

Full titled of the project: Additional Forest diversion case of Integrated Kashang HEP
Stage-II & III

Fill No.: FP/HP/HYD/49387/2020

Date of proposal: 11.09.2020

Check List Number:-10

**JUSTIFICATION FOR LOCATING THE ADDITIONAL LAND PROPOSED FOR
DIVERSION & PROPOSED PROJECT IN THE FOREST AREA**

Justification of Locating the Project:-

The Kashang Stage-II&III HEP has been envisaged as a run -of-the-river/scheme diverting Water of Kerang Stream to an underground water conductor system (K-K-Link tunnel) leading into the Reservoirs of Stage-I and Stage-II & III. The area on right bank of Kerang and left bank of Kashang stream have been studied and surveyed in detail to accord various technical details and then two alternatives have been concluded as under:-

Alternative-I:

Comprises of diversion barrage across the Kerang stream near village Toktu at on El.3155m diverting water to an underground water conductor system (K-K-link tunnel) leading in to the Reservoirs of Stage-I and Stage-II&III.

Alternative-II:

Comprises of Trench Weir across the Kerang stream near village Loppo at an El.2872m diverting water to an underground water conductor system (K-K Link Tunnel) leading into the Reservoirs of stage-I and stage-II&III.

These two alternatives have been analyzed and scrutinized not only from technical point of view but also from the angle of causing least damage to environment besides using least forest area. During investigation, it was found that the Barrage of alternative-I was coming in the wild

life sanctuary and also the forest land required for the construction of Project was **32.811 Hect.** Consequently, the alternative-II was studied and the intake site was shifted to Lappo i.e. out of the wild life sanctuary and the forest land required for the construction of the Project was worked out as **17.6857 Hect.** The FC was accorded by MoEF&CC vide letter No. F.NO.9 HPC 366/09-CHA, dated 14th June, 2011 Ministry of Environment and Forest (FC Division dated 14th June 2011) Paryavaran Bhawan, CGO complex. Lodhi Road, New Delhi-110003, by Assistant Inspector General of Forest from Govt. of India.

Consequent to this exercise, the present alignment i.e. alternative-II has been found best suited and viable as the components of the project, intercept less forest land and are out of the wild life sanctuary, resulting in less environmental and ecological degradation as compared to alternative-I. Accordingly, alternative-II has been selected and adopted. Project Proponent had already obtained the clearance/NoC from National Board of wild life (NBWL) vide MoEF & CC wildlife Division, FN-0.6-47/2014WL in 31st Meeting dated 03.01.2014.

Since, construction of IKHEP Stage-I (65MW) has been completed in Sept. 2016 and is in generation stage. Whereas construction of stage-II&III (130 MW) has not conceived due to pending litigation in Hon'ble NGT. Now, the cases in Hon'ble NGT have been disposed-off and the villagers of Lippa are also welcoming for the construction of IKHEP stage-II&III. Balancing Reservoir of stage-I (BR-I) and other components has already been constructed and due to occurrence in physical changes in the hydrology, siltation problem is occurred during the summer and rainy season, for which, necessity of silt flushing Tunnel (SFT) has been arisen. Due to which need of additional Forest land to facilitate construction works of integrated Kashang HEP were envisaged for which Project proponent has proposed & investigated three alternates and concluded one alternate for diversion case as under:

Justification of proposed Diversion of Additional Land for Construction of SFT:-

Alternate -I:-

Alternate - I, Proposed for construction of SFT drain, is situated 8 meter away from SFT portal and the requirement of land for alternate I is 0.2205 ha. which is located in DPF-C 234, although there is huge numbers of Fully grown Deodar Trees (Total 58 Number) standing on the aforesaid land but, technically this land is not suitable for construction of SFT out fall since

it has huge number of trees and it is a avalanche prone zone with a vertical cliff, therefore this alternate is not considered, hence rejected.

Alternate II :

Alternate - II, Proposed for construction of SFT drain is situated 264 meter away from SFT portal, and the requirement of land is 0.3104 ha. which is located in DPF-C 234, although in this site too, there are no trees standing on the aforesaid land but, technical this land is not suitable for construction of SFT out fall since it is a avalanche prone zone , therefore this alternate is also not considered, hence rejected

Alternate III :

Alternate - III, Proposed for construction of SFT drain, is situated 360 meter away from SFT portal and the requirement of land for alternate III is 0.1920 ha. out of 0.4148 ha of total requirement of land for additional Forest Diversion case for Stage II & III, which is located in DPF-C 234, although in this site, there are only 4 number fully grown Deodar trees & 17 numbers sapling trees(12 sapling Deodar, 2 No's Kail& 3 No.'s Neoza) standing on the Proposed land but, technically and physically this land is best suitable for construction of SFT out fall/ drainage since it is not a avalanche prone zone geologically it is also suitable for the construction of SFT drainage/ out fall therefore this alternate is considered for the construction of SFT Out fall/ drainage .

Details of three alternates:-

SN	Alternate	Length of alignment (mts)	Area Involved (Ha)	No of trees Involved	Remarks
1	Alternate-I	245	0-22-05	58	Not suitable
2	Alternate-II	326	0-3104	Nil	Not suitable
3	Alternate-III	213	0-19-20	4 trees and 17 saplings	Suitable

Deputy Conservator of Forest
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At Reckong Peo .

Land
DGM (Civil)-cum-HOP
Stage II & III HPPCL
Reckong Peo