Full Title of the Project:_____
File No. : _____
Date of Proposal: _____

JUSTIFICATION FOR LOCATING THE PROJECT.

This is to certify that the forest area involved in the proposal unavoidable and barest minimum forest area i.e.4.8639 hectare area is proposed for diversion for the construction of M/s Bloot Fozal Hydro Pvt Ltd (5M.W) at village Kathi, Kasta, Zingling, Narayndug in Distt kullu. Three alternatives have been considered for this project and adopted alternative uses minimum forest land and details are as under:

DETAILS OF ALTERNATIVES FOR THE PROJECT

Alternative I- This alternative involves construction of diversion structure of Fozal Khad at EL 2216 m. The left bank have exposed rocky strata at diversion site. The water conductor system consists of conveyance channel, surface desilting tank and 1700 m long power tunnel, surface forebay, surface penstock and surface power house near village Kasta on the left bank to the khad. The gross head shall be about190 m. In this alternative net head is slightly more than alternative II due to lesser length of water conductor system leading to higher annual generation of energy. Lesser land is required in this alternative and dispute with local people in this alternative has been minimized. Environmentally and financially this scheme is better than alternative land alternate III.

Alternative II- This mainly a left bank alternative. The alternative involves construction of diversion structure of El2216m on Fozal khad. The water conductor shall consist of conveyance channel, surfacing desiliting tank, cut and cover type power channel 4800 m long and surface penstock and a surface power house located at an El 2020 m on left side of Fozal khad. The gross head available for power generation shall be around 190m. Furthermore, open channel shall run into very steep slopes in few reaches which will have stability problems leading to time and cost over run problem. This alternative was proposed earlier and techno-economic clearance for it was accorded. In this alternative water conductor passes through cultivable land in many reaches and the local people are now refusing to give their land for the project. This alternative has therefore lost its feasibility and another alternative to it has to be found.

Alternative III- This alternative is on the right bank of the khad. In this alternative all the land required is private land. Moreover the land near proposed forebay and power house is slided portion where the construction of these components would be very difficult. There is also no road available near this alternate site, so more land will be required for the construction of the road.

A summarized view is presented in the table below

S.No	Description			
		Alt I	Alt II	Alt III
1	Road	2600	3250	3800
2	Road length in forest	2600	3250	3600

3	Water conductor in forest	1700	4800	3580
4	No of tree in alignment	70	95	110

Therefore, alternative- I which involves less forest area and lesser number of trees has been chosen for the layout of the project. This alternative is environmentally better than other two alternatives. Hence, Alternate -I is recommended for the diversion of 4.8639 ha. of Forest land for construction of Bloot Fozal Hydro project (5.00 MW).

Place :.....

Date :.....

Signature of User Agency
Office Seal
M/s BlootFozal Hydro Pvt Ltd
Authorized Signature

Range Forest Officer
Patlikuhal Forest Range

Divisional Forests Officer
.....Forest Division

Office Seal_____

Countersigned by:-
Divisional Forest Officer
Kullu Forest Division

Divisional Forest Officer
Kullu Forest Division Kullu