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PAKISTAN

ENERGY POLICY PROGRAM MONTHLY PROGRESS REPORT SEPTEMBER 2013



SEPTEMBER 2013

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ENERGY POLICY PROGRAM

MONTHLY PROGRESS REPORT: SEPTEMBER 2013

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Cover photo: US Ambassador Richard Olson at the inauguration ceremony of Gomal Zam Dam, South Waziristan on September 12, 2013

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ACRONYMS

AEAI	Advanced Engineering Associates International
CAR	Central Asian Republic
CEO	Chief Executive Officer
CFW	Corporate Finance Wing
CPGCL	Central Power Generation Company Ltd
DISCO	Distribution Company
ECC	Economic Coordination Committee
EPP	Energy Policy Program
FARA	Fixed Amount Reimbursable Agreement
FATA	Federally Administered Tribal Areas
FESCO	Faisalabad Electric Supply Company
FS	FATA Secretariat
FWO	Frontier Works Organization
FY	Financial year
GE	General Electric
GENCO	Generation Company
GEPCO	Gujranwala Electric Supply Company
GHCL	GENCO Holding Company Limited
GOP	Government of Pakistan
GTPS	Guddu Thermal Power Station
GZDP	Gomal Zam Dam Project
HEC	Heavy Electric Complex
HPP	Hydro Power Project
JTPS	Jamshoro Thermal Power Station
KPK	Khyber Pakhtunkhwa
KV	Kilovolts, 1000 volts, unit of electric potential (voltage)
LC	Letter of Credit
LESCO	Lahore Electricity Supply Company
LNG	Liquefied Natural Gas

MOF	Ministry of Finance
MPNR	Ministry of Petroleum and Natural Resources
MTPS	Muzaffargarh Thermal Power Station
MW	Megawatt, unit of electrical power, 1 million watts,
MWH	Montgomery Watson Harza
MWP	Ministry of Water and Power
NEPRA	National Electric Power Regulatory Authority
NPCC	National Power Control Center
NTDC	National Transmission and Despatch Company
O & M	Operations and Maintenance
OGRA	Oil & Gas Regulatory Authority
PC	Planning Commission
PDP	Power Distribution Program
PESCO	Peshawar Electricity Supply Company
PIL	Project Implementation Letter
PO	Purchase Order
PSRP	Power Sector Reform Program
PTF	Power Transformers
PWF	Pakistan WAPDA Foundation
QIP	Quick Impact Project
RFP	Request for Proposal
RPC	Reactive Power Compensation
SBP	State Bank of Pakistan
SCADA	Supervisory Control and Data Acquisition
TOR	Terms of Reference
ToU	Time of Use
TPS	Thermal Power Station
USAID	United States Agency for International Development
USD	United States Dollar, US\$
WAPDA	Water and Power Development Authority

PROGRAM OVERVIEW

USAID's Energy Policy Program (EPP) supports the jointly agreed upon interests of USAID and the Government of Pakistan in power generation and transmission and related policy reform activities. Current key activities include providing monitoring and implementation support to the following six signature energy projects:

- Four repair and maintenance projects (3 GENCOs and Tarbela) with total funding of US\$ 70.73 million.
- Two multipurpose dam completion projects (Gomal Zam and Satpara) with total funding of US\$ 71 million.

When completed, these projects will add more than 863MW to Pakistan's generating capacity. As of September 2013, a total of 913 MW have been added to Pakistan's electricity grid through USAID funding as shown in the following table.

Table I: Planned Capacity Additions for Signature Energy Projects

Project	Planned MW Gains per FARA	Expected Gains	MW Added (as of Sept 2013)
Muzaffargarh	165	475	480
Jamshoro	55	150	270
Guddu	95	75	-
Tarbela	80	128	128
Gomal Zam	17.4	17.4	17.4
Satpara	17.66	17.66	17.6
Total	430.06	863.06	913

EPP also is providing technical support to the Ministry of Water and Power (MWP) to identify and select new generation and transmission projects. Examples include potential imports of electricity from the Central Asian Republics to Pakistan through Afghanistan; and providing analytical support for projects such as Step I & II Due Diligence for the Kurram Tangi Project.

In addition, EPP is supporting generation & transmission related studies and policy reform activities assigned by USAID. These include developing GENCO and NTDC business plans; developing policies/procedures for the National Power Control Center; and advisory services at MWP and the Planning Commission (Energy Wing), Ministry of Finance (MOF), and Ministry of Petroleum and Natural Resources (MPNR).

Staffing: Contractor's level of effort is comprised of 85% Pakistani and 15% international staff.

Location: All Provinces and Federally Administered Tribal Areas

Total USAID Funding: US\$ 136.731 million for six signature energy projects

US\$ 14.893 Million EPP Phase II

COMPONENT I: PROJECT MONITORING & IMPLEMENTATION

The Energy Policy Program is providing monitoring and implementation support for the six Government-to-Government signature energy projects. These projects include rehabilitation of three thermal power plants (Muzaffargarh, Guddu and Jamshoro), and one hydropower plant (Tarbela Dam); and construction of two new multipurpose dams (Gomal Zam Dam and Satpara Dam). Total USG funding for these projects is US\$ 141.731 million (per revised agreements). As of September 2013, 913 MW have been added to Pakistan's national grid.

HYDROPOWER PLANTS

With a total funding of US\$ 87.5 million, as much as 163MW of generation is estimated to be added through the rehabilitation of Tarbela hydropower plant and completion of two multipurpose dams, Satpara and Gomal Zam.

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 relief valve seals, guides and pumps are complete. The remaining replacement/repair work will increase the reliability and sustainability of the power plant, but not support restoration of additional megawatts.

Installation of digital governor at Unit # 9 is complete; WAPDA will start installation on other units from mid-October. Remaining equipment (SCADA, Spare windings, & pump) is under procurement.

Of the US\$ 16.5 million USG funding committed for Tarbela, total disbursement as of September 2013 has reached to US\$ 13,949,917. The detailed status of the Tarbela FARA is tabulated under Annex I.

Gomal Zam Multipurpose Dam under Activity Agreement

On September 12, 2013, U.S. Ambassador Richard Olson visited the Gomal Zam dam and announced completion of Gomal Zam Multipurpose Dam Project, which has added 17.4 MW to the national grid benefitting to 276,900 individuals and giving water storage of 1.14 million acre ft. EPP facilitated the inauguration ceremony by working closely with USAID and WAPDA.

With the efforts of FATA administration and WAPDA, the abducted staff of WAPDA was released. However, FWO has beefed up security at the project site to avoid any such untoward incidents in the future.



Ambassador Olson and Federal Minister for Water & Power at the Gomal Zam Dam inauguration

Of the US\$ 45 million USG funding committed for Gomal Zam (energy component), the total disbursement as of September 2013 is US\$ 45,000,000. Detailed status of the Gomal Zam Activity Agreement is tabulated under Annex II.

Satpara Multipurpose Dam under Activity Agreement

Under the Satpara Dam activity agreement, all four powerhouses are completed and commissioned, capable of generating 17.6 MW.

On completion of small irrigation works, WAPDA has completed the work of DR-I. EPP plans to conduct a site visit next month monitor and verify the works completion.

During the reporting month, EPP held a meeting with USAID and WAPDA Advisor (North) and discussed the handing over of the project from WAPDA to the Gilgit-Baltistan Government. It was highlight that the handing over is important for the sustainability of project operations.

Per Amendment No 4 to the Activity Agreement, the completion of the project is December 31, 2013. Of the US\$ 26 million USG funding committed for Satpara, total disbursement as of September 2013 is US\$ 25,166,700. The status of Satpara Activity Agreement is tabulated under Annex III.

THERMAL POWER PLANTS

With a funding of US\$ 54.231 million, a total of 700MW are estimated to be restored through the rehabilitation of three thermal power plants. The baseline condition of these plants at the time of signing of the FARA was 315MW; however due to further deration of the plants' operating capacity, estimated gains were increased to 700MW.

Rehabilitation of Muzaffargarh TPS under Activity Agreement

The rehabilitation work to date has resulted in 480 MW of capacity restoration at the power plant which exceeds the target of 475 MW set in the Agreement. NPGCL has already completed the rehabilitation of boiler super heater tubes at Unit 1, 2 & 3, replacement of air pre-heater elements at Unit 4, overhauling and replacement of ID Fans and ducts at Unit 5, 6 and other major equipment which added 480 megawatts of power generation capacity to the national grid. Procurement of remaining equipment is in progress.

EPP supported Muzaffargarh in the custom/GST exemption and submitted the documents to USAID. USAID issued an exemption letter which will be used by NPGCL in getting the tax exemption from EAD.

Amendment to the Activity Agreement revised the project completion date to December 31, 2013 and obligated the incremental funding to cover the insurance and freight. Total amount disbursed to the GOP as of September 2013 is US\$ 12,195,906. Detailed status of the MTPS Activity Agreement is tabulated under Annex IV.

Rehabilitation of Jamshoro TPS under Activity Agreement

A high level USG delegation led by the U.S. Ambassador Richard Olson visited the Jamshoro Thermal Power Station of September 26, 2013. During the visit, Ambassador Olson was accompanied by USAID Mission Director Gregory Gottlieb and Karachi Consul General Michael Dodman. The Ambassador inspected the ongoing work and machinery delivered to JTPS under the activity agreement, and announced completion of the major rehabilitation work which supported addition of 270 MW to the national grid, benefitting to 4.3 million individuals.

EPP supported Jamshoro in the custom/GST exemption and submitted the documents to USAID. USAID issued an exemption letter which will be used by JPCL in getting the tax exemption from EAD.

An amendment No. 1 to the Activity Agreement revised the project completion date to March 31, 2014 and obligated the incremental funding to cover the insurance and freight. The total amount disbursed to the GOP as of September 2013 is US\$ 15,244,275. Annex V carries the status of JTPS activity agreement.



USG delegation led by Ambassador Olson visiting JTPS

Rehabilitation of Guddu TPS under Activity Agreement

Further to the Agreement between Guddu and General Electric (GE), major equipment has been shipped for the uprate and expected to reach at site in October, and the installation will take three months as per the Agreement. The total gains expected after rehabilitation are about 75 MW.

EPP facilitated a meeting between USAID, GE and Guddu to discuss the implementation issues and scheduling of units shutdown. Guddu was advised to take NPCC approval for the units shutdown in mid-November.

EPP supported Guddu in the custom/GST exemption and submitted the documents to USAID. USAID issued an exemption letter which will be used by CPGCL in getting the tax exemption from EAD.

The total amount disbursed as of September 2013 is US\$ 17,338,790. The status of the Guddu TPS Activity Agreement can be found under Annex VI.

GENCOS PERFORMANCE EFFICIENCY IMPROVEMENT PROGRAM

Upon GENCO Holding Company Limited's request for support in performing heat rate tests of the GENCOs in order to obtain a revised tariff from NEPRA, EPP initiated work on the activity in October 2012. The activity is being carried out in phases:

Phase I - Heat Rate Testing & Calibration of Flow Meters

Calibration of Flow Meters

EPP placed a purchase order with SGS for the calibration of meters at the three GENCOs located at Jamshoro, Muzaffargarh and Guddu. Oil flow meters at Jamshoro and, Muzaffargarh have been tested and calibrated at SGS facility in Karachi, while gas flow meters at Guddu are being calibrated at power plant. EPP engineers inspected all the meters calibrations and provided specifications of orifice plate to SGS to expedite the calibration. Some meters at Muzaffargarh were found faulty for which EPP has already initiated the procurement.

Heat Rate and Dependable Capacity Testing

This effort is been undertaken to support the power generation companies in revising their tariffs to facilitate sustainable operations.

Heat rate tests were conducted at JTPS units 1, 2, 3 & 4 in the presence of NEPRA, CPPA, PES, EPP and JTPS representatives. PES submitted the final report after incorporating EPP comments. The report will be submitted to USAID for their review. The HR testing report will also be submitted to NEPRA once finalized.

Phase II – Procurement/Installation of New Meters

Six bids received for procurement of flow meters for Muzaffargarh. EPP evaluated the bids and a PO has been placed.

Capacity Building at GENCOs and WAPDA

EPP is moving forward with the Operation and Maintenance training program at the three GENCOs and hydro's. TOR's were shared with GHCL/GENCO and WAPDA for comments.

Subsequently, RFP was floated to three international firms for both hydro and thermal trainings. However due to security reason two firms declined, and only one firm submitted the proposal which does not fully comply with the TORs. On thermal training, EPP re-bid the RFP for additional companies and individuals for open competition. Bids have been received from two companies and evaluation of the bids is ongoing. While on hydro trainings, EPP is in process of acquiring the services from a professional trainer.

COMPONENT 2: POLICY AND REFORM

SUPPORT TO GOVERNANCE AND REFORM TEAM, MINISTRY OF WATER AND POWER

EPP is supporting the MWP in implementing the GOP's Power Sector Reform Program in generation, transmission, fuels, policy and finance.

Power Sector Integrated Model

EPP continued stakeholder consultations on the Power Sector Integrated Model (PSIM). Meetings were held with NEPRA, MWP and USAID. The Non-Disclosure Agreement on the PSIM is expected to be signed in October. The Advisor to the Prime Minister has assured of his support and lobbying for the PSIM once a signed NDA has been shared with him.

SUPPORT TO MINISTRY OF FINANCE

EPP assisted the Ministry of Finance, Corporate Finance wing in preparation of their comments on:

- Summary for the Prime Minister submitted by Ministry of Water and Power for appointment of consultant to prepare a Bankable Feasibility Study of the 6,600 MW electricity project on imported coal, at Gadani, Balochistan.
- Summary submitted by Ministry of Water and Power for the Cabinet, seeking approval of the MOU signed by Ministry of Water and Power with Chinese Companies for the establishment of Coal Power Generation Plant at Gadani in Balochistan Province.
- Draft audit paras of the internal auditor regarding payments of tariff differential subsidy to the distribution companies.
- Proposal submitted by Ministry of Water and Power to further amend the "Policy Framework for Fast Track Development of Biomass for Power Generation" already approved by the ECC.

EPP prepared briefs for:

- The Secretary Finance on Financial Management and Control System for release of funds/subsidies to various GOP entities, proposing some changes in the procedures to facilitate the timely release of such funds.
- The Adviser to Ministry of Finance on Ghazi Barotha Hydropower Project.

EPP supported the Corporate Finance wing in preparation of reply for Assembly Questions relating to Power Sector Circular Debt.

SUPPORT TO PLANNING COMMISSION

EPP assisted in drafting working papers on Study for Master Plan of 6,600 MW Pakistan Power Park at Gaddani, Balochistan, and 35 MW Nagdar Hydro Power Project and 40 MW Dowarian Hydro Power Project.

EPP team backed up data from Member Energy's official computer and shared it with the Chief of Party and Deputy Chief of Party as directed by Member of Energy. EPP also provided routine system and network trouble shooting and general technical assistance to the office of Member (Energy) and Minister of Planning and Development to carry out routine assignments smoothly.

SUPPORT TO MINISTRY OF PETROLEUM & NATURAL RESOURCES

LNG Imports

In coordination with ISGS and QED, EPP prepared and consolidated replies to comments/queries from prospective bidders in coordination with ISGS and QED. These queries were received in response to the RFP that was issued by ISGS for the Fast Track LNG Project.

EPP supported QED and ISGS in preparing the draft LNG Services Agreement (LSA). The LSA was finalized on September 15, 2013 and circulated to the bidders. EPP attended several meetings with ISGS, SSGC, and MPNR to discuss the key aspects of LSA. One of these meetings was attended by the Minister and Secretary MPNR.



Pre-bid meeting in progress

EPP hosted the pre-bid meeting on September 16, 2013 at Serena Hotel, Islamabad. Sixteen bidders along with their representatives participated in the meeting. During the meeting a run-down of the RFP and key terms of the LSA were discussed. The session was followed by a Q & A session. Follow-up actions and schedules were agreed during the meeting. Coordination was carried out with QED and ISGS regarding the responses/queries of the

bidders on draft LNG Services Agreement (LSA) and revised RFP. EPP team attended a video conference session with QED team at ISGS office Islamabad in the presence of ISGS team and MD, ISGS.

On the LNG Retrofit project, EPP followed up on the commercial evaluation of bidder's offer with SSGC and QED. QED team travelled to Karachi from Islamabad and presented the commercial evaluation of the project to SSGC Board. The board recommended to proceed with the preferred bidder and will refer the matter to MPNR for ECC approval.

EPP coordinated with PQA after receiving a formal request by ISGS to engage QED for work related to PQA for the LNG Import Program. A QED consultant travelled to Karachi to work with PQA and SSGC regarding handling of LNG carriers and LNG terminal requirements as well as for deliberations and discussions on the issues related to PQA related queries of the bidders and port improvements for LNG imports.

EPP drafted DO-6 amendment and submitted the same to the home office for execution.

Shale Gas

EPP is waiting for the official letter from DGPC for the commencement of the program. The letter from DGPC was sent to EAD to be forwarded to EPP. Followed up the matter with DGPC, Secretary MPNR and EAD. The Secretary also intervened and followed up the matter

with EAD and informed EPP accordingly. It was learnt that EAD approval is not required since the program is fully funded by USAID.

LMKR team and Nutech visited EPP office and apprised of their preparations and way forward for the program.

Upstream Oil and Gas support

In response to the RFP issued by the procurement division, EPP selected one bidder. The subject was discussed with DGPC and the DG requested to expedite the appointment of the E&P Company which is urgently required.

An introductory meeting was held between the selected bidder and EPP team. A draft contract is under development. Negotiations proceeded with the selected bidder on draft contract.

Issues and Steps Taken to Resolve Them

- Delay in Shale Gas program commencement:

There has been a delay in program commencement principally owing to some confusion regarding EAD approval. EPP followed up actively with MPNR, DGPC and EAD. It was learnt that MPNR will issue the letter regarding 'go-ahead' shortly since EAD approval is not required.

Planned activities for the coming month

- Continuation of LNG Fast Track Program
- Shale Gas kick-off meeting and program commencement.
- E & P: Development of E & P contract with bidder and drafting documents for contract approval by USAID - Follow up approvals and others discussion with MPNR.

ENERGY SECTOR INTERNSHIP PROGRAM

An internship program evaluation was conducted amongst the graduating interns at Guddu Thermal Power Station (Batch II). Out of the total 127 interns (26 females; 101 males) inducted from 42 districts, 83 (13 females; 70 males) have graduated as of September 2013. Of the graduating interns, more than 15% have obtained jobs in well reputed organizations such as BHP Billiton, KESC (Karachi Electric Supply Company), Bestway Cement, Guddu Thermal Power Station, and Quetta Electric Supply Company (QESCO) etc.

No.	Organization	Males	Females	Total Interns
Ongoing				
1.	QESCO	4	4	8
2.	NTDC Quetta	6	0	6
3.	SSGC Quetta	3	3	6
4.	Water & Power Dept. Gilgit	18	6	24
	Sub-total	31	13	44

No.	Organization	Males	Females	Total Interns	Graduation Date
Completed the Internship					
5.	Jamshoro Thermal Power Station	7	2	9	April 30, 2013
6.	Lakhra Thermal Power Station	13	3	16	April 30, 2013
7.	Guddu Thermal Power Station I	11	1	12	June 16, 2013
8.	Electra Consultants (KPK)	7	0	7	June 23, 2013
9.	Muzaffargarh Thermal Power Station	11	3	14	July 27, 2013
10.	NTDC Mardan	2	0	2	July 6, 2013
11.	NTDC Muzaffargarh	3	0	3	July 31, 2013
12.	NTDC Peshawar	3	0	3	July 3, 2013
13.	NTDC Hyderabad	0	2	2	August 5, 2013
14.	NTDC Dadu	1	0	1	August 5, 2013
15.	NTDC Jamshoro	1	0	1	August 5, 2013
16.	NTDC Sukkur	1	0	1	August 5, 2013
17.	Guddu Thermal Power Station II	10	2	12	September 30, 2013
	Sub-total	70	13	83	
	Grand Total	101	26	127	

COMPONENT 3: NEW PROJECTS, PLANNING & DEVELOPMENT

MANGLA

EPP assisted USAID prepare for and initiate EMMP for the Mangla Rehabilitation Project. Meetings were held with visiting Regional Environmental Advisor, Mr. Barannik and EPP subcontractors Hagler Bailly. The scope of work of the study was discussed. EPP also held meeting with WAPDA on the project. A visit to the Mangla Power Station was proposed and scheduled with WAPDA but was later cancelled owing to inability of Regional Advisor to travel. Meanwhile, EPP also assisted USAID finalize 6I I(e) Certification for the Project.

Impact

The USAID funded portion of the rehabilitation project will give new life to 200 MW, increase generation capacity by 70 MW, enable generation of additional 600 GWh and modernize all balance of plant to ensure increased reliability of the eventual 1,310 MW power plant.

Issues/Constraint

The PC I is yet to be approved which will enable signing of PIL and AA for the activity.

An EMMP has to be completed for the project.

Steps Taken

Reminders sent to WAPDA to expedite approval

Planned Activities for the Next Month

Continue monitoring progress on PC I approval process and facilitate work by HB to complete the EMMP for the project.

RUN-OF-RIVER

EPP assisted USAID evaluate request from WAPDA for support to four run-of-river hydropower projects that are close to completion but short on funds. These are the 96 MW Jinnah, 121 MW Alai Khwar, 72 MW Khan Khwar and 130 MW Duber Khwar power projects. These run-of-rive facilities were damaged during floods of 2010 when they were under construction and owing to repair and recovery works, the project budgets have crossed planned and approved figures. USAID has been requested to provide around US\$ 60 million to complete the projects.

Impact

The projects will add 419 MW cheap and clean hydroelectric power to the National Grid.

Issues/Constraint

Two of the projects are completed while the other two are close to completion. Work is ongoing and it is difficult to precisely determine what exactly the USAID funds will be used for.

Steps Taken

EPP has been working with WAPDA to come up with details satisfactory for USAID to take a decision.

COMPONENT 4: NEW ACTIVITIES

PESCO

EPP is focusing on strengthening the power transmission network and on capacity building for power sector entities involved in transmission, specifically the Peshawar Electric Supply Company (PESCO).

Power Transformer Program

EPP compiled inspection reports of damaged power transformers at 10/13 MVA at 132 kV GS Balakot & Oghi and 15 MVA at 132 kV GS Battal. EPP handed over 109 cooling fans to PESCO.

A new scope of work was prepared for the hiring services of a new company for oil testing. The procurement process has been initiated. During the reporting month, oil samples were collected from 39 power transformers, installed at various grid stations throughout KPK.

Circuit Breaker Repair/Replacement

Circuit breaker drawings were approved by NTDC. PESCO has nominated their executive for the inspection of Factory Acceptance Tests (FAT) of 132 kV Alstom Circuit Breakers. Technical evaluation of circuit breakers, current transformers and capacitor cells was completed. The report has been submitted to procurement division for further processing.

Reactive Power Compensation Study

The draft report submitted by PPI on Reactive Power Compensation (RPC) study was reviewed by EPP. A complete list of comments has been shared with PPI for finalization of the report.

Technical Audit of Grid Stations

Technical audit of thirty-two (32) grid stations was carried out during the month of September. The reports are being compiled. Corrective (and preventive) measures would be recommended/taken as per findings. Technical audit of 68% substations have been completed till date.

Maintenance Workshop

The RFP for acquiring architectural services of a firm for the design and construction of the workshop is being drafted.

Transmission Line

EPP carried out an inspection of damaged /vulnerable towers in Mardan, Peshawar and Swat divisions, and a detail SOW is being prepared. Damaged/vulnerable transmission towers of 132 kV Haripur-Abbottabad Transmission Line have been identified and the detailed report is under review by EPP. Corrective measures would be taken as per requirements.

Telemetry

EPP completed the installation of Uninterrupted Power Supplies (UPS) at Common Delivery Points (CDPs). Three energy meters and two DCUs were installed at 132 kV Tarnawa & 132 kV Murree substations. These CDPs were not part of the original CDP list. However, upon receiving request from PESCO, EPP decided to add these additional meters/DCUs.

Live Line

The current session of live line training is progressing as per schedule.

EPP met with Chief Engineer Technical Services Group (TSG), NTDC and GM Services Division, NTDC regarding the upcoming Live Line training sessions. The issue of upgrading/rehabilitating NTDC training centers was also discussed and a request letter obtained. Meetings were conducted with SEPCO and MEPCO authorities for nomination of trainees for upcoming live line training sessions starting from Jan 2014.

The scope of work for procurement of tool trailers was prepared.

NTDC

Upon NTDC's request of support in extending the Secured Metering System to DISCOs, EPP team designed a secured, reliable & easily scalable architecture and shared it with NTDC.

EPP team led by the Chief of Party held several meetings with the MD NTDC. During the meetings support to NTDC on various programs/projects was discussed. EPP also discussed layout & internal architecture of meters/modules/devices/IEDs being deployed as per SMS rollout plan. EPP briefed NTDC about the proposed layout, which talks about integrating SMS with SCADA using existing communication infrastructure. NTDC showed positive intent on implementing the EPPs' plan.

EPP finalized the schedule for audit of NTDC grid stations. The audit activity started from 220 kV Grid Station Bund Road on September 30, 2013

REGIONAL EFFORTS

The review of concept paper is underway. EPP responded to queries raised by ADB (Asian Development Bank).

Issues

Due to law and order situation, programmatic activities in the KPK province were halted.

Steps Taken

EPP team focused on completion of documentation and reports during the activity shut down time.

ADMINISTRATION/MANAGEMENT SUPPORT TO EPP

Administration is structured to support on-going and planned project activities while ensuring contractual compliance. Administration encompasses the following functions: Accounting/Finance, Human Resources, Procurement & Contracts, Logistics and IT. In implementing these functions, processes and policies are developed to ensure uniformity of efforts.

ACCOUNTING/FINANCE

Miscellaneous payments were made to vendors during the month. Payroll and financial reconciliations were completed.

Worked on USAID's PAKINFO Program with respect to August-2013 for allocating cost to various districts has been completed.

Reviewed Payment Vouchers for the month to ascertain that adequate documentation has been gathered and that the working papers have been documented and provide an adequate basis for reporting.

Revised Projections for the project for FY13 – FY15 according to the procurements in pipe line and estimated completion date. Reviewed Monthly Financial Report for Sep-13.

PROCUREMENT

Office equipment/supplies and services were procured to support EPP operations. EPP continued monitoring project support activities at the office and guesthouse.

- 7 Nokia Cellular Phone Purchase for AEAI, ISB office
- 2 BlackBerry Cellular Phones Purchased for AEAI, ISB office
- 2 RF Mobile signals enhancer antennas Purchased for AEAI, ISB office
- 1 Business Class network router Purchased for AEAI, PSH office
- Procurement of 1 Bar code machine and Printer for labels printing for AEAI, ISB (Procurement department) to connect with QuickBooks's Point of Sale software.
- 5 Laptops Purchasing for new hires
- 1 Xerox Multifunction FAX Purchasing for AEAI, PSH office
- Multimedia sound system Purchasing for AEAI, PSH office
- 1 Color LaserJet Printer Purchasing for Mr. Salahuddin Rifai/Kevin Thomas (NPCC, ISB)
- 1 Western digital 2TB LIVE Storage drive Purchased for AEAI, ISB (Communication department)
- New 2nd Internet connection setup along with Nayatel Digital HD box service at AEAI, ISB Guest house -1)

- Miscellaneous IT Accessories like USB Optical Mouse, Cables, Power Adapters, Laptop bags, etc.

LOGISTICS

Logistical support was provided for 65 trips made by project staff. International travel for expats was arranged, and regular follow up was maintained with the Ministry of Foreign Affairs for obtaining longer term visas for the expats.

HUMAN RESOURCES

During the reporting month, Completed Recruitment for the following staff

1. ERP Advisor
2. ERP Lead Advisor
3. Transmission Engineer
4. Transmission Engineer.

IT

EPP staff performed trouble shooting for IT equipment in the EPP office and guesthouse and for operations at the ministries; all related matters were resolved during the month

ANNEXES

ANNEX I: STATUS OF TARBELA FARA

Line Item No.	Unit No.	Work Item Description	Amount (US\$ Million)	Claims Submitted (US\$ Million)	Present Status
1	4	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#4	3.7	3.7	Work completed. 100% amount reimbursed
2	3	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#3	3.7	2.849	Installation of windings completed. 100% amount-less spares-has been reimbursed. WAPDA is in process of placing the PO for the spares.
3	1	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#1	3.7	3.7	Work completed. 100% amount reimbursed
4	1-14	Upgrading of the SCADA System, Units 1-14	1.0		SCADA System award is in final stages. WAPDA requested the Supplier (ABB) to furnish performance guarantee to finalize the contract.
5	1-10	Spare Seals & Guides for Relief & Bypass Valves on Turbine Side, Units 1-10	0.5	0.5	Installation completed. 100% amount reimbursed.
6	1-10	Replacement of Electromechanical Governors by Digital Ones, Unit 1-10	3.0	2.7	Installation on Unit 9 is completed. Installation on other units will start from mid-October .90% amount reimbursed.
7	1-10	Replacement of Worn out Station Drainage & Dewatering Pumps, Units 1-10	0.4		Installation completed on all units. However, reimbursement is on hold as one small pump (required under FARA) is being procured by WAPDA to comply with the FARA's specifications. WAPDA is in tendering stage to procure the remaining small pump.
8		Training	0.5	0.5	20 engineers from Tarbela power station have completed training on O&M in Switzerland. 100% amount reimbursed.
Total			16.5	13.949	

ANNEX II: STATUS OF GOMAL ZAM ACTIVITY AGREEMENT

Line Item No.	Work Item Description	Completion Status	Amount (US\$ Million)	Claims Submitted (US\$ Million)	Present Status
1.	Main Dam, Spillways Concrete & Related Works	88%	19.171	19.171	Work Completed. 100% claim reimbursed.
2.	Hydropower & Switchgear Component	90%	0.757	0.757	Work Completed. 100% claim reimbursed.
3	Main Dam and Spillways Concrete & Related Works	91%	5.125	5.125	Work Completed. 100% claim reimbursed.
4.	Main Dam & Spillways, Concrete & Related Works	100%	5.125	5.125	Work Completed. 100% claim reimbursed.
5.	Hydropower & Switchgear Component	50% of remaining 10% works by Dec 9, 2011	0.920	0.920	Work Completed. 100% claim reimbursed.
5a.	Hydropower & Switchgear Component	100% by Mar 31, 2013	0.920	0.920	Work Completed. 100% claim reimbursed.
6.	132kV Transmission Line & related works	50%	1.0	1.0	Work Completed. 100% claim reimbursed.
7.	132kV Transmission Line and related works	100%	0.5	0.5	Work Completed. 100% claim reimbursed.
7a.	132kV Transmission Line and related works	100% by Mar 31, 2013	0.5	0.5	Work Completed. 100% claim reimbursed.
8a.	Completion of Mechanical testing of Dam fixture	100%	2.0	2.0	Work Completed. 100% claim reimbursed.
8b.	Completion of Project - Filling of Reservoir, Testing, & Placement in Commercial Operation	50% by Dec 9, 2011	1.991	1.991	Work Completed. 100% claim reimbursed.
8c.	Completion of Project - Filling of Reservoir, Testing, & Placement in Commercial Operation	100% by Mar 31, 2013	1.991	1.991	Power house testing completed. 17.4 MW added to the national grid.
9.	Interest, penalties, other financial charges, and price adjustments			24.5	As and when required through September 30, 2012.
10.	Administrative & Security Cost			9.0	As and when required through September 30, 2012.
11.	Increased cost of labor & equipment user fees resulting from 6 months of construction delays	100% by Mar 2013	5.0	5.0	Claim of 5.0 million reimbursed.
Total			45	45	

ANNEX III: STATUS OF SATPARA ACTIVITY AGREEMENT

Line Item No.	Work Item Description	Completion Status	Amount (US\$ Million)	Claims Submitted (US\$ Million)	Present Status
1.	Civil Works for Dam & Power House 1 & 2	94%	4.500	4.500	Work Completed. 100% Claim reimbursed.
2.	Civil Works for Dam and Power House 1 & 2	100%	1.877	1.877	Work Completed. 100% Claim reimbursed
3.	Civil, Electrical & Mechanical Work for Power Houses 3 & 4	50%	5.846	5.846	Work Completed. 100% reimbursed
4.	Civil, Electrical & Mechanical Work for Power Houses 3 & 4	100% by Jul 31, 2013	3.681	3.681	Work Completed. Power house 3 & 4 are commissioned. 100% Claim reimbursed
5.	Irrigation System	78 %	2.530	2.530	Work Completed. 100% Claim reimbursed
6.	Irrigation System	89 %	2.282	2.282	Work Completed. 100% Claim reimbursed
7.	Irrigation System	90 % by Dec 09, 2011	2.0538	2.054	Work Completed. 100% claim reimbursed
7a.	Irrigation System	100% by Dec 31, 2013	0.2282		99.9% work completed. Work on DR-1 in progress
8.	Consultancy Services	81%	0.0853	0.085	Work Completed. 100% Claim reimbursed
9.	Consultancy Services	90%	0.400	0.400	Work Completed. 100% Claim reimbursed
10.	Consultancy Services	100% by Dec 31, 2013	0.390		Ongoing till project end
11.	Project completion with Testing & Placement in Commercial Operation	90% by Dec 09, 2011	1.9116	1.9116	Work Completed. 100% Claim reimbursed
11a.	Completion of Project, with Testing & Placement in Commercial Operation	100% by Dec 31, 2013	0.2124		Milestone 99.9% complete
Total			26	25.166	

ANNEX IV: STATUS OF MTPS ACTIVITY AGREEMENT

Line Item No.	Unit No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted under FARA (US\$)	Claims Submitted under New PIL (US\$)	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. Claim for 100% reimbursed
2	1- 4	Special Cooling Water Treatment.	187,440		187,440	PO issued on 25.03.2013. LC opened on 26.06.2013. Claim for 100% reimbursed
3	1-6	Use of Fuel Oil Additive as done on Unit-4 (450 Tons).	921,225		921,225	Material received at site. PO issued on 22.11.2012. LC opened on 21.01.2013. Claim for 100% reimbursed.
4	1, 2 & 3	Replacement of Cold layer element for RAH (2 sets)	170,000	170,000		Material received and installed at site. Claim for 100% reimbursed
5	1, 2 & 3	Modification of Excitation system (3 set)	191,700			Tender opened in April 2012 and Bid Evaluation is in process. LOI issued on 19.04.2013. Performance bond is awaited from the supplier from last months; reminders have been issued but no response from the supplier. It is expected to be re-tendered again.
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. Claim for 100% reimbursed
8	1, 2 & 3	220Kv circuit breaker SF6 type (06 No).	337,605		337,605	Material received at site. LC established on 03.08.2012. Claim for 100% reimbursed
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

Line Item No.	Unit No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted under FARA (US\$)	Claims Submitted under New PIL (US\$)	Status
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	Material received at site. Claim for 100% reimbursed
13	4	DEH (01 set).	319,500			Re-Tender opened on 27.02.2013 and evaluation completed. LOI Issued on 22.08.2013.
14	4	Up-grading of FSSS System (01 set).	138,450			Re-Tender opened on 27.02.2013 and evaluation completed. LOI Issued on 22.08.2013..
15	4	Up-grading of TSI system BNC 3300 or equivalent (Turbine Supervisory Instrument) (01 set).	266,250			Re-Tender opened on 27.02.2013 and evaluation completed. LOI Issued on 22.08.2013..
16	1-6	Training and software/hardware cost for CMMS and off-line efficiency monitoring system. All Units	1,000,000			PO Issued for LOT-I and LOT-II but LOI issued on 29.08.2013 of LOT-III.
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 but some sub items was not procured. NPGCL will procure the remaining equipment's and then submit the claim. PO issued for the remaining equipment and CRRK office requested for establishment of LC on 29.08.2013.
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

Line Item No.	Unit No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted under FARA (US\$)	Claims Submitted under New PIL (US\$)	Status
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		287,550	Material received at site. LC established for both the PO. Claim for 100% reimbursed
24		Deleted				
25	5 & 6	Repair of winding and stator of Generators and testing	319,500			Tender opened on 28.11.2012. Evaluation completed and LOI issued on 26.08.2013.
26	5 & 6	Hydraulic coupling of Boiler Feed Water Pumps (01 No).	341,865		341,865	PO issued on 26.03.2013. LC established on 19.07.2013. Claim for 100% Payment reimbursed.
27	5 & 6	Modification of Excitation System	166,140			LOI issued on 15.03.2013 but cancelled on 27.08.2013 as the supplier did not provide performance guarantee. It will be re-tendered.
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. Material received at site. 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		295,005	LC opened on 12.10.2012. Claim for 100% reimbursed
31	5 & 6	Protection Relay for Generators.	29,820		29,820	Material received at site. Tenders opened and LOI issued on 24.02.2012. PO issued on 31.05.2012. LC established on 12.10.2012. Claim for 100% reimbursed

Line Item No.	Unit No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted under FARA (US\$)	Claims Submitted under New PIL (US\$)	Status
32	5 & 6	MK Breakers, Seal Oil Coolers, PMG	169,335		169,335	Material 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			Re-tender opened on 27.06.2013 and under evaluation process.
34	5 & 6	Rehabilitation of Furnace safety Supervisory System including Furnace camera, flame monitoring & ignition system	266,250			Re-Tender opened on 30.1.2013 and evaluation completed. LOI issued on 27.08.2013.
Total			15,778,195	4,872,500	7,323,406	

Summary of Status of Muzaffargarh TPS as of September 30, 2013

Description	Number	PIL Item No.	Amount (US\$)
Material Received at Site	18	1, 3, 4, 6, 7, 8, 9, 10, 12, 17, 19, 20, 21, 23, 28, 29, 31, 32	10,543,756
LC opened and material is awaited	6	2, 11, 22 (24*, 26), 30	1,714,650
PO issued and LC is awaited	1	18	639,000
Performance Bond received and PO is awaited	-	-	-
LOI Issued and Performance Bond is awaited	7	5, 13, 14, 15, 16, 25, 34	2,501,650
Tender/Re-Tender opened and in process	1	33	213,000
Tender/Re-Tender Awaited	1	27	166,140
Total PIL Line Items	34		15,778,195

ANNEX V: STATUS OF JTPS ACTIVITY AGREEMENT

Line Item No.	Unit No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted on the Basis of Old FARA (US\$)	Claims Submitted on the Basis of New PIL (US\$)	Present Status
1	1	Rehabilitation of Air Pre-heater Side A&B Rotor.	1,672,050		1,672,050	LC established on 18.10.2012. Partial material received at site and remaining will be expected to reach in October 2013. Claim for 100% Payment reimbursed.
2	1	Replacement of Final Super Heater Coils.	958,500		958,500	Material received and installed. Claim for 100% Payment reimbursed.
3	1	Complete replacement of Flue Gas Duct & Air Pre-heater Bottom hoppers and F.D Fan duct up to steam coil Air Heater.	720,000	720,000		Material received and installed. Claim for 100% Payment reimbursed.
4	1	Complete Rehabilitation of Cooling Towers.	500,000	450,000	50,000	Material received and installed. Claim for 100% Payment reimbursed.
5	1	Up gradation / replacement of Auto Burner control system and Data Acquisition System.	300,000	300,000		Material received and installed. Claim for 100% Payment reimbursed.
6	1	Hiring of services for major overhauling.	810,000			Tender is re-called fourth time but due to unsatisfactory reply from bidder the tender cancelled. Now the tender will be recalled again on 31.10.2013.
7	1	Soot Blower Spare Parts.	117,150		117,150	Material received at site. Claim for 100% Payment reimbursed.
8	1	Tube Bundles of Steam Converter, unit#1	250,000	225,000	25,000	Material received and installed. Claim for 100% Payment reimbursed.
9	1	Spares for Oil & HSD Burners & Igniters.	213,000		213,000	Material received at site. Claim for 100% Payment reimbursed.
10	1	Air Pre-heater Elements & Seal,	670,000	670,000		Material received and Installed. Claim for 100% Payment reimbursed.

Line Item No.	Unit No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted on the Basis of Old FARA (US\$)	Claims Submitted on the Basis of New PIL (US\$)	Present Status
11	1-4	Use of fuel oil additives to prevent slag formation and cooling water treatment chemicals to prevent scale buildup.	958,500			PO issued on 21.05.2013. Letter of credit established for fuel oil additive but not for the cooling water treatment chemicals. Claim of US\$ 958,500 received from JPCL but not forwarded to USAID/ENR as some equipment was not procured by JPCL. JPCL is informed to re-submit the claim after procuring the remaining equipment.
12	2-4	Replacement of H.P Heaters along with the valve and controllers including Rehabilitation of Instrument Control & Protection System.	3,306,825		3,306,825	Material received and installed. Claim for 100% Payment reimbursed.
13	2-4	Complete Rehabilitation of Cooling Towers.	718,875			LC established on 27.06.2012, but some items were not procured. PO of the remaining equipment's opened. JPCL will submit the claim after opening of letter of credit of the remaining procured equipment's.
14	2-4	Complete Rehabilitation of drain valves.	351,450		351,450	LC Established. Claim for 100% Payment reimbursed.
15	2-4	Rehabilitation of soot blowing system.	702,900		702,900	Material received at site. Claim for 100% Payment reimbursed.
16	2-4	Supply, installation and commissioning of complete economizers of three units	3,195,000		3,195,000	Material received and installed. Claim for 100% Payment reimbursed

Line Item No.	Unit No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted on the Basis of Old FARA (US\$)	Claims Submitted on the Basis of New PIL (US\$)	Present Status
17	2	<p>a. Modification / Rehabilitation of Electro Hydraulic and Mechanical Hydraulic Governing system.</p> <p>b. Replacement of Data Acquisition System (DAS-100), Auto Regulation System (MZ-III) and Temperature Scanners for Generator Winding Temperature, Super Heater/Re- Heater Temperature, Boiler Drum Metal Temperature, F.D, I.D Fan motor Temperature, Boiler Feed Pump Temperatures with latest Distributed Control System (DCS)</p> <p>c. Replacement of existing FSSS along with Furnace Flame Monitoring on one unit. replacement of Data Acquisition System (DAS-100), Auto Regulation System (MZ-III) and Temperature Scanners for Generator Winding Temperature, Super Heater/Re- Heater Temperature, Boiler Drum Metal Temperature, F.D, I.D Fan motor Temperature, Boiler Feed Pump Temperatures with latest Distributed Control System</p> <p>d. Replacement of Turbine Vibration system with Vibro-Control-4000 Schenk or equivalent</p>	1,171,500			Tender opened on 04.06.2013. Technical evaluation is completed and commercial evaluation is in process.
18	2	Procurement of Boiler Feed Pump Motor Complete.	117,150		117,150	Material received and installed. Claim for 100% Payment reimbursed
19	3	Replacement of Final Super Heater Coils.	958,500		958,500	Material received and installed. Claim for 100% Payment reimbursed.
20	3	Three-Way valve of Oil burner.	200,000	180,000	20,000	Material received and installed. Claim for 100% Payment reimbursed.

Line Item No.	Unit No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted on the Basis of Old FARA (US\$)	Claims Submitted on the Basis of New PIL (US\$)	Present Status
21	3	Spares for Overhauling of Turbine.	532,500		532,500	Material received at site. Claim for 100% Payment reimbursed.
22	4	I.D Fan Impellers.	479,250		479,250	Material received and installed. Claim for 100% Payment reimbursed.
23	1-4	Off-line Efficiency Monitoring system and training.	426,000			PO issued. Foreign exchange allocation is awaited.
		Total	19,329,150	2,545,000	12,699,275	

Claims Processed and Submitted to USAID = US\$ 15,244,275

Table 9: Summary of Status of Jamshoro TPS as of September 30, 2013

Description	Number	PIL Item No.	Amount (US\$)
Material Received at Site	17	2, 3, 4, 5, 7, 8, 9, 10, 12, 14, 15, 16, 18, 19, 20, 21, 22	13,572,225
LC opened and material is awaited	1	1	1,672,050
PO issued and LC is awaited	3	11, 13, 23	2,103,375
Performance Bond received and PO is awaited	-	-	-
LOI Issued and Performance Bond is awaited	-	-	-
Tender/Re-Tender opened and in process	1	17	1,171,500
Tender/Re-Tender Awaited	1	6	810,000
Total PIL Line Items	23		19,329,150

ANNEX VI: STATUS OF GTPS ACTIVITY AGREEMENT

Line Item No.	Work Item Description	Agreement Amount (US\$)	Claims Submitted (US\$)	Present Status
1.	Purchasing the supply of Spares / Equipment for reliability assurance (up-rating and upgrading) including MK VIe Control System for GT-7&8 and ST-05	8,889,555	8,889,555	LC opened on 28.09.2012. Claim for 100% Payment reimbursed by USAID.
2.	Replacement of existing DCS with new Mk VIe Single Platform DCS for ST-5, GTs 7 & 8	692,250	692,250	LC opened on 28.09.2012. Claim for 100% Payment reimbursed by USAID.
3.	Purchasing the Supply of 1 & 2 stage buckets and nozzles for GT-7&8	3,621,000	3,621,000	LC opened on 28.09.2012. Claim for 100% Payment reimbursed by USAID.
4.	Rehabilitation of HRSGs, Replacement of Modified Bypass Dampers, all existing expansion joints of HRSGs and Replacement of Economizer tubes and bends of HRSG for GTs 7 & 8	1,571,940		LC of Two PO have been opened and one tender is recalled
5.	Rehabilitation / Replacement of Evaporative Coolers and Cooling Media of GT-7&8	213,000		One tender under evaluation and other is recalled due to no bid participation
6.	Inspection, testing and repair of Generators of GT-7, GT-8, ST-5 along with supply of essential spares and testing kits	2,212,005	2,212,005	LC opened on 28.09.2012. Claim for 100% Payment reimbursed by USAID.
7.	Purchasing of Control Cables, Monitoring Instruments, Motorized and pneumatic Actuators and Turbine Supervisory Instruments / Equipment for ST-5	97,980	97,980	LC opened on 28.09.2012. Claim for 100% Payment reimbursed by USAID.
8.	Application of Service Charges for complete up-rate and upgrade package of GTs and replacement of controls etc. for block consisting of GT-7&8 and ST-5 on turnkey basis	1,826,000	1,826,000	LC opened on June 20, 2013. Claim for 100% Payment reimbursed by USAID.
Total		19,123,730	17,338,790	

Claims Processed and Submitted to USAID = US\$ 17,338,790