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USAID ENERGY POLICY PROGRAM

MONTHLY REPORT JANUARY 2013

REPAIR AND REHABILITATION OF MUZAFFARGARH THERMAL POWER STATION

February 2013

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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, EPP visited Muzaffargarh TPS and physically inspected the major equipment (economizer tubes, breakers, motors), and verified the 150 megawatt gains at Unit 5 & 6. The rehabilitation work to date has resulted in 480 MW of capacity restoration at the power plant which exceeds the project objectives.

Moreover the amendment to the PIL is in progress to revise technical specifications. In this regard, EPP visited the plant in January and supported the GECNO in preparing a revision to the PIL. The PIL modification which is expected to be signed in February will help expedite payment of reimbursement claims held up due to deviations from the agreement's technical specifications.

The total amount disbursed to the GOP as of January 2013 is \$ 10,133,001¹. The detailed status of the MTPS Activity Agreement is tabulated on the next page:

¹ EPP certified claims of \$10,133,001; out of which \$337,605 will be disbursed after the PIL Amendment

Table 7: Status of MTPS Activity Agreement

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
2	1- 4	Special Cooling Water Treatment.	\$187,440			Tender opened for the 4 th time on 26.06.2012 but no firm participated. Tender again opened on 11.09.2012 and under evaluation process.
3	1-6	Use of Fuel Oil Additive as done on Unit-4 (450 Tons).	\$921,225			PO issued on 22.11.2012. Cash foreign exchange budget allocated on 11.12.2012 and request sent to establish LC.
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
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 received at site on 18.10.2012. Claim for 100% Payment reimbursed
7	3	D.C. Storage batteries (01 Set).	\$60,000	\$60,000		Material received and installed at site. 100% Claim reimbursed
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 received and forward to USAID/ENR for approval on September 25, 2012 however amendment in the PIL specification is required for its disbursement.

9	4	Re-blading of LP. Rotor (LP Turbine Rotor blades of row (6&7), pins & locking device).	\$787,035	\$787,035	Material received at site on 09.01.2013. Claim for 100% reimbursed
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 reimbursed
11	4	Up-grading of AVR System (01 set).	\$249,210	\$249,210	PO issued on 20.07.2012. LC opened on 12.10.2012. Claim for 100% Payment reimbursed
12	4	Replacing UPS I&2. (01 set).	\$62,835	\$62,835	Claim for 100% reimbursed
13	4	DEH (01 set).	\$319,500		Tender cancelled by CEO on 11.01.2013 and re-tender to be opened on 04.02.2013.
14	4	Up-grading of FSSS System (01 set).	\$138,450		Tender cancelled by CEO on 11.01.2013 and re-tender to be opened on 04.02.2013.
15	4	Up-grading of TSI system BNC 3300 or equivalent (Turbine Supervisory Instrument) (01 set).	\$266,250		Tender cancelled by CEO on 11.01.2013. Tender will again open on 04.02.2013.
16	1-6	Training and software/hardware cost for CMMS and off-line efficiency monitoring system. All Units	\$1,000,000		Tender cancelled by CEO on 11.01.2013. Tender will again open on 31.01.2013.
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 reimbursed
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.. LC established on 12.10.2012. Claim for 100% Payment (\$639,000) received but not forwarded to USAID/ENR due to specifications problem.
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 reimbursed

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 13.08.2012. Claim for 100% payment reimbursed
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. Received at site on 25.10.2012. Claim for 100% Payment reimbursed
22	5&6	IP Turbine Rotor (01 No).	\$641,130	\$641,130	PO issued on 14.06.2012. LC established on 12.10.2012. Claim for 100% Payment reimbursed
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		LC established for both the PO. Claim for 100% Payment received but not forwarded to USAID/ENR due to specifications problem.
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. Tender to be opened on 28.11.2012.
26	5&6	Hydraulic coupling of Boiler Feed Water Pumps (01 No).	\$63,900		Tender opened and under evaluation process.
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 15.10.2012. Claim for 100% payment reimbursed
29	5&6	Procurement of 6.6KV Motor for C.W. Pumps, CP, ID Fan, FD Fan & BF Pumps (05 No).	\$162,945	\$162,945	Po issued and LC opened in April 2012. Claim for 100% payment reimbursed

30	5&6	Procurement of 6.6/0.4KV Breaker (5 No. 6KV breaker, 18Nos. 0.4Kv Breakers).	\$295,005		LC opened on 12.10.2012. Claim for 100% Payment received but not forwarded to USAID/ENR due to specifications problem.
31	5&6	Protection Relay for Generators.	\$29,820		Tenders opened and LOI issued on 24.02.2012. PO issued on 31.05.2012. LC established on 12.10.2012. Claim for 100% Payment received but not forwarded to USAID/ENR due to specifications problem.
32	5&6	MK Breakers, Seal Oil Coolers, PMG	\$169,335	\$169,335	Consignment received at site. Claim for 100% payment reimbursed
33	5&6	Supply, Installation, Commissioning & Testing of complete distributed control system 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		Tender will again open on 11.02.2013.
34	5&6	Rehabilitation of Furnace safety Supervisory System including Furnace camera, flame monitoring & ignition system	\$266,250		Tender will again open in the first week of February.
Total			\$15,778,195	\$4,872,500	\$5,260,501

Claims Processed and Submitted to USAID = **\$10,133,001** (including * \$337,605 that will be disbursed after amendment in PIL)

Table 8: Summary of Status of Muzaffargarh TPS as of January 31, 2013

Description	Number	PIL Item #	Amount
Material Received at Site	12	1,4,6,7,9,10,17,19,20,21,28,32	\$8,741,776
LC opened and material is awaited	9	8, 11,12,18,22,23,29,30,31	\$2,705,100
PO issued and LC is awaited	1	3	\$921,225
Performance Bond received and PO is awaited	-	-	-
LOI Issued and Performance Bond is awaited	-	-	-
Tender/Re-Tender opened and in process	6	2,5, 24,25,26,27	\$1,206,645
Tender/Re-Tender Awaited	6	13,14,15,16,33,34	\$2,203,450
Total PIL Line Items	34		\$15,778,195

LC opened for PIL Item # 8, 18, 23, 30, 31 but their specifications are not as per PIL therefore claim will be processed on procurement of remaining items

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