

**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: - 3**

**DETAIL NOTE ON THE PROJECT**

The forest land is required for the construction of Lower Iku Small Hydro Electric Project (1 MW) near village Bagiara in Tehsil Dharamshala, District Kangra (H.P). The scheme is proposed on the Iku Khad, a tributary of Baner Khad which is further a tributary of Beas River. Flow of the Iku Khad would be diverted through a weir to be constructed at EL 1225 m and conveyed through a 20 m long Conveyance Channel upto the De-silting Tank. Thereafter the water would be taken through 629 m long Water conducting system upto the proposed Forebay Tank from where the water shall be dropped off through 146 m long Penstock to a surface Power House at EL 1110 m on the left Bank of Iku Khad. Water from the Power House shall be released into the Iku Khad on its left bank. Power generated from the Project shall be interfaced to the existing 33 kV HPSEBL Transmission Line nearby by constructing 70 m long 33 kV Transmission Line in village Bagiara.

The access road of 653.25 m length shall be constructed upto the proposed Power House. The right of way for Transmission Line has been taken as 15 m. The construction of the above project involves 0-68-06 ha. of forest land and there is no Non Forest / Private Land available in the concerned area so all the civil components of the Project have been proposed in the forest land.

The Project was allotted in the name of M/s Vishavkarma Hydrel Power (Partnership), VPO Gaggal, Tehsil & District Kangra (H.P.) which was transferred in the name of M/s Sanjeev Hydro Projects Private Limited, Village & Post Office Sauhora, Tehsil & District Kangra H.P. -176001.

The Project Comprises of the following civil works.

- Intake / Weir Site
- Conveyance Channel
- De- silting Tank
- Water Conducting System
- Forebay Tank
- Spillway
- Muck Dumping Sites
- Penstock
- Powerhouse
- Tail Race
- Road
- Transmission Line

With the construction of the above project, economy of the local village Bagiara, Andrar, Patolha, Salag and surrounding villages shall get a boost and better means of earning livelihood.

Presently, non- renewable sources like Kerosene, Diesel and Forest wood are being used as domestic fuel. Availability of reliable and qualitative electricity shall have positive impact in the living standard of the people of the area.

The people of this area are generally poor and they would get the chance to be part of the project by getting employment during construction period and some persons shall get permanent employment for

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operation of the Project. The estimated cost of the project is Rs. 834.28 lakh and approx. 18200 man days of employment would be generated directly during construction of the project.

The adverse impact of the construction on the environment shall be taken care of. Cut & fill method shall be used for disposal of muck/debris and the rest would be used in filling the embankments of different structures, retaining walls and low lying areas. The dumping sites have been depicted in the enclosed map. No debris would be allowed to roll down the slopes towards the Khad. Trees along the Penstock Slopes, dumping areas and approach roads will be planted. Thus every care shall be taken to minimize the ill effect on the environment.

#### LOCATION OF THE PROJECT :

The Lower Iku Small Hydro Electric Project is being conceived as a run of the river development on Iku Khad, a tributary of Baner Khad which is further a tributary of Beas River. The Project is located near village Bagiarra, Tehsil Dharamshala, Distt. Kangra of Himachal Pradesh. Nearest broad gauge railway station is Pathankot, which is 90 kms from the powerhouse site.

#### JUSTIFICATION FOR LOCATION THE PROJECT IN FOREST AREA :

Iku Khad is a tributary of Baner Khad which is further a tributary of Beas river and joins it downstream of Shree Chamunda Temple at EL 907 m in District Kangra. It joins Baner Khad on its right bank. The gradient of Khad is very steep in the upper reaches of the khad. Average slope varies from 1:6 to 1:10. The Hydro Power Sites are site specific and the area adjoining to the Iku Khad is Forest Land. So the forest land cannot be avoided.

No other viable alternative is available for the project so it has to be as such located in the forest land. Keeping in view of the technical requirements of the Project, alternative involving minimum forest land and trees have been adopted.

#### FINANCIAL AND SOCIAL BENEFITS:

##### Financial :

The project will generate about 6 million units which shall be sold to the HPSEB at Tariff fixed by the HPSERC.

##### Social :

- ❖ Provide reliable power supply to the rural area to stimulate economic activity social welfare among the local population.
- ❖ Save forests, which are being used for meeting rural energy needs
- ❖ Increase Productivity in agriculture, industry and commerce.
- ❖ Create employment during construction and maintenance and thus check migration of the villagers to cities.
- ❖ To reduce the use of fuel wood during winter for heating purposes, thus reducing deforestation.

##### Total Population Benefited:

The population of approx. 250 persons living in Bagiarra, Andrar, Salag and other villages surrounding the project area will be benefited.

##### Employment Generated:

Yearly employment during construction by categories ( Approximately)

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Year	Professional & Technical	Clerical Services	Skilled workmen	Unskilled workmen
1 <sup>st</sup> Year	4	3	10	75 to 100
2 <sup>nd</sup> Year	6	3	15	100 to 150

Personal to be retained after completion of project would be approximately 10 %, who shall get permanent job till the life of the Project or retirement thereof, whichever is earlier.

Approx. 18200 man-days of employment would be generated directly during the construction of this project.

Project objectives:

- Exploit the power potential as per the policy of the Government.
- Provide employment opportunities to the locals
- Development of the area by adding to the standard of living in village communities.
- Mitigate the power crisis in northern region.

The project would have lot of long term direct and indirect advantages. Hence the project is requested to be considered.

Place : Dharamshala

Dated :

For M/s Sanjeev Hydro Projects (P) Ltd

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