

**DIVERSION OF 0.5151 HA. OF FOREST LAND FOR CONSTRUCTION OF LOWER IKU - I**  
**SMALL HYDRO PROJECT 1 MW IN DISTRICT KANGRA (H.P.)**

**FILE NO. : FP/HP/HYD/41533/2019**

**DATE OF PROPOSAL :**

**PART-II**

**(To be filled by the concerned Deputy Conservator of Forests)**

State serial No. of proposal \_\_\_\_\_

<b>7. Location of the project/Scheme:</b>	
i. State/Union Territory	<b>Himachal Pradesh</b>
ii. District.	<b>Kangra</b>
iii. Forest Division	<b>Dharamshala Forest Division</b>
iv. Area of forest land proposed for diversion (in ha.)	<b>0.5151 hac.</b>
iv. Legal status of forest	<b>0.4949 (Unprotected Forest) 0.0202 (Unclassed Forests)</b>
v. Density of vegetation.	<b>0.1</b>
vi. Species-wise (scientific names) and diameter class-wise enumeration of trees (to be enclosed. In case of irrigation / hydel projects enumeration at FRL, FRL-2 meter & FRL-4 meter also to be enclosed.)	<b>Yes, the list is attached at Page Sr. No.</b>
vii. Brief note on vulnerability of the forest area to erosion.	<b>The area in question is not vulnerable to land slide.</b>
viii. Approximate distance of proposed site for diversion from boundary of forest.	<b>0.500 kms.</b>
ix. Whether forms part of National Park, wildlife sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc. (If so, the details of the area and comments of the Chief Wildlife Warden to be annexed).	<b>No</b>
x. Whether any rare/ endangered/ unique species of flora and fauna found in the area- if so details thereof.	<b>No</b>
xi. Whether any protected archaeological /heritage site/defence establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required.	<b>No</b>

8. Whether the requirement of forest land as proposed by the user agency in col. 2 of Part-I is unavoidable and barest minimum for the project. If no, recommended area item-wise with details of alternatives examined.	<b>Yes, the area proposed for diversion is unavoidable and barest minimum for the project.</b>
9. Whether any work in violation of the Act has been carried out (Yes/No). If yes, details of the same including period of work done, action taken on erring officials. Whether work in violation is still in progress.	No
10. Details of compensatory afforestation scheme:	
i. Details of non forest area/degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of each patch.	<b>Enclosed at page No</b>
ii. Map showing non-forest/degraded forest area identified for compensatory afforestation and adjoining forest boundaries.	<b>Enclosed at page No</b>
iii. Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure, etc.	<b>Enclosed at page No</b>
iv. Total financial outlay for compensatory afforestation scheme.	<b>Rs. 3,53,221/-</b>
v. Certificates from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view. (To be signed by the concerned Deputy Conservator of Forests).	<b>Enclosed at Page No.</b>
11. Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7 (xi, xii), 8 and 9 above.	<b>Enclosed at Page No.</b>
12. Division/District profile:	
i. Geographical area of the district.	<b>573900 ha</b>
ii. Forest area of the district.	<b>61061.58 ha</b>
iii. Total forest area diverted since 1980 with number of cases.	<b>204.0269 ha (102)</b>

iv. Total compensatory afforestation stipulated in the district/division since 1980 on :	
(a) forest land including penal compensatory afforestation,	401.1854 ha
(b) non-forest land.	Nil
v. Progress of compensatory afforestation as on (date) 31.03.2021 on	
(a) forest land	383.0814 ha
(b) non-forest land.	Nil
13. Specific recommendations of the DCF for acceptance or otherwise of the proposal with reasons.	The proposal is recommended for approval since the construction of this Project will enhance the capacity of the Hydro Power in the State and will benefit large community.

Place : Dharamshala

Dated : 24-02-2022

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



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**SPECIAL RECOMMENDATION**

The proposed Lower Iku - I Small Hydro Project in Tehsil Dharamshala, District Kangra, requires 0.5151 hectare of forest land. The diversion of 0.5151 hectare of forest land is hereby recommended for approval as it will harness the Power potential available in the state of Himachal Pradesh and provide employment opportunities to the local people.

Place : Dharamshala  
Dated : ~~30-06~~ 2020

Dr. Sanjeev Sharma (H.P.F.S.)  
Divisional Forest Officer  
Dharamshala Forest Division  
Dharamshala



**DIVERSION OF 0.5151 HA. OF FOREST LAND FOR CONSTRUCTION OF LOWER IKU - I**  
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DATE OF PROPOSAL :

CHECK LIST SERIAL NUMBER – 15

**SITE INSPECTION REPORT NOT BELOW THE RANK OF DCF**

(for the forest land to be diverted under FCA)

A proposal has been received by this office from M/s Mongra Hydro Contruuction Pvt. Ltd. having its office at C/o Uttam Chand, Ward No. 3, Post Office Yol Jharer, Tehsil Shahpur, District Kangra H.P. - 176208 for diversion under FCA-1980 of 0-68-06 ha. of forest land for non-forestry purpose.

The project envisages the use of forest land for the construction of Lower Iku – I Small Hydro Project (1 MW). The site inspection of the land involved in the proposal has been done by me on date 04/06/2020.

On inspection of the site, it is found that the land required by the user agency is UPF / Unclassed Forest measuring 0-51-51 ha.

The requirement of forest land as proposed by the user agency in Col. 2 of part-I is unavoidable and is barest minimum required for the project.

Whether any rare/endangered/unique species of flora and fauna found in the area.

If so, the details thereof.

: No

Whether any protected archaeological/heritage site/defence establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required.

: No

(a) The user agency has not violated the provisions of Forests (Conservation) Act, 1980 and no work has been started without proper sanction.

: (✓)

(b) It has been found that the user agency has violated the Forest (Conservation) Act, 1980 provisions.

A detailed report as per para 1.9 of Chapter I, Part C of handbook of Forest (Conservation) Act, 1980 is attached.

: (✓)

Specific recommendation for acceptance or otherwise of the proposal :

**The proposal is strongly recommended for the benefit of local people**

Place : Dharamshala

Dated : 04-06-2020

(Signature)

Dr. Sanjay Kumar (HPFS)

Divisional Forest Officer

Dharamshala Forest Division

Dharamshala



**DIVERSION OF 0.5151 HA. OF FOREST LAND FOR CONSTRUCTION OF LOWER IKU - I  
SMALL HYDRO PROJECT 1 MW IN DISTRICT KANGRA (H.P.)**

**FILE NO. : FP/HP/HYD/41533/2019**

**DATE OF PROPOSAL :**

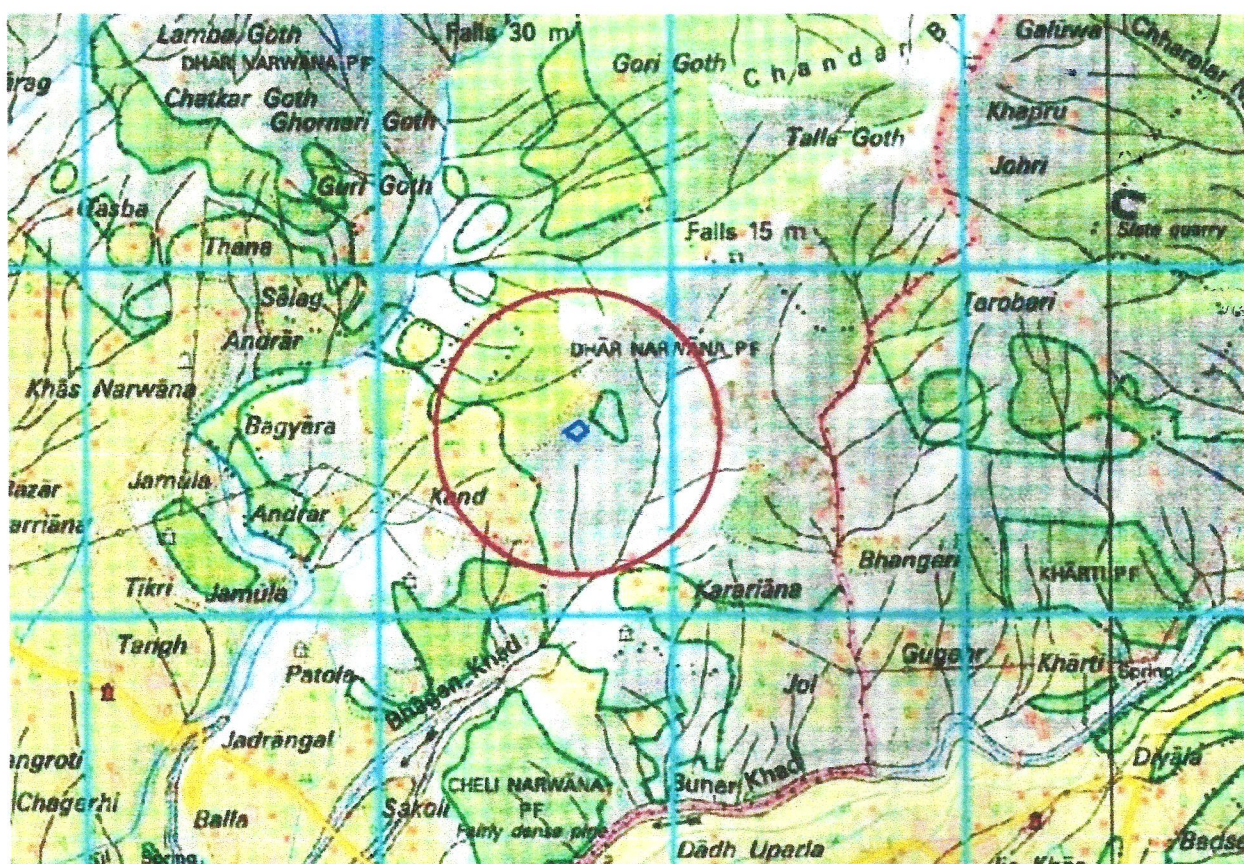
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**LOCATION MAP**

Location Map of degraded forest Area identified for Compensatory Afforestation in lieu of proposal for diversion of 0.5151 ha. of forest land for construction of Lower Iku – I SHP 1 MW in District Kangra.

Name of Forest – UP 145-K Dhar Narwana, Malan Forest Range, Dharamshala Forest Division Area 1.03 ha for Planting of 1030 number of plants.

**SOI Topo Sheet No. 52 D/8**

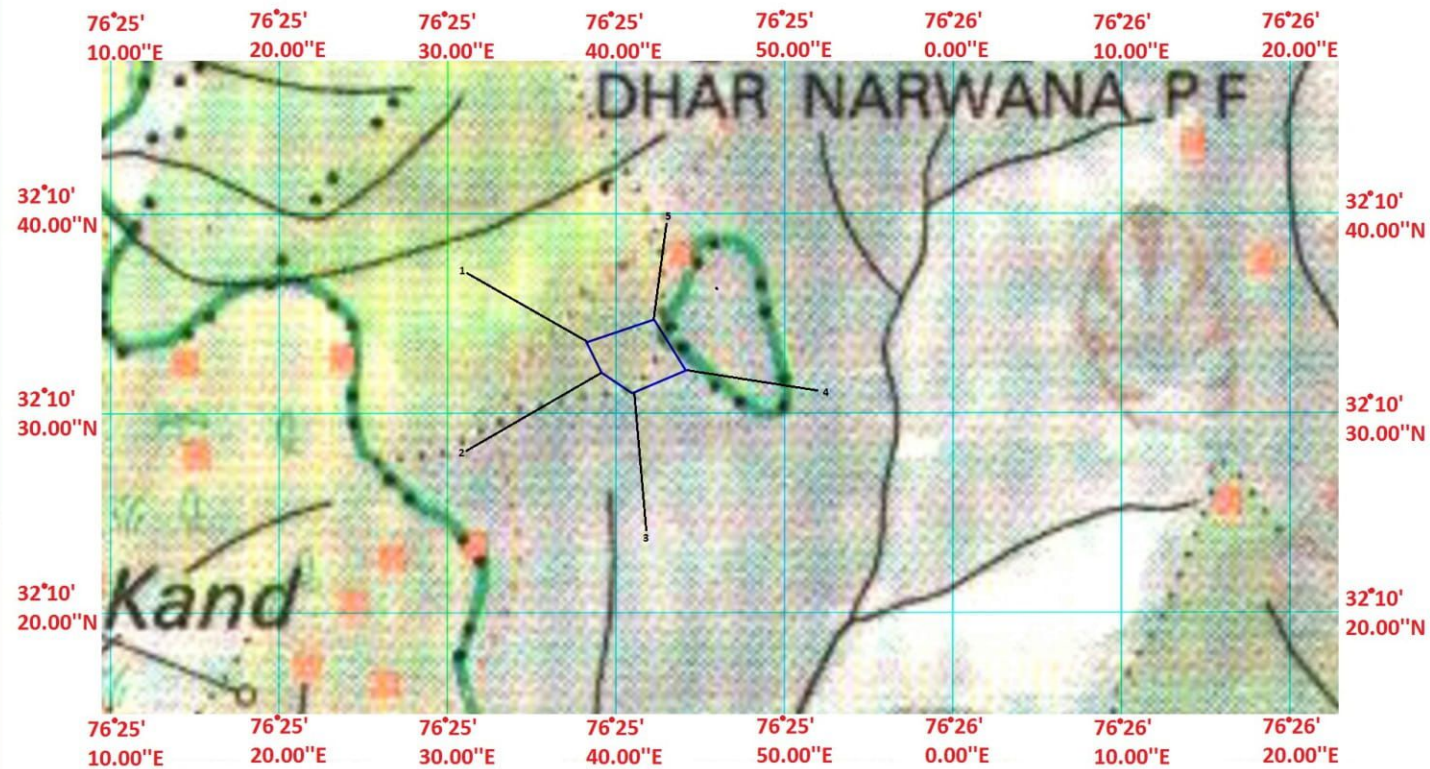


☐ Area to be taken for Compensatory Afforestation.

  
Divisional Forest Officer  
Dharamshala Forest Division  
Dharamshala



Sr.No.	Easting	Northing	Remarks
1	32°10' 33.55"N	76°25' 38.25"E	C.A LAND
2	32°10' 32"N	76°25' 39.12"E	
3	32°10' 30.95"N	76°25' 40.92"E	
4	32°10' 32.06"N	76°25' 44.12"E	
5	32°10' 34.65"N	76°25' 42.28"E	



Topographic map of the Dhar Narwana Protected Forest area in the Garo Hills, India. The map shows the forest boundary in green, surrounded by villages and agricultural land. A red circle highlights the forest area. The map is overlaid with a grid showing coordinates from 76°23' to 76°29' East and 32°10' to 32°11' North. Various geographical features like hills, rivers, and roads are labeled.



PROPOSED  
AREA

S.O.I. SHEET NO. - I43W/8 (52 D/8)

SCALE: 1: 50000

Prepared By : MAGNUS INFRATECH PVT. LTD. KANGRA H.P.

Divisional Forest Officer  
Forest Division  
Dharamshala



**DIVERSION OF 0.5151 HA. OF FOREST LAND FOR CONSTRUCTION OF LOWER IKU - I**  
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FILE NO. : **FP/HP/HYD/41533/2019**

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**"SCHEME FOR COMPENSATORY AFFORESTATION"**

Detail scheme for Compensatory Afforestation for Plantation of 1030 number of Plants in 1.03 ha area, to be carried out in lieu of 0.5151 ha. of forest area to be diverted for the construction of Lower Iku – I 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 – 1.03 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	1.03 Hac. (1030 Plants)	2,60,911 /-
1 <sup>st</sup> Year	1.03 Hac. (1030 Plants)	6,056 /-
2 <sup>nd</sup> Year	1.03 Hac. (1030 Plants)	3,348 /-
3 <sup>rd</sup> Year	1.03 Hac. (1030 Plants)	1,998 /-
4 <sup>th</sup> Year	1.03 Hac. (1030 Plants)	1,998 /-
5 <sup>th</sup> Year	1.03 Hac. (1030 Plants)	1,998 /-
6 <sup>th</sup> Year	1.03 Hac. (1030 Plants)	1,998 /-
7 <sup>th</sup> Year	1.03 Hac. (1030 Plants)	1,998 /-
8 <sup>th</sup> Year	1.03 Hac. (1030 Plants)	1,998 /-
9 <sup>th</sup> Year	1.03 Hac. (1030 Plants)	1,998 /-
10 <sup>th</sup> Year	1.03 Hac. (1030 Plants)	1,998 /-
<b>TOTAL (Rs.)</b>		<b>2,86,299 /-</b>
Contingency Charges 5 %		14,315 /-
<b>TOTAL (Rs.)</b>		<b>3,00,614 /-</b>
Departmental Charges 17.5 %		52,607 /-
<b>GRAND TOTAL (Rs.)</b>		<b>3,53,221 /-</b>


#### 5. Technical details

Technical details of Compensatory Afforestation Scheme are as follows:-

a.	General Details	Area for Compensatory Afforestation in UP 145K Dhar Narwana, Mallan Range in <u>Dharamshala Division</u> area 1.03 Hac.
b.	Spacement	2.5 X 2.5
c.	Species	Tall Plants
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 : 24-02-2022

  
Divisional Forest Officer  
Dharamshala Forest Division  
Dharamshala

**DIVERSION OF 0.5151 HA. OF FOREST LAND FOR CONSTRUCTION OF LOWER IKU - I SMALL HYDRO PROJECT, TEHSIL DHARAMSHALA, DISTRICT KANGRA, (H.P.)**

**FILE NO. FP/HP/HYD/41533/2019**

**DATE OF PROPOSAL 24/08/2019**

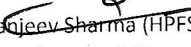
**Scheme for Compensatory Afforestation for 2020-21 in lieu of Diversion of 0.5151 ha of forest land for Construction of Lower Iku - I Small Hydro Project in District Kangra, H. P.**

**Village Narwana, Forest Division Dharamshala, Malan Forest Range, District Kangra, Compartment No. UP 145K Dhar Narwana, 1030 Plants in Area 1.03 Hac.**

Sr. No.	Particulars of work	Qty.	Unit	Rate per Unit at wage rate of Rs. 150/-	Amount @ Wage Rate of Rs.300/- for Non Tribal Areas
1	Survey & demarcation of plantation area	1.03	Ha.	101.00	208.06
2	Bush Cutting in Strips	1.03	Ha.	1192.80	2457.17
3	Collection of Debris and Burning	1.03	Ha.	681.80	1404.51
4	Preparation of Inspection Path 60 cm wide	258	m	11.00	5676.00
5	Digging of pits 60x60x60 cm	1030	No.	1745%	35947.00
6	Filling of pits 60x60x60 cm.	1030	No.	254%	5232.40
7	Carriage of plants in P/bags from nursery to work site over distance 1 km. (level)	1030	No.	1476%	30405.60
8	Planting of tall plants including ramming	1030	No.	654%	13478.58
9	Cost of RCC fence posts	52	No.	358.00	18616.00
10	Carriage of RCC Fence Post	52	No.	L/S	17200.00
11	Fixing of RCC Posts including strutting	52	No.	696.35%	724.20
12	Stretching and fixing of barbed wire with U-staple in four strands	603	Rmt.	4.80	5788.80
13	Interlacing of thorny bushes with barbed wire	201	Rmt.	4.00	1608.00
14	Cost of barbed wire	0.870	MT.	65100.00	56637.00
15	Cost of U -staple	0.001	MT.	64000.00	70.40
16	Mulching of plants	1030	No.	84.80%	1746.88
17	Irrigation as per need/photography etc.		L/s		5000.00
18	Nursery Cost of Tall Plant	1030	No.	57.00	58710.00
	Total				<b>260910.60</b>
Total Planting Cost					<b>260911.00</b>



1	1st Year Maintenance (1.03 HAC)	6056
2	2nd Year Maintenance (1.03 HAC)	3348
3	3rd Year Maintenance (1.03 HAC)	1998
4	4th Year Maintenance (1.03 HAC)	1998
5	5th Year Maintenance (1.03 HAC)	1998
6	6th Year Maintenance (1.03 HAC)	1998
7	7th Year Maintenance (1.03 HAC)	1998
8	8th Year Maintenance (1.03 HAC)	1998
9	9th Year Maintenance (1.03 HAC)	1998
10	10th Year Maintenance (1.03 HAC)	1998
<b>Total Maintenance Cost</b>		<b>25388</b>
<b>Total Cost</b>		<b>286299</b>
<b>Add: Contingency Charges 5 %</b>		<b>14315</b>
<b>Total</b>		<b>300614</b>
<b>Add: Departmental Charges 17.5 %</b>		<b>52607</b>
<b>Total Cost of CA for 1030 Tall Plants in 1.03 ha</b>		<b>353221</b>

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

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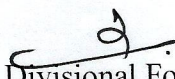
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**"LAND SUITABILITY CERTIFICATE BY DFO CONCERNED"**

This is to certify that 1.03 ha. land bearing Survey No. / Compartment No UP 145K Dhar Narwana, of Village Dhar Narwana, Malan Forest Range, Dharamshala Forest Division identified for Compensatory Afforestation for plantation of 1030 number of Plants in lieu of 0.5151 ha of Forest land being diverted for construction of Lower Iku – I Small Hydro Project, is suitable for plantation from management point of view and is free from all sorts of encumbrances and encroachment.

Place : Dharamshala

Dated : 24-02-2020

  
Divisional Forest Officer  
Dharamshala Forest Division  
Dharamshala



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**CERTIFICATE REGARDING DISTANCE OF PROPOSED AREA FROM PROTECTED OR  
THEIR ECO SENSITIVE ZONE IN RESPECT OF CONSTRUCTION OF LOWER IKU - I  
SMALL HYDRO PROJECT IN TEHSIL DHARAMSHALA, DISTRICT KANGRA (H.P.)**

This is to certify that the area proposed for construction of Lower Iku - I Small Hydro Project (1 MW) does not fall in protected area or eco sensitive zone. The distance from the Protected area and eco-sensitive zone of Pong Dam Lake Wild Life Sanctuary is about 28.5 kms and from Dhauladhar Wild Life Sanctuary is 43.5 kms.

Place : Dharamshala  
Dated : 30/06/2020

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