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USAID ENERGY POLICY PROGRAM

MONTHLY PROGRESS REPORT MAY 2012 REPAIR AND REHABILITATION OF MUZAFFARGARH THERMAL POWER STATION

June 2012

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MONTHLY PROGRESS REPORT

MAY 2012

REPAIR AND REHABILITATION OF MUZAFFARGARH THERMAL POWER STATION

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:

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.

Under the revised agreement nine claims of \$3,969,721 were received from the GENCO. Two claims of \$1,023,998 do not conform with specifications in the PIL, therefore further justification is requested from the GENCO for USIAD to consider and make a decision. The request for the remaining 2,945,723 has been submitted to USAID/ENR for approval and further processing. In addition to this, \$4,872,500 has already been disbursed under the original FARA.

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

LINE ITEM NO.	UNIT NO.	WORK ITEM DESCRIPTION	TOTAL AMOUNT	CLAIMS SUBMITTED ON THE BASIS OF OLD FARA	CLAIMS SUBMITTED ON THE BASIS OF NEW PIL	PRESENT 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			Re-Tendered second time and opened in April 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	\$ 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 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. Claim for 100% Payment (\$184,245) submitted to USAID ENR.
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			PO issued and LC is in process
9	4	Re-blading of LP. Rotor (LP Turbine Rotor blades of row (6&7), pins &	\$787,035		\$787,035**	PO issued and LC opened on 02.02.2012 Claim for 100% Payment (\$787,035) is under consideration

LINE ITEM NO.	UNIT NO.	WORK ITEM DESCRIPTION	TOTAL AMOUNT	CLAIMS SUBMITTED ON THE BASIS OF OLD FARA	CLAIMS SUBMITTED ON THE BASIS OF NEW PIL	PRESENT STATUS
		locking device).				because one item in PO was dropped from PIL. NPGCL will send the justification for it.
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) received and submitted to USAID ENR on May 25, 2012
11	4	Up-gradation of AVR System (01 set).	\$249,210			Tender opened and Bid evaluation is on going
12	4	Changing of UPS I&2. (01 set).	\$62,835			Tender opened and Bid Evaluation is ongoing
13	4	DEH (01 set).	\$319,500			Re-Tender will be opened soon.
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 May 2012 and is under evaluation
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	\$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			Tender opened and Bid Evaluation is on going

LINE ITEM NO.	UNIT NO.	WORK ITEM DESCRIPTION	TOTAL AMOUNT	CLAIMS SUBMITTED ON THE BASIS OF OLD FARA	CLAIMS SUBMITTED ON THE BASIS OF NEW PIL	PRESENT STATUS
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 Claim for 100% payment (\$33,548) submitted to USAID ENR.
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 Claim for 100% payment (\$236,963) is under consideration because quantities of three items are different from PIL. NPGCL send the justification for it.
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 Claim for 100% Payment (\$2,130,000) submitted to USAID ENR.
22	5&6	IP Turbine Rotor (01 No).	\$641,130			LOI issued in May 2012.
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. But it is proposed to be dropped
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	\$63,900			Tender opened and file sent for re- evaluation on 1.2.2012. But it is

LINE ITEM NO.	UNIT NO.	WORK ITEM DESCRIPTION	TOTAL AMOUNT	CLAIMS SUBMITTED ON THE BASIS OF OLD FARA	CLAIMS SUBMITTED ON THE BASIS OF NEW PIL	PRESENT STATUS
		Water Pumps (01 No).				proposed to be dropped.
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 Claim for 100% payment (\$10,650) submitted to USAID
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 (\$162,945) submitted to USAID
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. Claim for 100% payment (\$295,005) received but LC was missing.
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		\$169,335*	Consignment received at site. Claim for 100% payment (\$169,335) received and submitted to USAID on May 29, 2012
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. But it is proposed to be dropped.
34	5&6	Rehabilitation of Furnace safety Supervisory System (FSSS) including	\$266,250			Demand sent to GM Thermal for administration approval of MD.

LINE ITEM NO.	UNIT NO.	WORK ITEM DESCRIPTION	TOTAL AMOUNT	CLAIMS SUBMITTED ON THE BASIS OF OLD FARA	CLAIMS SUBMITTED ON THE BASIS OF NEW PIL	PRESENT STATUS
		Furnace camera, flame monitoring & ignition system				But it is proposed to be dropped.
Total Amount			\$15,778,195	\$ 4,872,500	\$ 3,969,721	

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- Amount Reimbursed so far = **US\$ 4,872,500**
 - *Claims submitted to USAID/ENR = US\$ 2,945,723
 - **Claims that deviate from PIL specifications and require justification from NPGCL = US\$ 1,023,998

- **Summary by Status as of May 31, 2012**

Description	Numbers	Amount
Material Received at Site	6	\$ 5,359,335
LC opened and material is awaited	7	\$ 3,545,385
PO issued and LC is awaited	2	\$ 632,610
Performance Bond received and PO is awaited	-	-
LOI Issued and Performance Bond is awaited	2	\$ 670,950
Tender opened and in process	15	\$ 4,984,165
Tender Awaited	2	\$ 585,750
Total PIL Line Items	34	\$ 15,778,195

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