



INTRODUCTION:

H.P. Power Transmission Corporation Ltd. (HPPTCL) as State Transmission Utility is responsible for construction and maintenance of Intrastate Transmission Lines and Sub stations of 66 kV and above with in the State of Himachal Pradesh. In order to evacuate power potential in five river basins of the state, a Power System Master Plan (PSMP) has been prepared with Technical Assistance amounting to \$0.9 Million from Asian Development bank (ADB). Power System Master Plan envisages construction of 66 kV and above sub stations and High Capacity transmission Lines at identified locations to evacuate potential from medium/ large as well as Small HEPs (up to 25 MW) in a phased manner. The high capacity sub stations and transmission lines (220 kV and above), for which ADB has approved a Multi Tranche Financing Facilities (MFF) loan (90% grant and 10% loan) of \$ 350 Million under H. P. Clean Energy Transmission Investment program, will primarily evacuate power from medium and large projects but power of Small HEPs of the order of 2300 MW, shall also be evacuated through these sub stations and lines. However, the transmission system (132 kV and below) to transfer power from Small HEPs up to the Pooling sub stations is not covered under ADB loan and funds for these works are being sourced from alternative financing agencies viz. REC, PFC etc.

The existing transmission network in the state is primarily owned by HPSEBL and it has only marginal redundancy to evacuate the power from the upcoming projects. Power Grid has also created its own transmission network (220 kV and above) with a sole objective of evacuating power from Central Sector projects. In a couple of cases of Allain-Duhangan and Baspa-II HEPs, promoters of the projects have constructed their own dedicated lines up to the Interstate pooling stations. While the Transmission network created/ being created by CTU and JV Companies is capable of evacuating the estimated potential outside the state, the Intra State network required for



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wheeling the generated power up to the Interstate Pooling stations owned by PGCIL is being developed by HPPTCL (STU). In addition, HPPTCL shall also coordinate/ Interact with CEA/ PGCIL and other STUs/IPPs in the matters concerning evacuation of power from various hydel projects under implementation in the state.

MASTER PLAN FEATURES

For the purpose of planning and also taking in to account the fact that various Small projects are located in the shape of clusters in different parts of the state, the entire state has been divided in to 8 different zones viz. **Andhra- Nogli, Kotla- Bhoktoo, Sirmour, Gharola, Chamba, Kurthala, Palampur and Kullu**. Details of Small projects in each Zone for which the valley wise plans have been finalized is available in **Annexure-I**.

Exhibits for Valley wise Transmission Plans for evacuation of power from Small as well as large projects are also available on the HPPTCL site <www.hpptcl.gov.in>.

FUNDING ARRANGEMENT:

1. FUNDS FROM REC

- a. 33/220 KV, 50/63 MVA SUB STATION AT KARIAN (CHAMBA) IN RAVI BASIN WITH 220 KV CONNECTING LINE UP TO 220/400 KV POOLING STATION OF PGCIL NEAR CHAMERA-II HEP.
 - b. 33/220 KV, 2X31.5 MVA SUB STATION AT FOZAL IN BEAS BASIN WITH LILO OF 220 KV PRINI-NALAGARH LINE OF M/S ADHPL.
2. TRANSMISSION PROJECTS FOR WHICH ADB FUNDS ARE PROPOSED ARE AVAILABLE AS TRANCH-1, TRANCH-2 AND TRANCH-3 ON THE WBSITE OF HPPTCL.