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PAKISTAN

MONTHLY REPORT
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**USAID: TARBELA FIXED AMOUNT
REIMBURSEMENT AGREEMENT**

REHABILITATION OF TARBELA HYDRO- POWER PLANT

TARBELA DAM

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Rehabilitation of Tarbela Hydropower Plant under FARA:

The rehabilitation/repair work to date has resulted in the restoration of 128 MWs at Tarbela Hydropower plant. Replacement of generator windings has been completed at units 1, 3 & 4, and spare seals & guides and pumps installed.

The remaining replacement/repair work, which will increase the reliability and sustainability of the power plant, but not support restoration of additional megawatts, includes:

- Replacing the Electromechanical governors with digital governors
- Up grading the SCADA system;
- Spare parts for Unit-3 winding; and
- Replacing one dewatering pump.

The above mentioned rehabilitation work is anticipated to go beyond the completion date of December 2012 due to the delay in the procurement of Digital Governors and SCADA System. In this regard, WAPDA submitted an extension request to USAID, and a response is awaited.

EPP assisted WAPDA in preparing request for an additional funding of \$25.26 million and submitted to USAID for consideration on October 10, 2012. Equipment purchased through additional funding will further enhance the reliability and sustainability at the Tarbela power plant.

The Environmental Audit of Tarbela was shared with the concerned staff at the power plant to follow the recommendations given by the auditors to ensure compliance with the EMMP.

Amendment-I of the Tarbela FARA has revised the completion date of the project to December 31, 2012. Of the \$16.5 million USG funding committed for Tarbela, total disbursement as of October 2012 is \$11,249,917.

The current status of the Tarbela FARA is tabulated below:

LINE ITEM #	UNIT #	WORK ITEM DESCRIPTION	AMOUNT (USD)	CLAIMS SUBMITTED (USD)	PRESENT STATUS
1	4	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#4	3,700,000	3,700,000	Work completed and 100% amount reimbursed
2	3	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#3	3,700,000	2,849,917	Installation of windings completed on May 25, 2012. 100% amount-less spares-has been reimbursed. WAPDA has placed PO for the spares.

LINE ITEM #	UNIT #	WORK ITEM DESCRIPTION	AMOUNT (USD)	CLAIMS SUBMITTED (USD)	PRESENT STATUS
3	I	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#I	3,700,000	3,700,000	Work completed and 100% amount reimbursed
4	I-14	Upgrading of the SCADA System, Units I-14	1,000,000		SCADA System was awarded in early August 2012 with a completion period of 14 months. Therefore, the testing and commissioning of this activity is scheduled to be completed in October 2013
5	I-10	Spare Seals & Guides for Relief & Bypass Valves on Turbine Side, Units I-10	500,000	500,000	Installation completed on all units. 100% amount has been disbursed to WAPDA
6	I-10	Replacement of Electromechanical Governors by Digital Ones, Unit I-10	3,000,000		Digital Governors were inspected by WAPDA Engineers at GE, USA and are reached at Karachi Port and expected to reach at site by mid-November The installation and commissioning of the Digital Governors on Units I – 10 is anticipated to be completed in June 2013
7	I-10	Replacement of Worn out Station Drainage & Dewatering Pumps, Units I-10	400,000		Installation completed on all units.
8		Training	500,000	500,000	20 engineers from Tarbela power station have completed training on O&M in Switzerland. 100% amount disbursed to WAPDA.
Total			16,500,000	11,249,917	