

**DIVERSION OF 2.9696 HA. OF FOREST LAND FOR CONSTRUCTION OF SOLID
WASTE MANAGEMENT PLANT IN DHARAMSHALA, DISTRICT KANGRA, (H.P.)**

FILE NO. : FP/HP/Others/48483/2020

DATE OF PROPOSAL :

**CHECK LIST SERIAL NUMBER: - 17
“SCHEME FOR COMPENSATORY AFFORESTATION”**

Detail scheme for Compensatory Afforestation to be carried out in lieu of 2.9696 ha. of forest area to be diverted for the construction of Solid Waste Management Plant in Dharamshala in District Kangra H.P.

1. Detail of degraded forest land :

| District Kangra, Tehsil Dharamshala, Division Dharamshala. | Dharamshala Range, Block/Comptt. No. CFS Khanyara | Area to be Afforested – 5.95 HA |
|---|--|--|
| | Total | 5.95 HA |

2. Description of Area

| | | |
|----|--|-----------------|
| a. | Whether the site selected for Compensatory Afforestation is a land bank or not | Land Bank |
| b. | If the CA site is other than the land bank, reasons be given | Not Applicable |
| c. | In case of non- forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary | Not Applicable |
| d. | Soil type | Sandy Loam |
| e. | Topography : a.) Hilly/Undulating /Plain b.) Slope- Steep/Medium/Gentle | Hilly Medium |
| f. | Whether the area is bearing any root stock of vegetation | Yes |

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial breakup to be enclosed.

4. Schedule of Plantation Programme

Detail of year wise break-up of requirements of funds is as under:-

| YEAR | AREA | RATE / ha (in Rs.) | TOTAL AMOUNT |
|-----------------------------|-----------|--------------------|------------------------|
| 0 Year | 5.95 Hac. | 102370 | 609101 |
| 1 st Year | 5.95 Hac. | 14720 | 87584 |
| 2 nd Year | 5.95 Hac. | 9880 | 58786 |
| 3 rd Year | 5.95 Hac. | 6920 | 41174 |
| 4 th Year | 5.95 Hac. | 6920 | 41174 |
| 5 th Year | 5.95 Hac. | 6920 | 41174 |
| 6 th Year | 5.95 Hac. | 6920 | 41174 |
| 7 th Year | 5.95 Hac. | 6920 | 41174 |
| 8 th Year | 5.95 Hac. | 6920 | 41174 |
| 9 th Year | 5.95 Hac. | 6920 | 41174 |
| 10 th Year | 5.95 Hac. | 6920 | 41174 |
| TOTAL (Rs.) | | | 1084863 |
| Contingency Charges 5 % | | | 54243 |
| TOTAL (Rs.) | | | 1139106 |
| Departmental Charges 17.5 % | | | 199344 |
| TOTAL (Rs.) | | | 1338450 |
| | | OR SAY | Rs. 13,38,450/- |

5. Technical details

Technical details of Compensatory Afforestation Scheme are as follows:-

| | | |
|----|--|---|
| a. | General Details | Area for Compensatory Afforestation in Forest Range Dharamshala Area 5.95 Hac. |
| b. | Spacing | 2.5 X 2.5 |
| c. | Species | Mix Broad Leave |
| d. | Plantation Method | By pits 30 cm & 45 cm. |
| e. | Soil and Moisture Conservation Works | Check dam / Retaining walls / Vegetative check dam |
| f. | Protection (Fencing, Watch man, People's Participation etc.) | Fencing, Watch man, People's Participation etc. Fencing 5 Stand Barbed Wire interlacing with thorny bushes. |
| g. | Proposed Monitoring Mechanism | Proper inspection of the area by field staff & officers of the Department. |
| h. | Any other information | N.A. |

Place : Dharamshala

Dated :

Dr. Sanjeev Sharma (HPFS)
Divisional Forest Officer
Dharamshala Forest Division
Dharamshala

DIVERSION OF 2.9696 HA. OF FOREST LAND FOR CONSTRUCTION OF SOLID WASTE MANAGEMENT PLANT**IN DHARAMSHALA, DISTRICT KANGRA (H.P.)****FILE NO. : FP/HP/Others/48483/2020****DATE OF PROPOSAL :**

Scheme for Compensatory Afforestation for 2021-22 in lieu of Diversion of 2.9696 ha of forest land for Construction of Solid Waste Management Plant at Dharamshala, in District Kangra, H. P.

| Sr. No. | Particulars of work | Unit | Qty. | Rate per Unit at wage rate of Rs. 150/- | Amount @ Rs. 150/- for Non Tribal Areas | Mandays Involved | Amount at wage rate of Rs. 300/- |
|--|--|----------|------|---|---|--------------------------|----------------------------------|
| A | Survey, Demarcation & Fencing Cost | | | | | | |
| 1 | Survey & demarcation of plantation area | ha. | 1 | 101.00 | 101.00 | 0.67 | 202.00 |
| 2 | Preparation/purchase of RCC Fence posts. | No. | 50 | 358.00 | 12500.00 | 0.00 | 17900.00 |
| 3 | Carriage of RCC Fence posts up to 165 cm long over distance 2 Km uphill/downhill. | Km/ No. | 50 | 33.50 | 33.50 | 22.33 | 6700.00 |
| 4 | Preparation/digging of holes of 20x30x50 cm size | No. | 50 | 9.06 | 453.00 | 3.02 | 906.00 |
| 5. | Fixing of RCC fence posts including strutting. | No. | 50 | 7.16 | 358.00 | 2.39 | 716.00 |
| 6 | Carriage of Barbed wire over distance 2 Km. uphill / downhill | Km/ Qtl. | 0.75 | 73.65 | 110.48 | 0.74 | 220.95 |
| 7 | Stretching & fixing of barbed wire in 4 strands | Rmt. | 600 | 4.80 | 2880.00 | 19.20 | 5760.00 |
| 8 | Interlacing of Thorny bushes along the fence | Rmt. | 150 | 4.09 | 613.50 | 4.09 | 1227.00 |
| 9 | Cost of Barbed Wire | Qtl. | 0.75 | 6510.00 | 4882.50 | 0.00 | 4882.00 |
| 10 | Nursery Cost of Plants | No. | 1100 | 17.00 | 17.00 | 0.00 | 18700.00 |
| Total - A (Survey, Demarcation & Fencing) | | | | | | 57213.96 | |
| | | | | | | or Say | 57210 |
| B | Planting Cost | | | | | | |
| 1 | Digging of pits 45x45x45 cm | ha. | 1100 | 1192.80 | 1192.80 | 7.95 | 2385.60 |
| 2 | Filling of pits 45x45x45 cm. | No. | 1100 | 9.54 | 10494.00 | 69.96 | 20988.00 |
| 3 | Carriage of plants in P/bags over distance 2 km. uphill. | No. | 1100 | 2.72 | 2882.00 | 19.95 | 5984.00 |
| 4 | Planting of entire plant raised in P.bags. | Km/ No. | 1100 | 1.90 | 4180.00 | 27.87 | 8360.00 |
| 5 | Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour. | No. | 1100 | 2.18 | 2398.00 | 15.99 | 4796.00 |
| | | Rmt. | 100 | 11.00 | 1100.00 | 7.33 | 2200.00 |
| | | No. | 0 | LS | 450.00 | 0 | 450.00 |
| Total - B (Planting Cost) | | | | | | 45163.59 | |
| | | | | | | or Say | 45160 |
| | | | | | | Grand Total (A+B) | 102370 |
| 1st Year Maintenance Cost (30 % Beating Up): | | | | | | | |
| 1 | Re-digging of Pits 45 x 45 x 45 cm | No. | 330 | 4.77 | 1574.1 | 10.49 | 3148.20 |
| 2 | Filling of Pits 45 x 45 x45 cm | No. | 330 | 2.72 | 897.60 | 5.98 | 1795.20 |
| 3 | Planting of Plants raised in P/Bags | No. | 330 | 2.18 | 719.40 | 4.80 | 1438.80 |
| 4 | Nursery Cost of Plants | No. | 330 | 17.00 | 17.00 | 0.00 | 5610.00 |
| 5 | Carriage of Plants in P/Bags over a distance of 2 Km uphill/ downhill | Km/ No. | 330 | 1.90 | 1254.00 | 8.36 | 2508.00 |
| 6 | Repair of Fencing | Rmt. | 60 | 1.80 | 108.00 | 0.72 | 216.00 |
| Total/ 1st Year Maintenance Cost | | | | | | 14716.20 | |
| | | | | | | or Say | 14720 |

2nd Year Maintenance Cost (20 % Beating Up):

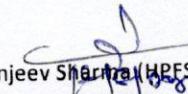
| | | | | | | | |
|----------------------------------|---|------------|-----|-------|--------|----------------|---------|
| 1 | Re-digging of Pits 45 x 45 x 45 cm | No. | 220 | 4.77 | 1049.4 | 7.00 | 2098.80 |
| 2 | Filling of Pits 45 x 45 x45 cm | No. | 220 | 2.72 | 598.40 | 3.99 | 1196.80 |
| 3 | Planting of Plants raised in P/Bags | No. | 220 | 2.18 | 479.60 | 3.20 | 959.20 |
| 4 | Nursery Cost of Plants | No. | 220 | 17.00 | 17.00 | 0.00 | 3740.00 |
| 5 | Carriage of Plants in P/Bags over a distance of 2 Km uphill/ downhill | Km/ No. | 220 | 1.90 | 836.00 | 5.57 | 1672.00 |
| 6 | Repair of Fencing | Rmt. | 60 | 1.80 | 108.00 | 0.72 | 216.00 |
| Total/ 2nd Year Maintenance Cost | | | | | | 9882.81 | |
| or Say | | | | | | 9880 | |

3rd Year to 10th Year Maintenance Cost (10 % Beating Up):

| | | | | | | | |
|----------------------------------|---|------------|-----|-------|--------|----------------|---------|
| 1 | Re-digging of Pits 45 x 45 x 45 cm | No. | 220 | 4.77 | 524.7 | 3.50 | 1049.40 |
| 2 | Filling of Pits 45 x 45 x45 cm | No. | 220 | 2.72 | 299.20 | 1.99 | 598.40 |
| 3 | Planting of Plants raised in P/Bags | No. | 220 | 2.18 | 239.80 | 1.60 | 479.60 |
| 4 | Nursery Cost of Plants | No. | 220 | 17.00 | 17.00 | 0.00 | 3740.00 |
| 5 | Carriage of Plants in P/Bags over a distance of 2 Km uphill/ downhill | Km/ No. | 220 | 1.90 | 418.00 | 2.79 | 836.00 |
| 6 | Repair of Fencing | Rmt. | 60 | 1.80 | 108.00 | 0.72 | 216.00 |
| Total/ 1st Year Maintenance Cost | | | | | | 6919.39 | |
| or Say | | | | | | 6920 | |

| | | | | | | | |
|---|------------------------------------|--|--|--|--|--|------------------|
| C | Survey, Demarcation & Fencing Cost | | | | | | 57210 |
| D | Planting Cost | | | | | | 45160 |
| E | 1st year Maintenance | | | | | | 14720 |
| F | 2 nd year Maintenance | | | | | | 9880 |
| G | 3 rd year Maintenance | | | | | | 6920 |
| H | 4 th year Maintenance | | | | | | 6920 |
| I | 5 th year Maintenance | | | | | | 6920 |
| J | 6 th year Maintenance | | | | | | 6920 |
| K | 7 th year Maintenance | | | | | | 6920 |
| L | 8 th year Maintenance | | | | | | 6920 |
| M | 9 th year Maintenance | | | | | | 6920 |
| N | 10 th year Maintenance | | | | | | 6920 |
| | Total | | | | | | 182330 |
| O | Constituency Charges @ 5% | | | | | | 9117 |
| | Total | | | | | | 191446.50 |
| P | Departmental Charges @ 17.5% | | | | | | 33503 |
| | Grand Total (C to P) | | | | | | 224950 |
| | Total Cost of CA for 1 ha | | | | | | 224950 |

Total Cost Of CA for 5.95 ha is Rs 224950 x 5.95 ha = Rs 13,38,450/-


 Dr. Sanjeev Sharma (HES)
 Divisional Forest Officer
 Dharamshala Forest Division
 Dharamshala, District Kangra