

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

DATE OF PROPOSAL :

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):

1st Year Maintenance Cost (50 % Budgeting)							
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 x 45 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 Mentenance 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 x 45 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 x 45 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 (HPFS)
Divisional Forest Officer
Dharamshala Forest Division
Dharamshala, District Kangra