Full Title of Project: Diversion of 0.8223 Ha. of Forest Land for Construction of Jiwa-II SHEP 1.75 MW, Sub-Tehsil Sainj, GHNP Shamshi Forest Division, Distt. Kullu (H.P.)

File No. :

Proposal No. : FP/HP/HYD/147118/2021

Date of Proposal :

CHECK LIST NO. 4

Detail Note on the project

INTRODUCTION OF THE PROMOTERS

M/s Behl Motors is a registered company. The firm is well established. The directors of the firm are having vast experience I of civil, electrical and mechanical constructions and involved with constructions and investigation of small Hydro Projects. In addition to above, the directors are running various business activities viz spare part, Tata motors dealers and also running educational Institutions. The firm has the required technical knowhow for the execution of civil, electrical and mechanical works related with the hydro-projects

The firm is financially and technically sound and equipped with the infrastructure required to build and operate the small hydro projects.

LOCATION OF THE PROJECT

The Jiwa-II Hydro Electric Project is run-of-the river project. This project is located opposite village Kathiari near Sainj town, about 50 km from Mandi in Himachal Pradesh. The Jiwa-II Hydro Electric project is purposed to be built on the left bank of Jiwa Nallah a tributary of river Sainj. This Small Hydro Project is estimated to generate 1.75 MW of electric power by using the water of Jiwa nallah.

GEOLOGY AT COMPONENTS THE SITE OF VARIOUS PROJECT

Diversion Weir and Intake Site

Rocks are exposed on the left bank of the diversion weir site. The hill slopes on the left bank above the river bed are 60° and 70° The Nallah is strewn with boulders of Quartzite, Phyllites, Lime stone of various dimensions which got dislodged to roll down to the Nallah bed. The left bank comprises of slope: wash material. The nallah flows in two channels separated by shoal deposits made of river borne materials The slopes on both the banks are stable and covered with vegetation. Thus the diversion weir location is safe from geological considerations.

Feeder Channel, Desilting Tank and Power duct

An open channel 100m long connecting Intake structure and Desilting Tank followed by the power duct of 1050mm dia and 1300m length on the left bank passes through hard rock having favourable bedding planes. The Desilting tank is proposed to be constructed at a location 100m downstream of the intake structure The area has around 1:0m to 1.5 m over burden materials and shall be required to be removed to site the structure on rocky strata to safely withstand loading due to Desilting tank.

The power duct from Desilting tank to forbay tank is around 1000m and traverses through stretches comprising of overburden material as well as rocky strata. The slopes are generally stable. however, at some stretches adequate slope to the cutting face of the hill shall be required to be given to avoid any slope failure.

FOREBAY

The forebay is proposed to be located on strata comprising of soil mixed with boulders and hence shall pose no geological problems.

PENSTOCK

The steel Penstock is aligned on the spur which is partly rocky and partly overlain with boulders Good foundations are available for locating the anchor Blocks and saddles of surface Penstock.

POWER HOUSE:

The Power house is proposed to be located on a terrace on the left bank of Jiwa nallah opposite village Kathiari. The terrace here comprises slope wash material mixed with medium size boulders. The power house is proposed to be founded inside the rock after removing the overburden. The power House is located well above the highest Flood Level, hence safe.

Date: .....
Place: GHNP Shamshi

Authorized Signatory
For BEHL MOTORS
Deepak Dhewan
Auth. Signatory
Behal Motors
Jiwa-II SHEP (1.75 MW)

Countersigned By:-

Divisional Forest Officer
Great Himalayan National Park
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