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# USAID ENERGY POLICY PROGRAM

## MONTHLY REPORT JANUARY 2013 REHABILITATION OF TARBELA HYDROPOWER PLANT

USAID: TARBELA FIXED AMOUNT REIMBURSEMENT AGREEMENT

**February 2013**

*This program is made possible by the support of the American people through the United States Agency for International Development (USAID)*

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## REHABILITATION OF TARBELA HYDROPOWER PLANT

USAID: TARBELA FIXED AMOUNT REIMBURSEMENT AGREEMENT

Contract No: AID-EPP-I-00-03-00004  
Task Order 08

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### **DISCLAIMER**

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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.

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. In this regard, WAPDA submitted a time extension request to USAID for completion of the remaining equipment. 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 \$25.6 million to procure equipment that will reduce outages at Tarbela, increase reliability and sustainability of the operations. In addition a 20MW gain is also anticipated.

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

Table 3: Status of Tarbela FARA

<b>LINE ITEM #</b>	<b>UNIT #</b>	<b>WORK ITEM DESCRIPTION</b>	<b>AMOUNT (USD)</b>	<b>CLAIMS SUBMITTED (USD)</b>	<b>PRESENT STATUS</b>
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 within February. .
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	3,000,000	2,700,000	The equipment arrived at site on 30 November. The installation and

LINE ITEM #	UNIT #	WORK ITEM DESCRIPTION	AMOUNT (USD)	CLAIMS SUBMITTED (USD)	PRESENT STATUS
		by Digital Ones, Unit I-10			commissioning of the Digital Governors on Units 1 – 10 is anticipated to be completed in June 2013.90% amount reimbursed.
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>	

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