4000.00 |
| | Contingency @ 15% over previous year | L.S. | | | | 5028.00 |
| Sub-total | | | | | | 69532.00 |
| K | 8th YEAR MAINTENANCE | | | | @ Rs. 531/DL | |
| | Climber cutting, other silvicultural works & fire protection works @ 8 DLs/ha | DLs | 8 | 41 | 531 | 21771.00 |
| | Protection work, cattle watching, upkeepment of | DLs | 5 | 26 | 531 | 13806.00 |

| | | | | | | |
|----------|--|------|---|----|---------------------|-------------------|
| | plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha | | | | | |
| | Maintenance of camp hut, implements, ring/tube-well, upkeep of plantation, display board, documentation and upkeepment of records etc. | L.S. | - | - | - | 20000.00 |
| | Supervision cost | L.S. | - | - | - | 4000.00 |
| | Contingency @ 15% over previous year | L.S. | - | - | - | 5783.00 |
| | Sub-total | | | | | 65360.00 |
| L | 9th YEAR MAINTENANCE | | | | @ Rs. 584/DL | |
| | Climber cutting, other silvicultural works & fire protection works @ 7 DLs/ha | DLs | 7 | 36 | 584 | 21024.00 |
| | Protection work, cattle watching, upkeep of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha | DLs | 5 | 26 | 584 | 15184.00 |
| | Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, display board, documentation and upkeepment of records etc. | L.S. | - | - | - | 22000.00 |
| | Supervision cost | L.S. | - | - | - | 4000.00 |
| | Contingency @ 15% over previous year | L.S. | - | - | - | 6650.00 |
| | Sub-total | | | | | 68858.00 |
| M | 10th YEAR MAINTENANCE | | | | @ Rs. 642/DL | |
| | Climber cutting, other silvicultural works & fire protection works @ 6 DLs/ha | DLs | 6 | 31 | 642 | 19902.00 |
| | Protection work, cattle watching, upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 4 Dls/ha | DLs | 4 | 21 | 642 | 13482.00 |
| | Maintenance of camp hut, implements, ring/tube-well, upkeep of plantation, display board, documentation and upkeepment of records etc. | L.S. | - | - | - | 25000.00 |
| | Supervision cost | L.S. | - | - | - | 4000.00 |
| | Contingency @ 15% over previous year | L.S. | - | - | - | 7648.00 |
| | Sub-total | | | | | 70032.00 |
| | Total | | | | | 3339366.00 |
| | Overhead cost @50% of the total cost | | | | | 1669683.00 |
| | Grand total | | | | | 5009049.00 |

(Rupees fifty lakh nine thousand forty nine) only.

Submitted,

Divisional Forest Officer,
Doomdooma Division,
DoomDooma.

Technically Approved
Technically Approved


Conservator of Forests
Eastern Assam Circle
JORHAT

ABSTRACT

| Sl No. | Items | Amount(in Rs.) |
|--------|---|-------------------|
| 1 | A. Erection of fencing | 923768.00 |
| | B. Infrastructure in plantation area. | 380000.00 |
| | C. Advance work. | 189999.00 |
| | D. 1 st year creation and maintenance. | 304332.00 |
| 2 | E. 2 nd year maintenance | 266500.00 |
| 3 | F. 3 rd year maintenance | 263835.00 |
| 4 | G. 4 th year maintenance | 283022.00 |
| 5 | H. 5 th year maintenance | 227498.00 |
| 6 | I. 6 th year maintenance | 226630.00 |
| 7 | J. 7 th year maintenance | 69532.00 |
| 8 | K. 8 th year maintenance | 65360.00 |
| 9 | L. 9 th year maintenance | 68858.00 |
| 6 | M. 10 th year maintenance | 70032.00 |
| | Total | 3339366.00 |
| | Overhead cost @50% of the total cost | 1669683.00 |
| | Grand total | 5009049.00 |

- (Rupees fifty lakh nine thousand forty nine) only.

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