

MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION

ON ALLOTTED NON FOREST LAND

UNIT : 50 Ha
 PERIMETER: 60 M/Ha.
 LABOUR RATE: Rs.166/Day
 COST ESTIMATE: in Rs./Ha.

ADVANCE ACTION (0 YEAR)

| S.No | ITEMS | RATE (Rs.) | LABOUR | MATERIAL | TOTAL |
|------|--|-------------|--------------|-------------|-----------------|
| | | | COMPONENT | COMPONENT | |
| 1 | Collection of Basic Datas for Microplanning and carrying out joint forest managment activities. | 434 / ha | 387 | 47 | 434.00 |
| 2 | Survey of area, lay out of contour trenches, burrowpits and making of segments / plots | 352/ha | 305 | 47 | 352.00 |
| 3 | Fencing by stone wall and or by ditch. | | | | 0.00 |
| | a.) Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha) | 166/rmt | 4980 | | 4980.00 |
| | b.) Ditch fencing 1.20m deep,1.50m wide at top & 0.90m at bottom (on an average 30m/ha) | 180.76/rmt | 5423 | | 5423.00 |
| 4 | Cost of raising 1210 seedlings in nursery. | 3.18/- per | 2232 | 1617 | 3849.00 |
| 5 | Digging of 500 pits size: 0.45x(4+ 5/2)2 | 12.98/ pit | 6490 | | 6490.00 |
| 6 | Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement | 20.87/rmt | 8348 | | 8348.00 |
| 7 | Construction of 15 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub species seeds along its innerside | 22.47/ rmt. | 337 | | 337.00 |
| 8 | Treatment of Nallas by construction series of Checkdams of dry ramdom rubble/earthan/brushwood | Prorata | 484 | | 484.00 |
| 9 | Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column | Prorata | 53 | 91 | 144.00 |
| 10 | Construction of approach road and inspection path | Prorata | 183 | | 183.00 |
| 11 | Watch and ward @9720 per month for 4 months | Prorata | 957 | | 957.00 |
| 12 | Construction of Thatched cattle guard hut | Prorata | 93 | 73 | 166.00 |
| 13 | Cost of grass and other seeds | Prorata | | 227 | 227.00 |
| 14 | Labour amunities | Prorata | 61 | 80 | 141.00 |
| 15 | Purchase of tools and plants | Prorata | | 103 | 103.00 |
| 16 | Purchase or construction of water storage tank. | Prorata | 52 | 45 | 97.00 |
| 17 | Purchase of signboards and their fixing | Prorata | 20 | 86 | 106.00 |
| 18 | Misc. and unforeseen expenses including running of vehicles | Prorata | 101 | 159 | 260.00 |
| | TOTAL YEAR 0 | | 30506 | 2575 | 33081.00 |
| 19 | Administrative charges 10% | | | | 3308.10 |
| | TOTAL | | | | 36389.10 |

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 (Signature)
 03.08.2014

YEAR I (PLANTING YEAR)

| | | | | | |
|----|--|---------------|--------------|-------------|-----------------|
| 1 | Collection of datas regarding impact assesment and strengthening Joint Forest Management. | Prorata | | 68 | 68.00 |
| 2 | Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in 1/4th area | 52/ha | 52 | | 52.00 |
| 3 | Digging of 600 pits of size 0.45 (4+5/2)*2 Cum | 12.98/ pit | 7788 | | 7788.00 |
| 4 | Construction of silt detention dams/smal anicut/check dams, etc. | Prorata | 2082 | 239 | 2321.00 |
| 5 | Maintenance of 1210 seedling in nursery | 1.61 / plant | 1629 | 319 | 1948.00 |
| 6 | Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs. (150 plant/ ha) | 3.03/plant | 454 | | 454.00 |
| 7 | Sowing of pellats of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing. | Prorata | 648 | 58 | 706.00 |
| 8 | Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (370 rmt.) | 0.45/ rmt. | 155 | 11 | 166.00 |
| 9 | Sowing of seeds of shrub spp. on 60 mt. "V" ditch | Prorata | 27 | 3 | 30.00 |
| 10 | Transportation of 1100 plants from nursery to planting site | 1.07/plant | 1108 | 64 | 1172.00 |
| 11 | Planting of 1100 seedlings including Refilling of pits | 3.02/plant | 3322 | | 3322.00 |
| 12 | Making of 1100 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound. | 2.64/plant | 2904 | | 2904.00 |
| 13 | Spot watering & application of insecticides in 1100 plants in case of advance planting. | 2.34/plant | 2574 | | 2574.00 |
| 14 | Additional watering in case of long drought spell with insecticide. | 2.34/plant | 2574 | | 2574.00 |
| 15 | Weeding and hoeing of 1100 plants in 2 times. | 2.64/plant | 5808 | | 5808.00 |
| 16 | One additional hoeing of 1100 plants. | 1.5/ plant | 1650 | | 1650.00 |
| 17 | Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing | Prorata | 521 | | 521.00 |
| 18 | Purchase of insecticide and Fertilizers for 1100 plants. | 0.77/plant | | 847 | 847.00 |
| 19 | Raising of 110 seedlings in nursery for casualty replacement in year-2 (10% of 1100) | 3.18/seedling | 203 | 147 | 350.00 |
| 20 | Watch and ward @9720 per month for 12 months | prorata | 2869 | | 2869.00 |
| 21 | Special protection of frost tender species | Prorata | 27 | 34 | 61.00 |
| 22 | Labour amunities. | Prorata | 128 | 22 | 150.00 |
| 23 | Repairs of fencing | 160/hact. | 152 | 9 | 161.00 |
| 24 | Repairs of check dams. | Prorata | 55 | 5 | 60.00 |
| 25 | Micellaneous and unforeseen expenditure. | Prorata | 104 | 109 | 213.00 |
| | TOTAL YEAR 1 | | 36834 | 1935 | 38769.00 |
| 26 | Administrative charges 10% | | | | 3876.90 |
| | TOTAL | | | | 42645.90 |

District Forest Officer
 District Forest Office
 Bhopal

First Year Maintenance (year 2)

| | | | | | |
|----|--|-------------|--------------|------------|-----------------|
| 1 | Collection of datas regarding impact assesment and strengthening Joint Forest Management. | Prorata | | 68 | 68.00 |
| 2 | Maintenance of 110 Seedling in nursery for casualty replacement in 2nd year | 1.61 /plant | 148 | 29 | 177.00 |
| 3 | Casualty replacement 110 plants including redigging of pits, transportation planting, watering | 8.63/plant | 885 | 65 | 950.00 |
| 4 | Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.) | 0.45/ rmt. | 79 | 5 | 84.00 |
| 5 | Weeding and Hoeing in 1100 plants in pits two times | 2.64/plant | 5808 | | 5808.00 |
| 6 | Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacement in the line sowing. (185 rmt.) | 2.82/plant | 521 | | 521.00 |
| 7 | Repair of fencing | 161/-ha. | 152 | 9 | 161.00 |
| 8 | Repairing of Check dams | Prorata | 105 | 11 | 116.00 |
| 9 | Pruning of Trees species to boost up the growth | Prorata | 161 | 12 | 173.00 |
| 10 | Wages of Chowkidar @ Rs. 9720/ month (only applicable to work chage employee) | prorata | 2867 | | 2867.00 |
| 11 | Misc. and unforeseen expenditure | prorata | 103 | 63 | 166.00 |
| | TOTAL YEAR 2 | | 10829 | 262 | 11091.00 |
| 12 | Administrative charges 10% | | | | 1109.10 |
| | TOTAL | | | | 12200.10 |

SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)

| | | | | | |
|---|---|-----------|-------------|------------|----------------|
| 1 | Collection of datas regarding impact assesment and strengthening Joint Forest Management. | Prorata | | 68 | 68.00 |
| 2 | Repair of fencing | 161/hact. | 152 | 9 | 161.00 |
| 3 | Repairing of Check dams | Prorata | 5 | 6 | 11.00 |
| 4 | Pruning of Trees species to boost up the growth | Prorata | 80 | 4 | 84.00 |
| 5 | Wages of Chowkidar @ Rs. 9720/- month (only applicable to work chage employee) | prorata | 2869 | | 2869.00 |
| 6 | Maintenance of Vehicles | prorata | 154 | 97 | 251.00 |
| | TOTAL YEAR 3. | | 3260 | 184 | 3444.00 |

| | | | | | |
|----------------------------|--|--|--|--|----------------|
| Administrative charges 10% | | | | | 344.40 |
| Total | | | | | 3788.40 |

| | | | | | |
|--------------------|------------------|--|--|--|--|
| GRAND TOTAL | | | | | |
| 0Year | 36389.10 | | | | |
| First Year | 42645.90 | | | | |
| Second Year | 12200.10 | | | | |
| Third Year | 3788.40 | | | | |
| Fourth Year | 3788.40 | | | | |
| Fifth Year | 3788.40 | | | | |
| Sixth Year | 3788.40 | | | | |
| Seventh Year | 3788.40 | | | | |
| Eighth year | 3788.40 | | | | |
| Ninth Year | 3788.40 | | | | |
| Tenth Year | 3788.40 | | | | |
| Eleventh Year | 3788.40 | | | | |
| Twelfth Year | 3788.40 | | | | |
| Total | 129119.10 | | | | |

Say $129150 \times 2.00 \text{ hy.} = 258300/-$

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 (मनमूल सिंह)
 ज.व.स. (प्रा.)
 म.सु.व.स. (वि.प्र.सं.सं.)
 राज., जयपुर

Oh
 Sunil chidh
 DCF Suran