

**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 – 10

**CERTIFICATE FOR MINIMUM USE OF FOREST LAND**

This is to certify that the forest area involved in the construction of Lower Iku Small Hydro Project (1 MW) in District Kangra is unavoidable and barest minimum forest area i.e. 0-68-06 ha is proposed for diversion.

Place : Dharamshala

Dated :


For M/s Sanjeev Hydro Projects (P) Ltd.

Sanjeev Hydro Projects (P) Ltd.

Authorised Signatory

Authorised Signatory

Countersigned by :

  
Divisional Forest Officer  
Dharamshala Forest Division  
Dharamshala

**DIVERSION OF 0.6806 HA. OF FOREST LAND FOR CONSTRUCTION OF LOWER IKU SMALL  
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**ALTERNATE SITES CONSIDERED TO MINIMISE THE USE OF  
FOREST LAND FOR CONSTRUCTION OF  
LOWER IKU SMALL HYDRO ELECTRIC PROJECT (1 MW)**

**ALTERNATIVE-I**

The proposed project is situated on the left bank of the Iku Khad. The alternative involves construction of diversion structure at EL  $\pm$  1225 m on Iku Khad. The water conductor shall consist of surface De-Silting Tank, Water Conducting System, Forebay Tank and surface Power House on the left bank of Iku Khad. The gross head available for power generation shall be around 115 m. Surface powerhouse shall be located on the left bank of the Iku Khad.

Feature considered:

- Forest land involved to the tune of 0.6806 hectares.
- Entire alignment of the Project falls on the left bank of the Iku Khad.
- Gross head is fully utilized, resulting in more power generation.
- Less felling of trees i.e. 24 number of trees is involved in the proposal.

**ALTERNATIVE- II**

This alternative involves construction of diversion structure on Iku Khad at EL  $\pm$  1225 m and the Water Conductor System involving of about 630 m length passing through a loose rock on the right bank of the khad. Geologically, this alternative is not appropriate for the safety of the Project components.

Feature Considered:

- Forest land involved to the tune of 0-76-00 hectares.
- It is difficult for construction of water conductor system on the right bank as it passes through loose rock.
- Gross head available also decreases, resulting in less power generation.
- The Project cost increases in this alternative.
- Felling of 62 number of trees is involved in the proposal.

**ALTERNATIVE- III**

This is mainly right bank alternative and involves construction of diversion structure at EL  $\pm$  1225 m on the Iku Khad. Water of Iku Khad shall be diverted through 1110 m long Pressurised Power Pipe from De-Silting cum Forebay Tank. The Power House shall be constructed on the right bank of Iku Khad near to the Iku Khad and thus it would not be safe. The net head available shall also be less. In this alternative the Power Channel shall be pressurized and the area in question is vulnerable to land slides.

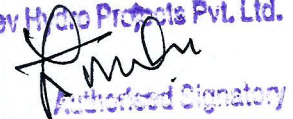
Features Considered:

- Entire alignment falls on right bank of Iku Khad.
- Forest land involved to the tune of 0-72-25 hectares.
- The Power House and Power Channel shall not be safe
- More felling of trees i.e. 105 is involved in the proposal.

Keeping in view all the above three alternative, the **alternative- I**, which is more suitable and environmental friendly, has been finally adopted.

For M/s Sanjeev Hydro Projects (P) Ltd.

Sanjeev Hydro Projects Pvt. Ltd.



Authorised Signatory

Place : Dharamshala

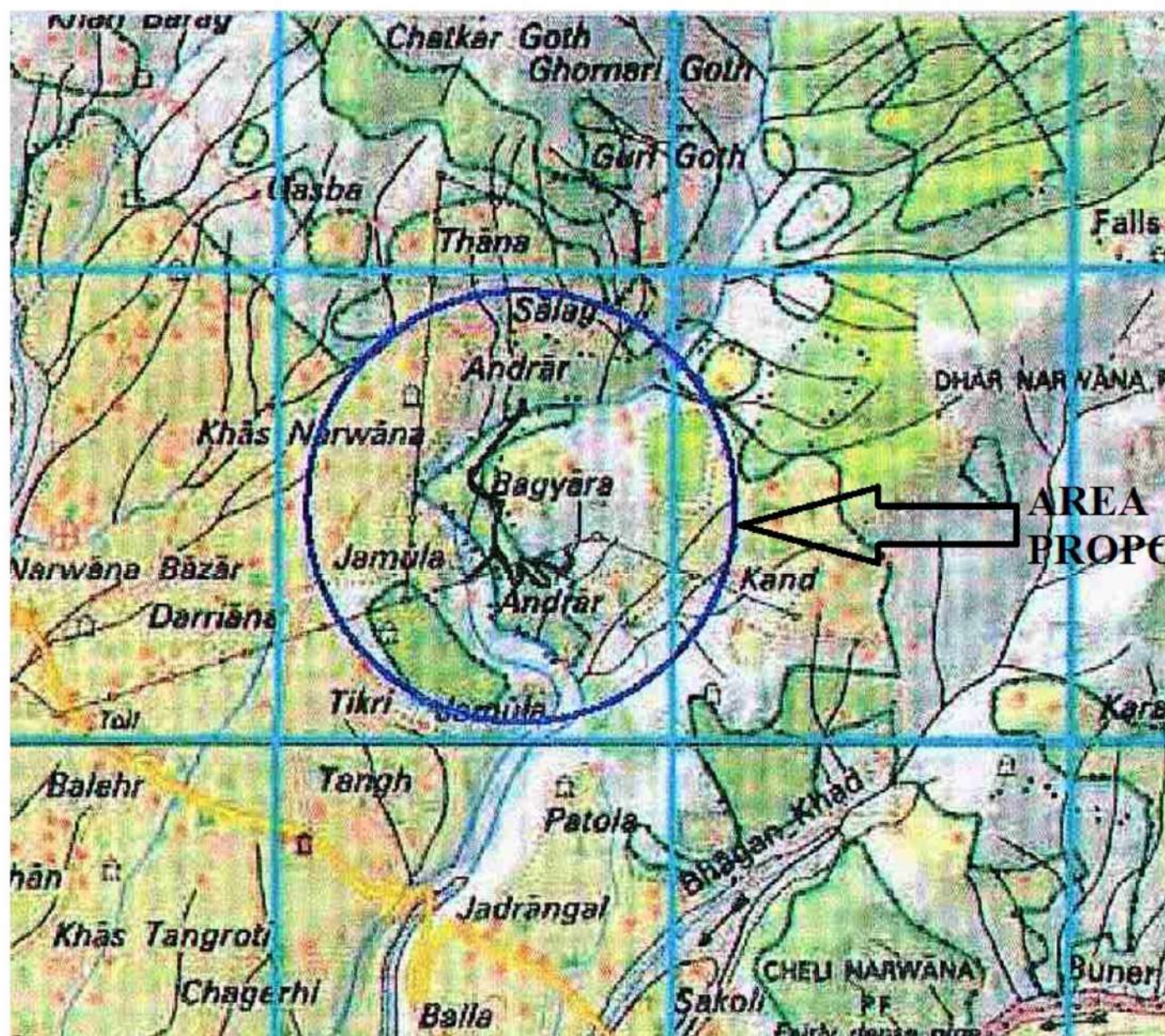
Dated :



**LOWER IKU SMALL HYDRO PROJECT (1 MW)  
TEHSIL DHARAMSHALA, DISTRICT KANGRA (H.P.)**

**ALTERNATIVE - I**

**SOI TOPO : 52 D / 8**



**AREA  
PROPOSED**

**FEATURES CONSIDERED**

<b>AREA INVOLVED</b>	<b>0.6806 ha</b>
<b>TREES INVOLVED</b>	<b>24 No.</b>

M/s Sanjeev Hydro Projects (P) Ltd

Director

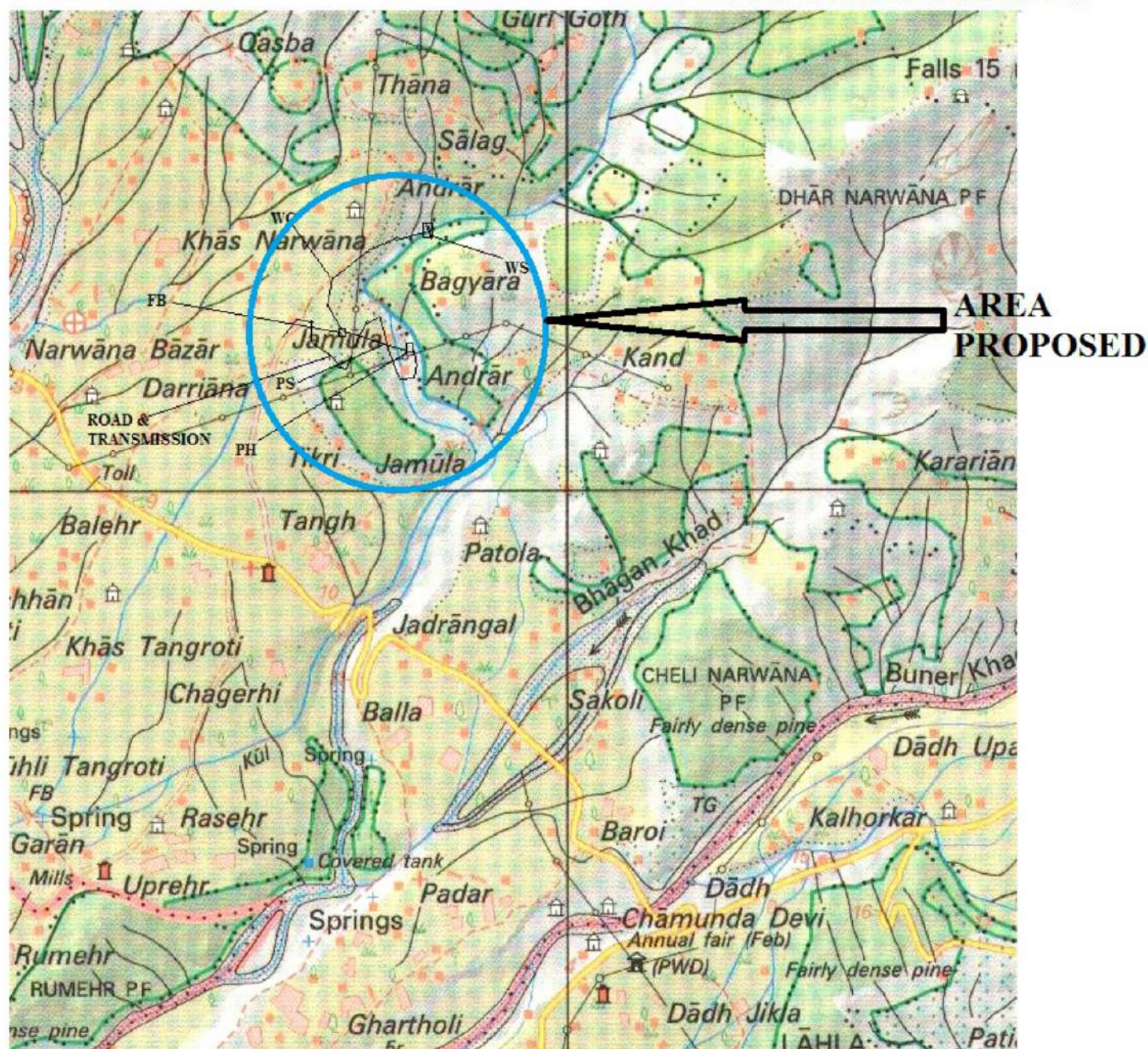
*[Signature]*  
Divisional Forest Officer,  
Dharamshala Forest Division,  
DHARAMSHALA.



**LOWER IKU SMALL HYDRO PROJECT (1 MW)  
TEHSIL DHARAMSHALA, DISTRICT KANGRA (H.P.)**

**ALTERNATIVE - II**

**SOI TOPO : 52 D / 8**



**FEATURES CONSIDERED**

<b>AREA INVOLVED</b>	<b>0.76 ha</b>
<b>TREES INVOLVED</b>	<b>62 No.</b>

M/s Sanjeev Hydro Projects (P) Ltd

Director

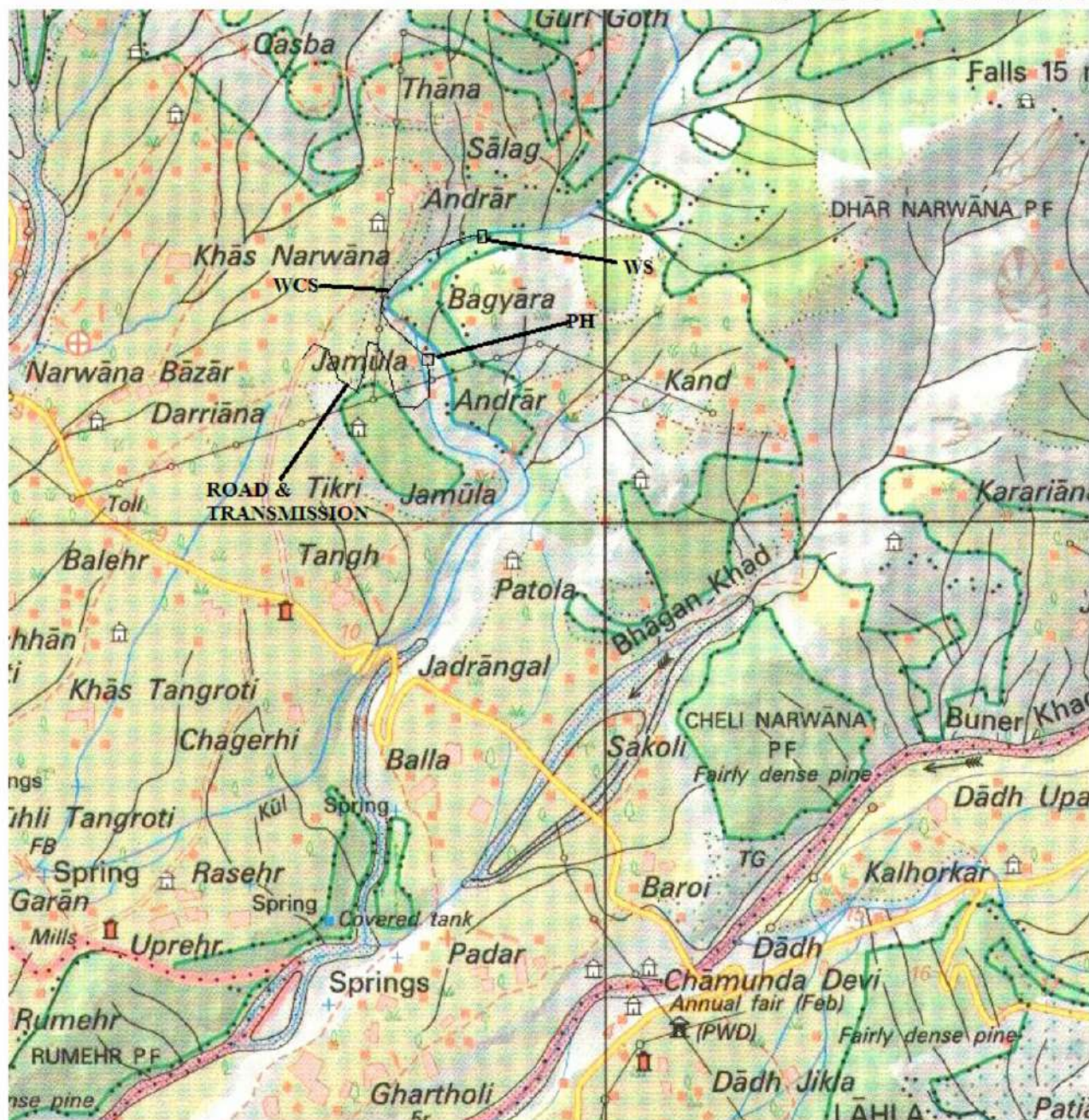
Divisional Forest Officer,  
Dharamshala Forest Division,  
DHARAMSHALA.



**LOWER IKU SMALL HYDRO PROJECT (1 MW)  
TEHSIL DHARAMSHALA, DISTRICT KANGRA (H.P.)**

**ALTERNATIVE - III**

**SOI TOPO : 52 D / 8**



**FEATURES CONSIDERED**

<b>AREA INVOLVED</b>	<b>0.7225 ha</b>
<b>TREES INVOLVED</b>	<b>105 No.</b>

M/s Sanjeev Hydro Projects (P) Ltd

Director

*[Signature]*  
Divisional Forest Officer,  
Dharamshala Forest Division,  
DHARAMSHALA.



**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 – 11

**UNDERTAKING FOR PAYMENT OF COST OF  
COMPENSATORY AFFORESTATION**

It is to certify that I, Sanjeev Kumar, Authorised Signatory for M/s Sanjeev Hydro Projects (P) Ltd. having its office at VPO Sauhora, Tehsil & District Kangra – 176001, have applied for diversion of 0-68-06 ha. of forest area for the purpose of execution of Lower Iku Small Hydro Power Project 1 MW in District Kangra.

I, hereby undertake to pay the entire amount for compensatory afforestation in lieu of the forest area diverted for execution of Lower Iku Small Hydro Power Project 1 MW, as per prevailing wage rates at the time of plantation.

Place : Dharamshala

Dated :


For M/s Sanjeev Hydro Projects (P) Ltd.

Sanjeev Hydro Projects (P) Ltd.

Authorised Signatory

Authorised Signatory

Countersigned by :

  
Divisional Forest Officer  
Dharamshala Forest Division  
Dharamshala

**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 – 12

**UNDERTAKING FOR THE PAYMENT OF NET PRESENT VALUE  
OF FOREST AREA**

It is to certify that I, Sanjeev Kumar, Authorised Signatory for M/s Sanjeev Hydro Projects (P) Ltd. having its office at VPO Sauhora, Tehsil & District Kangra – 176001, have applied for diversion of 0-68-06 ha. of forest area for the purpose of execution of Lower Iku Small Hydro Power Project 1 MW in District Kangra.

**I hereby undertake to pay the revised Net Present Value (NPV) of the above forest land as per prevailing rates.**

For M/s Sanjeev Hydro Projects (P) Ltd.

Sanjeev Hydro Projects (P) Ltd.

Authorised Signatory

Authorised Signatory

Place : Dharamshala

Dated :

Countersigned by :



Divisional Forest Officer  
Dharamshala Forest Division  
Dharamshala



**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 – 12

**UNDERTAKING FOR THE PAYMENT OF ADDITIONAL  
NET PRESENT VALUE OF FOREST AREA**

It is to certify that I, Sanjeev Kumar, Authorised Signatory for M/s Sanjeev Hydro Projects (P) Ltd. having its office at VPO Sauhora, Tehsil & District Kangra – 176001, have applied for diversion of 0-68-06 ha. of forest area for the purpose of execution of Lower Iku Small Hydro Power Project 1 MW in District Kangra.

I hereby undertake to pay the additional amount of NPV, if so determined as per decision of the Hon'ble Supreme Court.

Place : Dharamshala  
Dated :

For M/s Sanjeev Hydro Projects (P) Ltd.

Sanjeev Hydro Projects (P) Ltd.

Authorised Signatory

Authorised Signatory

Countersigned by :

  
Divisional Forest Officer  
Dharamshala Forest Division  
Dharamshala



**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 SR. NO. 13

**UNDERTAKING TO SUBMIT FRA CERTIFICATE**

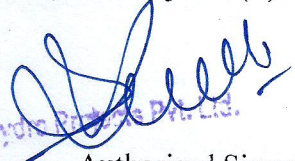
It is to certify that I, Sanjeev Kumar, Authorised Signatory for M/s Sanjeev Hydro Projects Pvt. Ltd. having its office at VPO Sauhora, Tehsil & District Kangra – 176001, have applied for diversion of 0-68-06 ha. of forest area for the purpose of execution of Lower Iku Small Hydro Power Project 1 MW in District Kangra.

I, hereby undertake to submit the FRA Certificate complete in all respect before the final approval of the Forest Clearance case of the said Project.

For M/s Sanjeev Hydro Projects (P) Ltd.

Place : Kangra

Dated : 17-02-2022

  
Sanjeev Hydro Projects Pvt. Ltd.  
Authorised Signatory  
Authorised Signatory

Countersigned by :-

  
Divisional Forest Officer,  
Dharamshala Forest Division  
Dharamshala



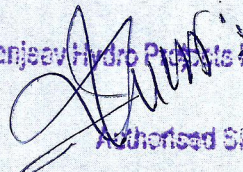
## JOINT INSPECTION REPORT

We the undersigned have jointly inspected the areas Proposed for Diversion of M/s Vishavkarma Hydel Power, VPO Gaggal, Tehsil and District Kangra, Himachal Pradesh, for setting up 1 MW Lower Iku Small Hydro Project on Iku Khad, a tributary of Banganga then Beas River downstream of Village Kand, Gram Panchayat Kand Kardiya, Tehsil Dharamshala, Distt. Kangra, Himachal Pradesh on 27.09.2017.

The project requires a total area of 00-68-06 hectare, for different components viz., Intakes, Desilting Tank, Channel, Forebay, Water Conductor System, Power House, Switchyard, Tail Race Channel and Muck Dumping Sites, approach road to Power House and Transmission Line from Power House to near HPSEBL 33 KV Line.

### The details of Forest Land area as under :

Sr. No.	Component / Description	Mohal	Khasra No.	Area		Area in Forest Land (sqm)	Total area to be Required (in hectare)	Classification of Forest Land
				Length	Breadth			
1	Intake / Trench Weir	Bagiarra	820 / 1	20	8	160	0-01-60	Gair Mumkin Khad
2	Conveyancy Channel	Bagiarra	819 / 1	20	2	40	0-00-40	Jungle Mehfuza Gair Mehduda
3	De-Silting Tank	Bagiarra	819 / 2	20	8	160	0-01-60	Jungle Mehfuza Gair Mehduda
4	Water Conductor System / Pipe Line	Bagiarra	819 / 3	245	2	490	0-04-90	Jungle Mehfuza Gair Mehduda
5	Water Conductor System / Pipe Line	Bagiarra	876 / 1	241	2	482	0-04-82	Charagah Darakhtan
6	Water Conductor System / Pipe Line	Bagiarra	826 / 3	143	2	286	0-02-86	Charagah Bila Darakhtan
7	Forebay Tank	Bagiarra	826 / 2	10	10	100	0-01-00	Charagah Bila Darakhtan
8	Spillway	Bagiarra	826 / 5	38	2	76	0-00-76	Charagah Bila Darakhtan
9	Penstock	Bagiarra	826 / 1	117	2	234	0-02-34	Charagah Bila Darakhtan
10	Penstock	Bagiarra	858 / 1	3	2	6	0-00-06	Gair Mumkin Rasta
11	Penstock	Bagiarra	1063 / 4	26	2	52	0-00-52	Jungle Mehfuza Gair Mehduda
12	Power House	Bagiarra	1063 / 2	20	15	300	0-03-00	Jungle Mehfuza Gair Mehduda
13	Tail Race	Bagiarra	1063 / 3	8	2	16	0-00-16	Jungle Mehfuza Gair Mehduda
14	Road	Bagiarra	1063 / 1	653.25	4	2613	0-26-13	Jungle Mehfuza Gair Mehduda


Sanjeev Hydro Projects Pvt. Ltd.  
  
 Authorised Signatory




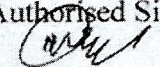
15	Transmission Line	Bagiarra	1063 / 6	70	15	1050	0-10-50	Jungle Mehfuza Gair Mehduda
16	Dumping Site - I	Bagiarra	819 / 4	10	10	100	0-01-00	Jungle Mehfuza Gair Mehduda
17	Dumping Site - II	Bagiarra	876 / 2	10	10	100	0-01-00	Charagah Darakhtan
18	Dumping Site - III	Bagiarra	826 / 4	10	11	110	0-01-10	Charagah Bila Darakhtan
19	Dumping Site - IV	Bagiarra	1063 / 5	11	11	121	0-01-21	Jungle Mehfuza Gair Mehduda
20	Dumping Site - V	Bagiarra	1063 / 9	10	10	100	0-01-00	Jungle Mehfuza Gair Mehduda
21	Dumping Site - VI	Bagiarra	1063 / 8	10	10	100	0-01-00	Jungle Mehfuza Gair Mehduda
22	Dumping Site - VII	Bagiarra	1063 / 7	11	10	110	0-01-10	Jungle Mehfuza Gair Mehduda
Total Land Required						6806	0-68-06	ha

The width of the transmission line proposed to be acquired is 15 m and the height is 11 meter.

The Joint Inspection team has examined all the alternatives with a view to avoid / minimize the use of forest land and we have come to the conclusion that land of the above Khasra Nos. of forest land is the minimum required land for the construction of Lower Iku Small Hydro Project and so is absolutely essential.

  
D.F.O  
Dharamshala

  
S.D.O (Civil)  
Dharamshala

Authorised Signatory  
  
M.s Vishavkarma Hydel Power

Sanjeev Hydro Projects Pvt. Ltd.

  
Authorised Signatory

**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 – 19

**CERTIFICATE FOR NON VIOLATION OF FCA 1860**

It is to certify that I, Sanjeev Kumar, Authorised Signatory for M/s Sanjeev Hydro Projects (P) Ltd. having its office at VPO Sauhora, Tehsil & District Kangra – 176001, have applied for diversion of 0-68-06 ha. of forest area for the purpose of execution of Lower Iku Small Hydro Power Project 1 MW in District Kangra.

I, hereby ensure that there is no violation of FCA, 1860 and no construction activity shall be started at the proposed site till the area is not diverted in the name of M/s Sanjeev Hydro Projects Private Limited.

For M/s Sanjeev Hydro Projects (P) Ltd.

Sanjeev Hydro Projects (P) Ltd.  
Authorised Signatory

Place : Dharamshala  
Dated :

Authorised Signatory



CERTIFICATE OF NON AVAILABILITY OF NON  
FOREST LAND FOR COMPENSATORY AFFORESTATION  
IN RESPECT OF VISHAVKARMA HYDRO POWER FOR  
CONSTRUCTION OF LOWER IQU SMALL HYDRO  
PROJECT (1MW) IN TEHSIL DHARAMSHALA OF DISTT  
KANGRA WITHIN JURISDICTION OF DHARAMSHALA  
FOREST DIVISION.

As per report of Sub Divisional Officer (Civil)  
Dharamshala vide letter no. 200/SDK dated 29-05-2018, it is  
certified that there is no non forest land available in Mohal  
Bagiarra (Kand Kardiyana) Tehsil Dharamshala District  
Kangra H.P. for raising compensatory afforestation.

As such the compensatory afforestation shall be  
done on above land in non forest land on double the area  
required for the construction of Lower Small Hydro Project  
(1MW) in Tehsil Dharamshala of Distt Kangra H.P.

No. 2304...../DRA

Dated : 08/06/2018

  
Collector,  
Kangra at Dharmshala