

DIVERSION OF 0.5684 HA. OF FOREST LAND FOR CONSTRUCTION OF CHANED SMALL HYDRO PROJECT (1 MW) IN DISTRICT CHAMBA (H.P.)

FILE NO. : FP/HP/HYD/138838/2021

DATE OF PROPOSAL :

ALTERNATE SITES CONSIDERED TO MINIMISE THE USE OF FOREST LAND FOR CONSTRUCTION OF CHANED SMALL HYDRO ELECTRIC PROJECT (1 MW)

ALTERNATIVE-I

The proposed project is situated on the Kolhari Nala in Mohal Bhanota. Water from Kolhari shall be envisaged and brought through Pipe Line upto the Forebay Tank and then through Penstock upto the surface Power House on the left bank of the Kolhari Nala. The components include Weir Site, Conveyance Channel, De-silting Tank, Pipe Line, Spillway, Forebay Tank, Penstock, Power House, Tail Race, Road and Transmission Line. Three number of Dumping Sites have been proposed for disposal of Muck. The water shall be released onto the left bank of Kolhari Nala to generate 1 MW of energy generation.

Feature considered:

- Forest land involved to the tune of 0.5684 hectares.
- Entire alignment of the Project falls on the left bank of the Kolhari Nala.
- Gross head is fully utilized, resulting in more power generation.
- Less felling of trees i.e. 39 number of trees are involved in the proposal.

ALTERNATIVE- II

The proposed project is situated on the left bank of Kolhari Nala in Mohal Bhanota. The proposal involves construction of Head Race Tunnel of 1560 m, The Forest Land involved in this alternative is 0.82 ha. The Project involves construction of Underground Forebay tank and from where the water shall be dropped onto a Surface Power House on the left bank of Kolhari Nala. The trata on the left bank is loose and not viable for the construction of Head Race Tunnel. The Gross Head will also be less thus resulting in less Power Generation.

Feature considered:

- Forest land involved to the tune of 0.82 hectares.
- Entire alignment of the Project falls on the left bank of the Kolhari Nala.
- Gross head will decrease, resulting in less power generation.
- Felling of 45 number of trees is involved in the proposal.

ALTERNATIVE- III

This is mainly right bank alternative and involves construction of diversion structure on Kolhari Nala from where water shall be taken through open channel upto the storage tank on the right bank. This alternative involves felling of large number of trees. The area is vulnerable to land slides and will increase the cost of the Project making it unviable.

Features Considered:

- Entire alignment falls on right bank of Kolhari Nala.
- The length of Water Conductor shall be more thus increase the risk of Land Slides.
- The Net Head available for the Project shall be less, thus less Power Generation.
- Forest land involved to the tune of 0.75 hectares.
- More felling of trees i.e. 72 number of trees 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 OHP Project Private Limited

For ~~OHP Project Pvt. Ltd.~~

[Handwritten Signature]

Auth. Signatory

Authorised Signatory

Place : Chamba

Dated :

Countersigned by :

[Handwritten Signature]
Divisional Forest Officer
Dalhousie Forest Division
Dalhousie