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USAID ENERGY POLICY PROGRAM

MONTHLY REPORT SEPTEMBER 2012

REPAIR AND REHABILITATION OF MUZAFFARGARH THERMAL POWER STATION

October 2012

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

Order No: AID-391-TO-12-00002

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Rehabilitation of Muzaffargarh TPS under Activity Agreement:



During the reporting month, a monitoring visit was made by EPP to Muzaffargarh TPS to verify progress of the rehabilitation work and certify that the received equipment (impeller, gear boxes, and motors) is in accordance with the PIL (items number 19, 20, and 28 were verified). EPP experts also visited the fuel oil testing facilities at the plant and analyzed the plant's fuel measurement mechanism.



The rehabilitation/replacement work to date has resulted in 280MW of capacity being restored out of total estimated gains of 475 MW. After rehabilitation of the boiler super heater tubes at units 1, 2 & 3, 230 MW of capacity has been restored and with the replacement of air pre-heater elements (intermediate and cold end) at unit 4, another 50MW was added.

For the implementation of the EMMP, a follow up visit to MTPS was conducted by Hagler Bailey¹. The observations made by the visiting team were shared with the plant management to take necessary corrective action.

During the reporting month, a claim of \$ 337,605 was verified and submitted to the USAID Energy Office for approval. As of September 2012, a total of \$ 7,648,888 has been disbursed to the GENCO. Status of the MTPS Activity Agreement is tabulated on the next page:

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

Line Item No.	Unit No.	Work Item Description	Agreement Amount	Claims Submitted under FARA	Claims submitted under new PIL	Status
1	1,2&3	Rehabilitation of Boiler super heater tubes to overcome failure of tubes	\$4,080,000	\$4,080,000		Material received and installed at site. 100% Claim reimbursed from USAID
2	1- 4	Special Cooling Water Treatment.	\$187,440			Tender opened for the fourth time on 26.06.2012 but no firm participated. It will be tendered again on 11.09.2012
3	1-6	Use of Fuel Oil Additive as done on Unit-4 (450 Tons).	\$921,225			Re-Tendered and opened in March 2012. Evaluation completed and file is under process for CEO approval
4	1,2&3	Replacement of Cold layer element for RAH (2 sets)	\$170,000	\$170,000		Material received and installed at site. 100% Claim reimbursed from USAID
5	1,2&3	Modification of Excitation system (3 set)	\$191,700			Tender opened in April 2012 and Bid Evaluation is in process
6	1,2&3	Electric motors for C.T. Fan (02 No) and for GRC fan. (01 No).	\$184,245		\$184,245	PO was issued on 23.09. 2011 for electric motors while LC opened on 02.02 2012 for GRC fan. Material is expected to reach at site in October 2012. Claim for 100% Payment (\$184,245) reimbursed by USAID
7	3	D.C. Storage batteries (01 Set).	\$60,000	\$60,000		Material received and installed at site. 100% Claim reimbursed from USAID
8	1,2&3	220Kv circuit breaker SF6 type (06 No).	\$337,605		\$337,605*	LC established on 03.08.2012. Claim for 100% payment (\$337,605) received and forward to USAID/ENR for approval on September 25, 2012
9	4	Re-blading of LP. Rotor (LP Turbine Rotor blades of row (6&7), pins & locking device).	\$787,035			PO issued and LC opened on 02.02.2012. Claim for 100% Payment (\$787,035) received but the claim was turned down because one item in PO was not included in the PIL. NPGCL will retender the

						dropped item and then file the claim again
10	4	Air Pre-Heater Elements (Intermediate and Cold) 02 sets	\$255,000	\$255,000		Material received and installed at site. Claim for 100% Payment (\$255,000) reimbursed by USAID
11	4	Up-grading of AVR System (01 set).	\$249,210			PO issued on 20.07.2012. Cash foreign budget allocated on 06.09.2012. CRRK office requested for establishment of LC
12	4	Replacing UPS I&2. (01 set).	\$62,835			PO issued. Cash foreign budget allocated on 06.09.2012. CRRK office requested for establishment of LC
13	4	DEH (01 set).	\$319,500			Approved for Retendering due to high rate. Retender is expected to be opened on 18.09.2012
14	4	Up-grading of FSSS System (01 set).	\$138,450			Approved for Retendering due to high rate. Retender is expected to be opened on 18.09.201.
15	4	Up-grading of TSI system BNC 3300 or equivalent (Turbine Supervisory Instrument) (01 set).	\$266,250			Approved for Retendering due to high rate. Retender is expected to be opened on 18.09.2012
16	1-6	Training and software/hardware cost for CMMS and off-line efficiency monitoring system. All Units	\$1,000,000			Technical offer opened in Feb 2012 but it is now be retendered
17	5&6	I.D. Fan Rotor/Impeller along with Housing and Dampers (04 Set).	\$625,000	\$562,500		Consignment received on 26.02.2011 and installed partially at unit 5. 90% claim (\$562,500) reimbursed by USAID
18	5&6	Air Pre heater Elements Hot end, intermediate & cold end layers along with seals for both units (04 Set).	\$639,000			PO issued on 20.07.2012. Cash foreign budget allocated on 06.09.2012. CRRK office requested for establishment of LC
19	5&6	Procurement of G.R.C. Fan Impeller/Rotor (01 Set).	\$33,548	\$33,548		Po issued and LC opened on 27.01.2012. Material received at site on 16.07.2012. Claim for 100% payment (\$33,548) reimbursed by USAID

20	5&6	Procurement of Cooling Tower Fan Gear Box & its parts. (06 No. gear box).	\$236,963	\$236,963*	PO issued and LC opened on 27.01.2012. Material received on site on 27.08.2012. Claim for 100% payment (\$236,963) with justification from NPGCL forwarded to USAID/ ENR for approval on June 15, 2012
21	5&6	Economizer Tubes for both Units (02 Sets)	\$2,130,000	\$2,130,000	Po issued and LC opened on 05.04.2012. Material is expected to reach at site in October 2012. Claim for 100% Payment (\$2,130,000) reimbursed by USAID
22	5&6	IP Turbine Rotor (01 No).	\$641,130		PO issued on 14.06.2012. Cash foreign budget allocated on 06.09.2012. CRRK office requested for establishment of LC.
23	5&6	Replacement of Damaged Exhaust flue gas ducts of material Russian Grade Steel sheets (50 M.T), Plate Type Heat Exchanger for Inner Water Cooling System of Generator and Motor for Starting Oil Pump (Vertical) Units 5-6	\$287,550		Tender opened and LOI issued on 28.05.2012. PO issued on 29.06.2012. Cash foreign budget allocated on 06.09.2012. CRRK office requested for establishment of LC
24	5&6	Conversion of Boiler Ignition System from Natural Gas to HSD/Furnace Oil	\$277,965		Tenders opened and evaluation completed. LOI to be issued
25	5&6	Repair of winding and stator of Generators and testing	\$319,500		Draft tender documents sent to GM office on 06.08.2012
26	5&6	Hydraulic coupling of Boiler Feed Water Pumps (01 No).	\$63,900		Tender opened but only one firm participated and rate quoted by the firm is ten times higher than the estimated cost
27	5&6	Modification of Excitation System	\$166,140		Tender opened and is under evaluation
28	5&6	Procurement of 0.4KV Motors for Cooling Towers Fan and APH 02	\$10,650	10,650	PO issued and LC opened in April 2012. Material received at site on 10.08.2012 Claim for 100% payment reimbursed
29	5&6	Procurement of 6.6KV Motor for C.W. Pumps, CP, ID Fan, FD Fan & BF	\$162,945	\$162,945	Po issued and LC opened in April 2012 Claim for 100%

		Pumps (05 No).				payment (\$162,945) reimbursed
30	5&6	Procurement of 6.6/0.4KV Breaker (5 No. 6KV breaker, 18Nos. 0.4Kv Breakers).	\$295,005			PO issued and request to establish LC of second PO has been made. Claim for 100% payment (\$295,005) rejected because LC of second PO was missing and was not opened
31	5&6	Protection Relay for Generators.	\$29,820			Tenders opened and LOI issued on 24.02.2012. PO issued on 31.05.2012. Cash foreign budget allocated on 06.09.2012. CRRK office requested for establishment of LC
32	5&6	MK Breakers, Seal Oil Coolers, PMG	\$169,335	\$169,335*		Consignment received at site. Claim for 100% payment (\$169,335) received and forwarded to USAID/ENR for approval on May 29, 2012
33	5&6	Supply, Installation, Commissioning & Testing of complete distributed control system (DCS) including field equipment such as sensors, transmitter & actuators etc. for turbine governing system DEH-III and Boiler Turbine Auto regulation system YEWPACK-II	\$213,000			Retendered and bid evaluation in process.
34	5&6	Rehabilitation of Furnace safety Supervisory System (FSSS) including Furnace camera, flame monitoring & ignition system	\$266,250			Tender opened and is under process.
Total			\$15,778,195	\$ 4,872,500	\$ 3,520,291	

Amount Reimbursed = **US\$ 7,648,888**

* EPP forwarded claims to USAID/ENR for approval against PIL item 8, 20 & 32 for \$743,903

Summary by Status as of September 30, 2012

Description	Number	Amount
Material Received at Site	9	\$ 5,640,496
LC opened and material is awaited	5	\$ 3,601,830
PO issued and LC is awaited	6	\$ 2,204,550
Performance Bond received and PO is awaited	-	-
LOI Issued and Performance Bond is awaited	-	-
Tender/Re-Tender opened and in process	7	\$ 2,100,180
Tender/Re-Tender Awaited	6	\$ 2,231,140
Total PIL Line Items	34	\$ 15,778,195

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