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USAID ENERGY POLICY PROGRAM

MONTHLY REPORT APRIL 2012

REPAIR AND REHABILITATION OF MUZAFFARGARH THERMAL POWER STATION

May 2012

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REPAIR AND REHABILITATION OF MUZAFFARGARH THERMAL POWER STATION

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

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Rehabilitation of Muzaffargarh TPS under Activity Agreement:

280MW capacity has been restored with the rehabilitation/replacement works out of the total estimated gains of 475 MW. After rehabilitation of boiler super heater tubes at Unit 1, 2 & 3, 230MW capacity has been restored and with replacement of air pre-heater elements (Intermediate and cold end) at Unit 4 another 50MW were added.

For the remaining equipment delays were anticipated in the procurement process due to the GENCO weak financial standing to pay on time through a letter of credit. Therefore, EPP experts worked with USAID in redefining the reimbursement process and revising the FARA to facilitate the GENCO in making timely payments. A new Activity Agreement and implementation letter was signed in April allowing GENCO to have necessary funding available for making timely payments to the vendors. The completion date per the revised activity agreement is June 30, 2013.

During the reporting month, the EPP team visited the plant to monitor progress and to expedite the procurement cases.

To ensure environmental compliance and implementation of EMMP, EPP contracted an engineering firm which carried out a site visit by mid-April. During the audit observations were made and issues were shared with the plant management to take necessary corrective actions. A follow up visit is scheduled for next month. An environmental audit report has been submitted to the USAID/ENR.

From \$15,778,195 assistance amount committed for Muzaffargarh, the total disbursement as of April, 2012, is \$4,872,500.

The schedule of status for the MTPS Activity Agreement is tabulated below:

LINE ITEM NO.	UNIT NO.	WORK ITEM DESCRIPTION	AMOUNT	PRESENT STATUS
1	1,2&3	Rehabilitation of Boiler super heater tubes to overcome failure of tubes	\$4,080,000	Material received and installed at site. 100% Claim reimbursed from USAID
2	1 - 4	Special Cooling Water Treatment.	\$187,440	Re-Tendered second time and opened in March 2012. Bid Evaluation is in process
3	1 - 6	Use of Fuel Oil Additive as done on Unit-4 (450 Tons).	\$921,225	Re-Tendered and opened in March 2012. Bid Evaluation is in process
4	1,2&3	Replacement of Cold layer element for RAH (2 sets)	\$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 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	PO has been 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 August 2012.
7	3	D.C. Storage batteries (01 Set).	\$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	PO issued and LC is in process
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
10	4	Air Pre-Heater Elements (Intermediate and Cold) 02 sets	\$255,000	Material received and installed at site.
11	4	Up-gradation of AVR System (01 set).	\$249,210	Tender opened and Bid evaluation is on going
12	4	Changing of UPS 1&2. (01 set).	\$62,835	Tender opened and Bid Evaluation is ongoing
13	4	DEH (01 set).	\$319,500	Tender opened in March 2012
14	4	Up-gradation of FSSS System (01 set).	\$138,450	Tender opened and bid submission is in process
15	4	Up-gradation of TSI system BNC 3300 or equivalent (Turbine Supervisory Instrument) (01 set).	\$266,250	Tender opened in March 2012 and bid submission is in process

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 and is under technical evaluation
17	5&6	I.D. Fan Rotor/Impeller along with Housing and Dampers (04 Set).	\$625,000	Consignment received on 26.02.2011 and installed partially at unit 5. 90% claim 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	Tender opened and Bid Evaluation is on going
19	5&6	Procurement of G.R.C. Fan Impeller/Rotor (01 Set).	\$33,548	Po issued and LC opened on 27.01.2012
LINE ITEM NO.	UNIT NO.	WORK ITEM DESCRIPTION	AMOUNT	PRESENT STATUS
20	5&6	Procurement of Cooling Tower Fan Gear Box & its parts. (06 No. gear box).	\$236,963	PO issued and LC opened on 27.01.2012
21	5&6	Economizer Tubes for both Units (02 Sets)	\$2,130,000	Po issued and LC opened on 05.04.2012
22	5&6	IP Turbine Rotor (01 No).	\$641,130	Tenders opened and bids evaluation is in process
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 is under evaluation
24	5&6	Conversion of Boiler Ignition System from Natural Gas to HSD/Furnace Oil	\$277,965	Tenders opened and evaluation is in process
25	5&6	Repair of winding and stator of Generators and testing	\$319,500	Tender will open in June 2012
26	5&6	Hydraulic coupling of Boiler Feed Water Pumps (01 No).	\$63,900	Tender opened and file sent for re- evaluation on 1.2.2012
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	PO issued and LC opened in April 2012
29	5&6	Procurement of 6.6KV Motor for C.W. Pumps, CP, ID Fan, FD Fan & BF Pumps (05 No).	\$162,945	Po issued and LC opened in April 2012

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 has been made.
31	5&6	Protection Relay for Generators.	\$29,820	Tenders opened and LOI issued on 24.02.2012
32	5&6	MK Breakers, Seal Oil Coolers, PMG	\$169,335	Consignment received at site.
33	5&6	Supply, Installation, Commissioning & Testing of complete distributed control system (DCS) including field equipment like sensors, transmitter & actuators etc. for turbine governing system DEH-III and Boiler Turbine Auto regulation system YEWPACK-II	\$213,000	Retendered and bid evaluation is in process
34	5&6	Rehabilitation of Furnace safety Supervisory System (FSSS) including Furnace camera, flame monitoring & ignition system	\$266,250	Demand sent to GM Thermal for administration approval of MD.
Total Allocated Amount (Under PIL)			\$15,778,195	

