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MONTHLY REPORT MARCH 2013 REHABILITATION OF TARBELA HYDROPOWER PLANT

USAID: TARBELA FIXED AMOUNT REIMBURSEMENT AGREEMENT

April 2013

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Contract No: AID-EPP-I-00-03-00004
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Rehabilitation of Tarbela Hydropower Plant under FARA:

The rehabilitation work to date has resulted in the restoration of 128 MW at Tarbela Hydropower plant. Replacement of generator windings at units 1, 3 & 4, and installation of spare seals, guides and pumps is complete. The power generation target of 128 MW set in the FARA has been achieved.

On March 5th, the U.S. Ambassador Richard Olson visited the Tarbela dam and announced completion of the major rehabilitation work which supported addition of 128MW to the national grid. EPP facilitated the visit working closely with USAID and WAPDA.

The procurement and installation of the remaining equipment digital governors and SCADA system is underway which will increase the reliability and sustainability of the power plant. Delays were encountered in the procurement of the aforementioned equipment due to negotiations with the vendor for synchronizing with NTDC SCADA system, and because of stringent procedures of seeking permissions from Ministry of Interior for vendors to visit the plant. WAPDA submitted a time extension request to USAID for completion of the remaining equipment. EPP supported WAPDA in preparing the extension request. Subsequently Amendment No. 2 of the Activity Agreement was signed and the project completion date was extended till December 31, 2013.

WAPDA has also requested USAID for an additional funding of \$25 million for procurement of equipment that will reduce outages at Tarbela, increase reliability and sustainability of the operations. A additional 20MW gain is also anticipated with the equipment replacement. EPP engineers visited Tarbela on March 2, 2013 to assess the conditions of equipment for which WAPDA has requested additional funds of \$25 million. EPP supported WAPDA/Tarbela in preparation of technical specifications and milestone schedule for additional \$25 million equipment requested by WAPDA. The specifications/milestones documents have been submitted to USAID for consideration. On request of USAID, EPP also drafted PIL 'Activity Description' for the additional funding, and submitted to USAID for their review. EPP submitted comments on the draft Initial Environmental Examination (IEE) prepared for the equipment replacement from additional funding of \$25 million.

For the implementation of the EMMP, a follow up visit to Tarbela Dam was conducted by Hagler Bailey I. The observations made by the visiting team were shared with WAPDA/Tarbela for necessary corrective action and submitted environmental report to USAID for review.

Of the \$16.5 million USG funding committed for Tarbela, total disbursement as of March 2013 has reached to \$13,949,917. The detailed status of the Tarbela FARA is tabulated below:

¹ Hagler Bailey is an engineering firm contracted by EPP to ensure the environmental compliance and implementation of the Environmental Mitigation and Monitoring Plan (EMMP) of the projects FARAs and Activity Agreements

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 and the amount will be reimbursed upon shipment.
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
4	1-14	Upgrading of the SCADA System, Units 1-14	1,000,000		SCADA System award is in final stages. PO is expected to be placed in April.
5	1-10	Spare Seals & Guides for Relief & Bypass Valves on Turbine Side, Units 1-10	500,000	500,000	Installation completed on all units. 100% amount reimbursed.
6	1-10	Replacement of Electromechanical Governors by Digital Ones, Unit 1-10	3,000,000	2,700,000	The equipment arrived at site on 30 November. The installation and commissioning of the Digital Governors on Units 1 – 10 is anticipated to be completed in June 2013.90% amount reimbursed.
7	1-10	Replacement of Worn out Station Drainage & Dewatering Pumps, Units 1-10	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.
Total			16,500,000	13,949,917	

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