

**GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER**

Tarbela 5th Extension Hydropower Project



ENVIRONMENTAL AND SOCIAL ASSESSMENT

Addendum May 2016

**Water and Power Development Authority (WAPDA)
National Transmission & Despatch Company (NTDC)**

Pakistan – Additional Financing to Tarbela Fourth Extension Hydropower Project

Addendum to the ESA of Tarbela 5th Extension Hydropower Project

Objectives of this Addendum

There has been a change in the scope of the proposed Tarbela 5th Hydropower Extension Project (T5HP) since the clearance and disclosure of the Environmental and Social Assessment (ESA) report on March 3, 2016. The Objective of this addendum is to explain the minor change in the scope of the project and thereby the changes in the environmental and social documentation prepared for T5HP.

Original scope of the Project presented in this ESA and list of deliverables prepared

The original scope of the project, as described in Chapter 3 of the ESA, covers both the power generation and evacuation facilities under T5HP. The power generation facilities include the works related to modification of the existing Tunnel No.5 of Tarbela Hydropower Project, a new power house and a switch yard. The power evacuation facilities include the proposed 50 km of transmission line (500-kV) from new switchyard to Islamabad West Grid Station and the land acquisition of 500 kV Islamabad West grid station. The grid station itself, including all equipment, and control station etc., is included in the new “National Transmission Modernization I Project” proposed to be financed by the World Bank.

Water and Power Development Authority (WAPDA) and National Transmission & Despatch Company (NTDC) of Pakistan have carried out environmental assessment of the T5HP and completed four safeguard reports. These are (i) Environmental and Social Assessment, (ii) an Executive Summary of the ESA, (iii) Land Acquisition and Resettlement Framework (LARF) for T5HP Transmission Line; and (ii) Resettlement Action Plan (RAP) for the Islamabad West Grid Station. All these reports, except the RAP, were disclosed on the World Bank InfoShop on March 3, 2016. The NTDC submitted the RAP for the grid station to the World Bank for its clearance on April 18, 2016.

Changes in the scope of the Project activities since the ESA was last disclosed

The land acquisition portion of Islamabad West Grid Station has been dropped from the current scope of the T5HP and moved into “National Transmission Modernization I Project”. The reasons for this change are given below:

The Islamabad West Grid Station has been identified as one of the primary grid stations for evacuation of power from proposed 26 hydropower projects in Indus cascade and northern Pakistan. Both T5HP and Dasu Hydropower Project (another bank funded project in Pakistan) will be connected to this grid station. The development of this grid station has been considered as one of the subprojects under the proposed “National Transmission Modernization I Project”. This is also a proposed World Bank program which would invest in high-priority transmission infrastructure in Pakistan.

Land acquisition is a lengthy process under the Land Acquisition Act of Pakistan. Preparation of projects requiring land acquisition is often delayed due to the lengthy administrative process

(e.g. obtaining land records and issue of gazette notification) involved during preparation of resettlement action plans. Considering that development of Islamabad West Grid station is required to be completed before T5HP and Dasu Hydropower Stage I Project are commissioned in 2020 and the preparation of the proposed “National Transmission Modernization I Project” was still at initial stage, the Bank decided to advance the preparation of RAP and its land acquisition process for the Islamabad West Grid Station under T5HP. The RAP has been finally prepared under the T5HP.

Meanwhile, the preparation of the “National Transmission Modernization I Project” has picked up speed and is now at an advanced stage. It is expected to be ready for the Bank approval early 2017. Hence, it is considered appropriate to include the land acquisition of Islamabad West Grid Station along with the station itself under National Transmission Modernization 1 Project.

Revisions in the ESA to reflect changes in the scope of the Project

Due to the exclusion of the land acquisition of the Islamabad West Grid Station from the T5HP, the following minor changes are needed in the current ESA.

Changes in list of Reports: This ESA states that four reports have been prepared under the T5HP. These are: (i) ESA executive summary, (ii) ESA, (iii) LARF for transmission line and (iv) RAP for the grid station. The RAP for the grid station has been taken out from T5HP documentation and will be presented under the “National Transmission Modernization I Project” safeguard documentation. Hence, the list of the reports prepared under the T5HP has been revised to three and these are: (i) ESA executive summary, (ii) ESA, (iii) LARF for transmission line.

Changes in Chapter 3: Chapter 3 covers the Project Description. The only changes in this chapter is that the land acquisition is excluded from T5HP. The overall project cost has been revised to 823.5 million USD.

Changes in the Chapter 4, 5, 6, 7, 8, 9 and 12: Chapter 4 covers the baseline environment of the grid station. Chapter 5 covers the analysis of alternatives of the grid station. Chapter 6 covers the greenhouse gases emissions from the grid station. Chapter 7 and 8 covers the environmental and social impacts of the grid station. Chapter 9 covers the cumulative impact assessment. Chapter 12 covers the consultations near the grid station. Though the Islamabad West Grid Station is not part of the T5HP and will be developed under another World Bank financed project, the description related to the Islamabad west grid station and associated environmental and social issues have been still retained as part of the current ESA; and no changes were made in these chapters of ESA.

Changes in Chapter 11: The Chapter 11 covers the environmental and social management plan of both transmission line and grid station along with budget for implementation of RAPs. The budget for RAP of the grid station is USD 14 million and this amount has been taken out from the ESMP budget. The institutional mechanism of both transmission line and grid station is the same and hence no changes are required in implementation mechanism.