DIVERSION OF 0.6030HA.OF FORESTLAND FOR CONSTRUCTION OF BANUALA BAROOND-II SMALL HYDRO PROJECT 0.80 MW IN TEHSIL CHURAH DISTRICT CHAMBA (H.P)
FILE NO .. :**FP/HP/HYD/146882/2021**
DATE OF PROOSAL :

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# DETAIL NOTE ON THE PROJECT

The forest land is required for the construction of the Banuala Baroond – II Small Hydro Electric Project (0.80 MW) near village Bhararu , Tehsil Churah , Distt. Chamba ( H.P). The scheme is proposed on the Churkhu Nala. Flow of the Churkhu Nala would be diverted through a weir to be constructed at EL 1700 m and conveyed through a 10 m long Conveyance channel upto the proposed D Tank Cum Forebay and then through 355 m long Penstock leading to a surface power house on the right Bank of Churkhu Nala. Power generated from the Project shall be taken upto a Substation of HPSEBL and LILO with the nearest 11 kv Nakrod feeder of HPSEBL .About 364 m long road with Transmission line has been proposed and most of the length of Transmission line will be along the road . The construction of the above project involves 0.6030 ha. of forest land and there is no private land involved in the Project.

The Project Comprises of the following civil works.

- Diversion Weir
- Conveyance Channel
- D Tank cum Forebay
- Penstock
- Power house & Switch Yard
- Tail race
- Muck Dumping Sites
- Road
- Transmission Line

With the construction of the above project, economy of the local village Praba and surrounding villages shall get a boost.

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 operation of the Project. The estimated cost of the project is Rs. 7.89 crore and approx. 12000 man days of employment would be generated directly during construction of the project and 8 Nos. of persons will be employed permanently after commissioning of 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 Nala. 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 Banuala Baroond – II Small Hydro Electric Project is being conceived as a run of the river development on Churkhu Nala, a tributary of Chanju / Ravi River. The Project is located near village Bhararu, in Distt. Chamba of Himachal Pradesh. The powerhouse is 75 Kms from Chamba Town, Nearest broad gauge railway station is Pathankot, which is 124 kms from the powerhouse site.

JUSTIFICATION FOR LOCATION THE PROJECT IN FOREST AREA

Churkhu Nala is a tributary of Chanju Nala /Ravi river and joins it near Chatoli, located on the Nakrod-Chanju road in District Chamba. It originates from Panjal from 4300 m altitude. The total catchment up to proposed diversion site is 20.90 Sq. km. The gradient of Nala is very steep in the upper reaches of the Nala. Average slope varies from 1:6 to 1:10.

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 4.03 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. 461 persons living in the Prabha village will be directly benefited with the construction of this project however the peoples from other villages surrounding the project area will also be directly/indirectly benefited with the construction of project.

Employment Generated:

Approx. 12000 man- days of employment would be generated directly during the construction of this project.

Personal to be retained after completion of project would be 8 nos. for the operation of the project who shall get permanent job till the life of the Project or retirement thereof, whichever is earlier.

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 : Chamba
Dated : 3/10/2021

For New Hydel Power

New Hydel Power
Authorised Signatory

Authorised Signatory