

DIVERSION OF 3.7463HA.OF FORESTLAND FOR CONSTRUCTION OF GHATOR TOP SMALL HYDRO
PROJECT 4.98 MW IN TEHSIL BHARMOUR DISTRICT CHAMBA (H.P)
FILE NO .. :FP/HP/HYD/156608/2022
DATE OF PROOSAL : 9/01/22

CHECK LIST -11

CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that the forest area involved in the proposal is unavoidable and barest minimum forest area i.e. 3.7463 hectare is proposed for diversion for the construction of GHATOR TOP SHEP (4.98MW) at Gram panchayat Jagat in Distt. Chamba HP. Three alternatives have been considered for this project and adopted alternative I uses minimum forest land and details are as under;

Various Alternatives for the project

I) Alternative I

This is mainly a right bank alternative. The alternative involves construction of diversion structure at EL. 2735m on Ghator nalla. The water conductor shall consist of feeder channel 18m, 741m HRT length & 1398 m long surface Penstock pipe on the right bank of the Ghator nalla. Also the penstock alignment is on surface as there is steep slope & rocky terrain except some bends to the Penstock. The gross head available for the power generation shall be around 656.50. This alternative involves the forest land of 3.7463 hectares and 57 numbers of trees cutting. The approved estimated cost of the alternative is 4051 lacs.

II) Alternative II

This alternative involves construction of diversion structure on Chhurkhu nala at EL.2735m on its right bank. The water conductor system of 50 m length from weir diversion upto forebay. The Penstock leads from the forebay to the Power house through loose rock and occasionally slidy portion and Also the some portion of the penstock passing through strethed area which leads to more laying length so keeping in view this there may be the loss of head which leads to the slightly less annual generation. In this Alternative 4.52 hectares of land is utilising and 65 numbers of trees coming due to which the estimated cost of the scheme goes upto near about 4125 lacs.

III) Alternative III

This is left bank alternative involves construction of diversion structure at EL. 2735m on the Ghator nalla. The water of Ghator nala shall diverted through a 55 m long water conductor system to the forebay. The proposed Power house

and penstock consist of loose strata which is vulnerable to landslides and most of the alignment of the components are coming in cultivated land and habitant area inspite of that forest land is more than earlier mentioned alternatives because of length of the transmission line and road increasing . In this alternative near about 4.10 hectares of land is coming and 70 numbers of trees involving. The estimated cost of this alternate stands about 4210 Lacs.

In view of the advantages offered by the Alternative I, It has been taken up for preparing Detailed Project Report

A summarised view presented in table below:-

Sr. No.	Description	Alt-I	Alt -II	Alt-III
1	Forest land involved in Project components	3.7463	4.5200	4.1000
2	Road	1.279	2.4	4.6
3	Trees Coming in alignment of Project components	57	65	70
4	Estimated cost (in Lacs)	4051	4125	4210

This shows that alternative I shall be use minimum forest cover, less cutting of trees and economically viability

All alternatives are shown in drawing and enclosed

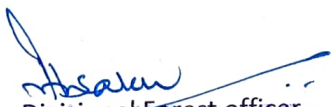
Place----Bharmour

Date-- 28/5/22

For Chandhy Ventures

Authorised Signatory

Countersigned by :


 Divisional Forest officer
 Bharmour Forest Division
 Bharmour
 Bharmour (H.P.)