

Brief Summary of Project

Tiuni Plasu Hydro-Electric Project, conceived as R-O-R scheme across river Tons in Dehradun District of Uttarakhand, envisages utilization of gross head of about 67 m for annual power generation of 293.9 MU in a 90 % dependable year. The proposed barrage site on river Tons is 200m d/s of its confluence with river Pabbar. A surface power House (3X24 MW) on the left bank of river Tons near Naval village upstream of confluence of Suker Khad with the Tons, has been proposed. The Project Site is located on SH-1 (Dehradun – Koti – Atal – Tiuni) in Dehradun district of Uttarakhand State and is about 190 km from the nearest railhead Dehradun. The layout plan of the project is shown in Figure 1.1. The project shall comprise the following structures:

- 138 m long gated barrage comprising of one under sluice and 7 barrage bays of 15m width each with crest level at 909.5 masl and 911.00 masl respectively design for 6946 cumec.
- One Intake structure with 6 bays of 4.5m each with crest level at El. 917.5 m for 181 cumec design discharge
- Two nos. of 6 m diameter Intake tunnel of length 2.035 km each.
- Two nos. desilting chamber with hoppers to exclude silt particle size above 0.15 mm.
- 3.2 m diameter and 1300m long flushing tunnel with design discharge 18 cumec.
- 7.6 m dia., 1.85 km long Head race tunnel for design discharge 145 cumec.
- 35 m dia X 28 m high restricted Orifice type surge shaft.
- 3 Steel lined four m internal diameter penstocks of 110 m length each for design discharge of 48.33 cumec each
- Surface Power House of 66.0 m (L) x 19.50 m (W) x 45.2 m (H) having an installation of 3 Nos. Vertical Francis type turbines of 24MW each operating under rated head of 63.0 m.
- 40m long tail race channel.

For execution of the project 65.342 ha land shall be required of which the apportionment between Private, Forest and State land shall be 21.654 ha, 42.473 and 1.215 ha respectively. No archaeological monument of national importance either lies in the project area or in its submergence area. No National Park, Sanctuary, Defense Establishments, Archeological Monuments, Notified Eco-sensitive areas or protected area under Wild Life (Protection) Act exists within the project area or within 15 km distance from it. Govind Pashu Vihar Wildlife Sanctuary is about 22. Km away from the barrage site.

The Expert Appraisal Committee examined the project in great depth and vide letter no. J-12011/39/2007-IA-I dated 18-02-2008 accorded clearance for pre-construction activities in the proposed site along with determination of "Terms of Reference" (TOR) for preparation of EIA/EMP report for project with installed capacity 66MW.

The installed capacity of the project (66MW) has been enhanced to 72MW as per the DPR submitted to CEA August 2010. The CEA has approved the installed capacity as 72MW. In view of the enhanced installed capacity and request from the project proponent the MoEF, vide letter no. J-12011/39/2007-1A-1 dated 12-10-2010, averred that "The ToR granted for 66MW may be used for preparation of EIA report for 72MW"

The baseline study of environmental parameters as suggested in the ToR were carried out during post – monsoon 2012, pre-monsoon 2013 and monsoon 2013. The public hearing was conducted on 26-10-2015 at Barrage Site, Tiuni in the presence of panel comprising of ADM Dehradun and representatives of UEPPCB.

After incorporating the compliance of the issues raised during public hearing, the EIA/EMP reports of the project for consideration of EC (Proposal No.: IA/UK/RIV/42241/2010;MoEFCC File No.: J-12011/39/2007-1A-1) was uploaded on 25 January, 2016.

The MoEF & CC vide letter no. 12011/12/2016-IA-1 (R) dated 13th June, 2016, intimated that since the validity of ToR for Tiuni Plasu HEP (72 MW) was already over on 11.10.2015. Therefore, the project proponent may apply online for fresh Terms of Reference as per EIA Notification, 2006. In the light of the above circumstances the fresh application for scoping clearance is being filed.