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ENERGY POLICY PROGRAM REFURBISHMENT & UP-GRADATION WORK AT MANGLA HYDROELECTRIC POWER STATION

VISIT REPORT – JUNE 2014



June 2014

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ENERGY POLICY PROGRAM (EPP)

Refurbishment & Up-gradation of Mangla Hydro-electric Power Station

Visit Report – June 2014

Contract No: AID-EPP-I-00-03-00004

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House 4, Street 88, Sector G-6/3
Ataturk Avenue, Islamabad
Phone: +92-51- 8357072 ● Fax: +92-51-8357071
Email: jhicks@aeai.net



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Acronyms

AEAI	Advanced Engineering Associates International
EPP	Energy Policy Program
FARA	Fixed Amount Reimbursable Agreement
GOP	Government of Pakistan
GM	General Manger
HPP	Hydro Power Project
MW	Megawatt, unit of electrical power, 1 million watts,
MOWP	Ministry of Water and Power
NBP	National Bank of Pakistan
O & M	Operations and Maintenance
OEM	Original Equipment Manufacturer
PIL	Project Implementation Letter
PO	Purchase Order
SBP	State Bank of Pakistan
USAID	United States Agency for International Development
USD	United States Dollar, \$
WAPDA	Water and Power Development Authority

Purpose of Visit

A visit to Mangla Power Station was conducted by EPP experts Mr. Saleem Paracha and Asif Majeed on June 20, 2014 and meetings were held between Chief Engineer & Project Director Mangla Rehabilitation Project. During meetings discussions were held regarding the implementation and monitoring of the Mangla project and USAID reporting requirements as specified in the PIL, status of procurements of major equipment and discussions regarding the evaluation, monitoring and inspection of the rehabilitation works.

During the visit total generation was 980 MW and Units 5&6 were generating 80 & 100 MW each. Units 5&6 will generate 135 MW each after the completion of the rehabilitation works; therefore, the power plant capacity will increase by 90 MW.

EPP also inspected Unit#4 - transformer which was damaged in early June 2014. The damaged transformer was replaced with a spare transformer and power generation was restored in four days. A photograph of the damaged transformer is in the Annexure.

Project Progress

1. WAPDA Mangla received \$13 Million in their assignment account - NBP Islamabad on May 22, 2014. This is the first milestone disbursement as per payment schedule of the PIL.
2. Bid documents for the Turbines and Generators Units 5 & 6 were issued to the following four pre-qualified bidders;
 - Alstom Hydro, France.
 - Andritz Hydro, Germany.
 - Dongfang Electric Corporation, China.
 - Voith Hydro, Germany.

Subsequent to the extension request from Alstom and Andritz, WAPDA extended the bid opening date to June 30, 2014. WAPDA approved the evaluation committee consisting of MWH-NESPAK and WAPDA to witness the bids opening and evaluation of the bids as per evaluation criteria specified in the bid documents.

3. Upon recommendations of the MRP Consultants MWH-NESPAK, WAPDA approved the procurement of Power House Bridge Cranes Rehabilitation works from OEM - Hitachi, Japan. Subsequently bid documents were issued to Hitachi.
4. Bid documents for the procurement of Inlet Valves seals and other parts are ready for submission to the pre-qualified bidders.
5. Bid documents for the Balance of Plant for Electrical and Mechanical Works are under preparation.

Critical Issues

1. Extension in the Turbines/ Generators bid opening date may delay the overall completion of the project. WAPDA Lahore may be requested to expedite the evaluation and award of the contract on fast track basis to achieve the project completion by December 2017.
2. WAPDA was informed that the withdrawals from and uses of the funds from Mangla Assignment Account shall be compliant with the terms and conditions of the Activity Agreement and PIL.
3. WAPDA Lahore to expedite the posting of additional staff at Mangla to enable project office to efficiently and timely discharge their duties.

Annexure:



Figure 1: Inspecting the Damaged Transformer of Unit#4



Figure 2: Damaged Transformer of Unit#4

www.ep-ep.com.pk
info@ep-ep.com.pk