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**PAKISTAN**

**MONTHLY REPORT**  
**November 2012**

**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:**

An inspection visit was made to the Tarbela Power Plant on November 17, 2012. During the visit, EPP reviewed progress on the completion of the rehabilitation work and urged the plant management to expedite completion of the work. Discussions were also held on the training requirements of the WAPDA staff.



Inspection of the data monitoring at the control center, Tarbela Power Station

During the reporting month, the complete equipment under FARA item 6 (digital governors) was received at the site. As per the FARA, the digital governors worth \$ 3 million will replace the electromechanical governors for units 1-10 and add to reliability and sustainability at the Tarbela power plant. EPP certified the

reimbursement claim of \$ 2.7 million for the equipment and submitted the invoice to the USAID Energy Office for approval. The remaining \$0.3 million will be processed upon installation of the equipment. EPP coordinated and supported WAPDA in preparing responses to observations made by the GOP and USAID OIG auditors.

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 November 2012 is \$13,949,9171. The current status of the Tarbela FARA is tabulated below:

Table 3: Status of Tarbela FARA

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.
3	1	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#1	3,700,000	3,700,000	Work completed and 100% amount reimbursed

<sup>1</sup> EPP certified claims of \$13,949,917; out of which \$2,700,000 is in process with USAID

LINE ITEM #	UNIT #	WORK ITEM DESCRIPTION	AMOUNT (USD)	CLAIMS SUBMITTED (USD)	PRESENT STATUS
4	I-14	Upgrading of the SCADA System, Units I-14	1,000,000		SCADA System award is in final stages with a completion period of 14 months. Therefore, the testing and commissioning of this activity is anticipated to go beyond the agreement completion date of Dec 31, 2012.
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	2,700,000*	Digital Governors were inspected by WAPDA Engineers at General Electric, USA and have reached at Karachi Port. The equipment arrived at site on 30 November. The installation and commissioning of the Digital Governors on Units I – 10 is anticipated to be completed in June 2013. Claim for 90% payment was received and forwarded to USAID/ENR for approval on November 20, 2012, as per the terms and conditions of FARA.
7	I-10	Replacement of Worn out Station Drainage & Dewatering Pumps, Units I-10	400,000		Installation completed on all units. However, reimbursement is on hold as one small pump (required under FARA) is being procured by WAPDA to comply the specifications of FARA.
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.
<b>Total</b>			<b>16,500,000</b>	<b>13,949,917</b>	