

**DIVERSION OF 0.6806 HA. OF FOREST LAND FOR CONSTRUCTION OF LOWER IKU
SMALL HYDRO PROJECT 1 MW IN DISTRICT KANGRA (H.P.)**

FILE NO. : **FP/HP/HYD/41472/2019**

DATE OF PROPOSAL :

CHECK LIST SERIAL NUMBER: - 17

“SCHEME FOR COMPENSATORY AFFORESTATION”

Detail scheme for Compensatory Afforestation for Plantation of 1362 number of Plants in 1.36 ha area, to be carried out in lieu of 0.6806 ha. of forest area to be diverted for the construction of Lower Iku Small Hydro Project (1 MW) in District Kangra.

1. Detail of degraded forest land /non-forest land:

District Kangra : UP 145 K Dhar Narwana

Tehsil : Dharamshala

Name of Division : Kangra

Range : Mallan

Area to be afforested – 1.36 Hac.

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	AMOUNT (in Rs)
0 Year	1.36 Hac. (1362 Plants)	3,67,043 /-
1 st Year	1.36 Hac. (1362 Plants)	36,952 /-
2 nd Year	1.36 Hac. (1362 Plants)	25,537 /-
3 rd Year	1.36 Hac. (1362 Plants)	14,311 /-
4 th Year	1.36 Hac. (1362 Plants)	15,333 /-
5 th Year	1.36 Hac. (1362 Plants)	16,355 /-
6 th Year	1.36 Hac. (1362 Plants)	17,377 /-
7 th Year	1.36 Hac. (1362 Plants)	18,400 /-
8 th Year	1.36 Hac. (1362 Plants)	19,422 /-
9 th Year	1.36 Hac. (1362 Plants)	20,444 /-
10 th Year	1.36 Hac. (1362 Plants)	21,466 /-
TOTAL (Rs.)		5,72,640 /-
Contingency Charges 5 %		28,632 /-
TOTAL (Rs.)		6,01,272 /-
Departmental Charges 17.5 %		1,05,223 /-
GRAND TOTAL (Rs.)		7,06,495 /-

5. Technical details

Technical details of Compensatory Afforestation Scheme are as follows:-

a.	General Details	Area for Compensatory Afforestation in UP 145K Dhar Narwana, Malan Range in <u>Dharamshala Division</u> area 1.36 Hac.
b.	Spacement	2.5 X 2.5
c.	Species	Tall Plants, Arjun, Tuni, Ambla, Mix Fruit Bearing trees.
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 : 31-05-2023

Divisional Forest Officer
Dharamshala Forest Division
Dharamshala

DIVERSION OF 0.6806 HA. OF FOREST LAND FOR CONSTRUCTION OF LOWER IKU SMALL HYDRO PROJECT, TEHSIL DHARAMSHALA, DISTRICT KANGRA, (H.P.)

FILE NO.


FP/HP/HYD/41472/2019

DATE OF PROPOSAL

Scheme for Compensatory Afforestation for 2022-23 in lieu of Diversion of 0.6806 ha of forest land for Construction of Lower Iku Small Hydro Project in District Kangra, H. P.

Village Narwana, Forest Division Dharamshala, Malan Forest Range, District Kangra, Compartment No. UP 145K Dhar Narwana, 1362 Plants in Area 1.36 Hac.

Sr. No.	Particulars of work				Qty.	Unit	Rate per Unit at wage rate of Rs. 150/-	Amount @ Wage Rate of Rs.350/- for Non Tribal Areas
1	Survey & demarcation of plantation area				1.36	Ha.	101.00	320.51
2	Bush Cutting in Strips				1.36	Ha.	1192.80	3785.15
3	Collection of Debris and Burning				1.36	Ha.	681.80	2163.58
4	Preparation of Inspection Path 60 cm wide				340	m	11.00	8726.67
5	Digging of pits 60x60x60 cm				1362	No.	1745%	55456.10
6	Filling of pits 60x60x60 cm.				1362	No.	254%	8072.12
7	Carriage of plants in P/bags from nursery to work site over distance 1 km. (level)				1362	No.	1476%	46907.28
8	Planting of tall plants including ramming				1362	No.	654%	20793.65
9	Cost of RCC fence posts				75	No.	358.00	62650.00
10	Carriage of RCC Fence Post				75	No.	L/S	17200.00
11	Fixing of RCC Posts including strutting				75	No.	696.35%	1218.61
12	Stretching and fixing of barbed wire with U-staple in four strands				873	Rmt.	4.80	9777.60
13	Interlacing of thorny bushes with barbed wire				291	Rmt.	4.00	2716.00
14	Cost of barbed wire				0.130	MT.	65100.00	8463.00
15	Cost of U -staple				0.002	MT.	64000.00	96.00
16	Mulching of plants				1362	No.	84.80%	2694.94
17	Irrigation as per need/photography etc.					L/s		5000.00
18	Nursery Cost of Tall Plant				1362	No.	57.00	77634.00
	Total							333675.21
Total Planting Cost								333675.00
Add 10 % Increase								33368.00
Total Plantation Cost (A)								367043.00
	MAINTENANCE COST							
	Year	Amount	Number of Plants	Cost of Plants	Total Amount	Increase %	Increased Amount	Total Maintenance Cost
1	1st year Maintenance	7480	409	57	30793	20%	6159	36952
2	2 nd year Maintenance	4140	272	57	19644	30%	5893	25537
3	3 rd year Maintenance	2470	136	57	10222	40%	4089	14311
4	4 th year Maintenance	2470	136	57	10222	50%	5111	15333
5	5 th year Maintenance	2470	136	57	10222	60%	6133	16355
6	6 th year Maintenance	2470	136	57	10222	70%	7155	17377
7	7 th year Maintenance	2470	136	57	10222	80%	8178	18400
8	8 th year Maintenance	2470	136	57	10222	90%	9200	19422
9	9 th year Maintenance	2470	136	57	10222	100%	10222	20444
10	10 th year Maintenance	2470	136	57	10222	110%	11244	21466
Total Maintenance Cost (B)								205597.00
Grand Total (A + B)								572640.00
Constituency Charges @ 5%								28632.00
Total								601272.00
Departmental Charges @ 17.5%								105223.00
Grand Total								706495.00
Total Cost of CA for 1362 Tall Plants								706495.00


 Divisional Forest Officer
 Dharamshala Forest Division
 Dharamshala, District Kangra
Dharamshala