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USAID ENERGY POLICY PROGRAM

MONTHLY REPORT - II AUGUST - SEPTEMBER 2010

REHABILITATION OF TARBELA HYDROPOWER PLANT

USAID: TARBELA FIXED AMOUNT REIMBURSEMENT AGREEMENT
NO. 391-TDR-FARA-002-00

September 2010

This program is made possible by the support of the American people through the United States Agency for International Development (USAID)

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USAID: TARBELA FIXED AMOUNT REIMBURSEMENT AGREEMENT
NO. 391-TDR-FARA-002-00

Submitted on: September 30, 2010

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

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DISCLAIMER

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1. SUMMARY

The report presents progress on monitoring and support for Tarbela Rehabilitation program for the months of Aug-Sept 2010. Several meetings were arranged between AEAI, WAPDA authorities, Central Control Cell (CCC) and Tarbela Staff to discuss the progress and support required to effectively monitor and implement the Tarbela Rehabilitation Program. Also discussed was the implementation schedule (annex-A) prepared jointly by WAPDA, Tarbela Staff and AEAI. Overall there are no delays in the schedule. The first Winding is planned to be shipped from the Vendor's site on 31 Oct 2010. Shop Testing and Inspection was carried out in Japan by a team of WAPDA Engineers last month. Some critical issues that could possibly delay implementation are also highlighted in the report. The main concern is the shutdown of Tarbela units during high water and demand season for installation/commissioning. Further discussions are underway with WAPDA authorities and Tarbela staff to expedite progress in lean water seasons keeping into account availability of technical resources and shipment of equipment on time.

2. KEY MEETINGS

Key meetings held between WAPDA authorities, Tarbela Staff and AEAI during the month of Aug-Sept 2010 are listed below:

- I. Meeting with Tarbela Chief Engineer and Resident Engineers at Tarbela Power Station on 30th Sept 2010.
- II. Meeting with GM (Hydel) and Chief Engineer Tarbela at WAPDA House Lahore on 10th Aug 2010

3. PROGRESS ON MONITORING AND SUPPORT

Lot no.	Description of Work	COMPLETION DATES				Remarks
		FARA	Tarbela Schedule	Last Month	Current Month	
1	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#4	May 31, 2011	May 31, 2011		Completion is expected as per FARA schedule. May 31, 2011	Manufacturing of Winding is almost complete. Shop testing was carried out at vendor's site from Sept 25-30 th . WAPDA engineers visited Japan to inspect/test the winding and getting training. Shipment from vendor is planned on Oct 31 st 2010.
2	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#1	Dec 31, 2011	Sept 30, 2011		Completion is expected ahead of FARA schedule. Sept 30, 2011	Manufacturing is in progress and shipment from vendor is planned on Nov 21 st 2010.
3	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#3	Sept 30, 2011	Dec 31, 2011		Completion is expected as per FARA schedule. Dec 31, 2011	Shipment from vendor is planned on Jan 21 st 2011.
4	Upgrading of the SCADA System, Units 1-14	Dec 31, 2011	Dec 31, 2011		Completion is expected as per FARA schedule. Dec 31, 2011	Bid evaluation is complete. CCC vetting is currently under progress.
5	Spare Seals & Guides for Relief and Bypass Valves on Turbine Side, Units 1-10	Oct 01, 2011	Dec 15, 2011		Completion is planned by Dec 15, 2011	Tender opening is complete and bid evaluation is under progress.
6	Replacement of Electromechanical Governors by Digital Ones, Unit 1-10	Dec 15, 2011	Dec 15, 2011		Completion is expected as per FARA schedule. Dec 15, 2011	Tender opening is complete and bid evaluation is under progress.
7	Replacement of Worn out Station Drainage and Dewatering Pumps, Units 1-10	Dec 15, 2011	Dec 15, 2011		Completion is expected as per FARA schedule. Dec 15, 2011	On recommendation of evaluation committee the case was re-tendered and evaluation is in progress.
8	Training	Dec 15, 2011	Dec 15, 2011		Completion is expected as per FARA schedule. Dec 15, 2011	Tarbela / WAPDA Staff are currently designing the training program and planning the procurement.

4. CRITICAL ISSUES AND USAID/AEAI SUPPORT REQUIRED

Following are list of critical issues highlighted during meetings with WAPDA authorities: GM (Hydel) and Chief Engineer and Resident Engineers at Tarbela Power Station.

Note: On request of AEAI, GM (Hydel) and Chief Engineer Tarbela have dedicated a team constituting three officers who will closely monitor and implement the Tarbela Rehabilitation program, and will promptly inform AEAI/USAID in case of any deviations. An official letter to this effect is attached in Annex D.

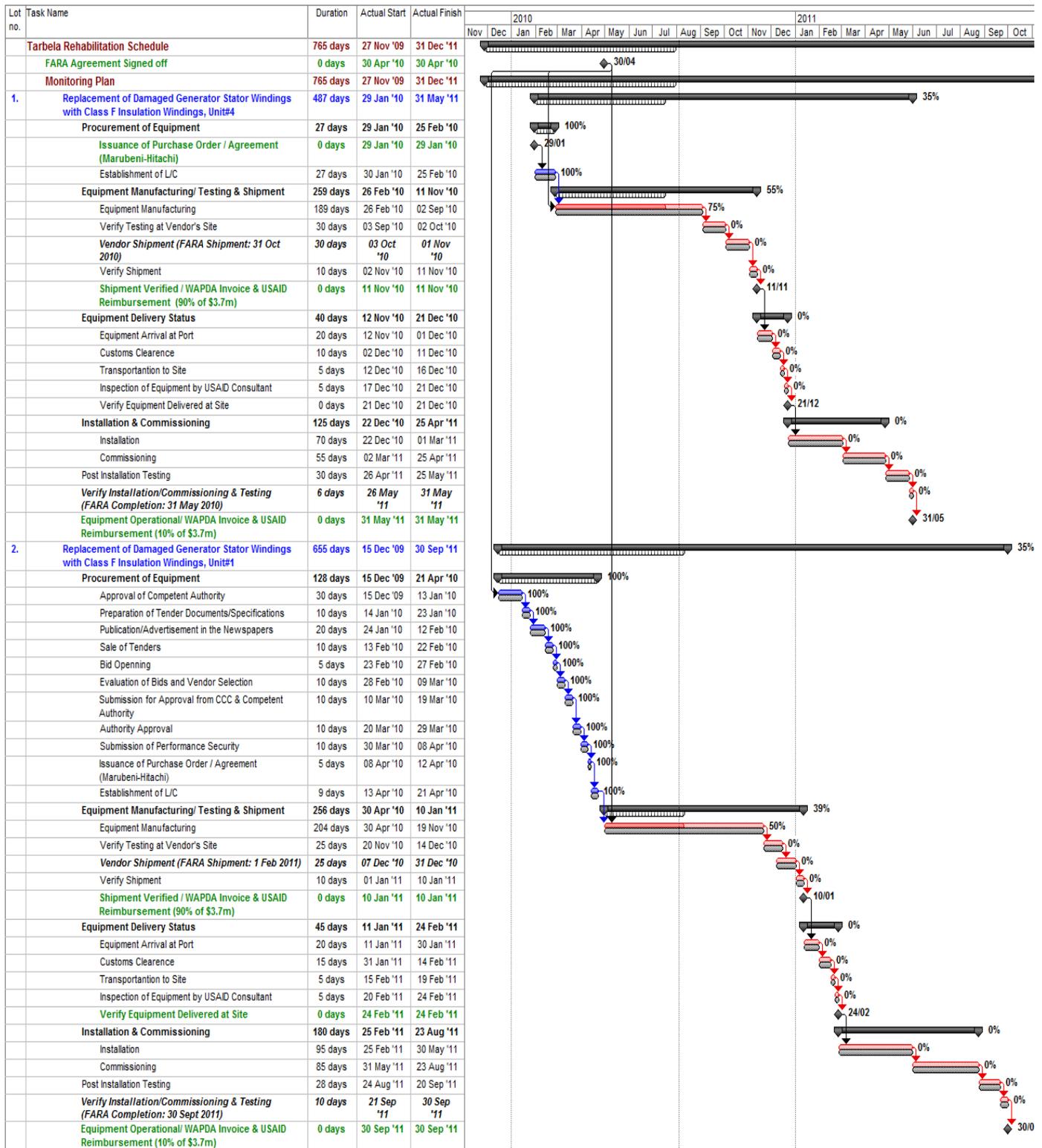
Item no.	Critical Issues	Status/Resolution	USAID/AEAI Support
1	WAPDA needs to acquire a Clearance Certificate from Federal Board of Revenue (FBR) for exemption of taxes and customs duties on procurement of all equipment under FARA.	AEAI discussed the matter with WAPDA authorities, Member (Power), GM (Hydel) and Chief Engineer Tarbela. The Chief Engineer made a formal request to the office of GM Finance (Power) who subsequently sent a letter to the Federal Board of Revenue (FBR). A copy of the letter is attached as reference in Annex-D.	AEAI provided WAPDA a copy of the Assistance Agreement and FARA, which will be used as basis of exemption from FBR. AEAI is actively following-up the issue in case any support is required to expedite the process.
2	Approval required from Ministry of Interior for foreign experts' visiting Tarbela Power Station, who would later be involved in installation and commissioning.	WAPDA requested the Ministry of Interior on 29 th Sept 2010 to permit two foreign experts to visit Tarbela Power Station. However, no approval has been granted to date. Having experts' visits at Tarbela Power Station is important as they will be involved during installation/commissioning and also earlier for understanding the system design and interfaces.	AEAI discussed the matter with WAPDA authorities, Member (Power), GM (Hydel) and Chief Engineer Tarbela. GM (Hydel) is looking into the matter and will inform AEAI/USAID in case any support is required.

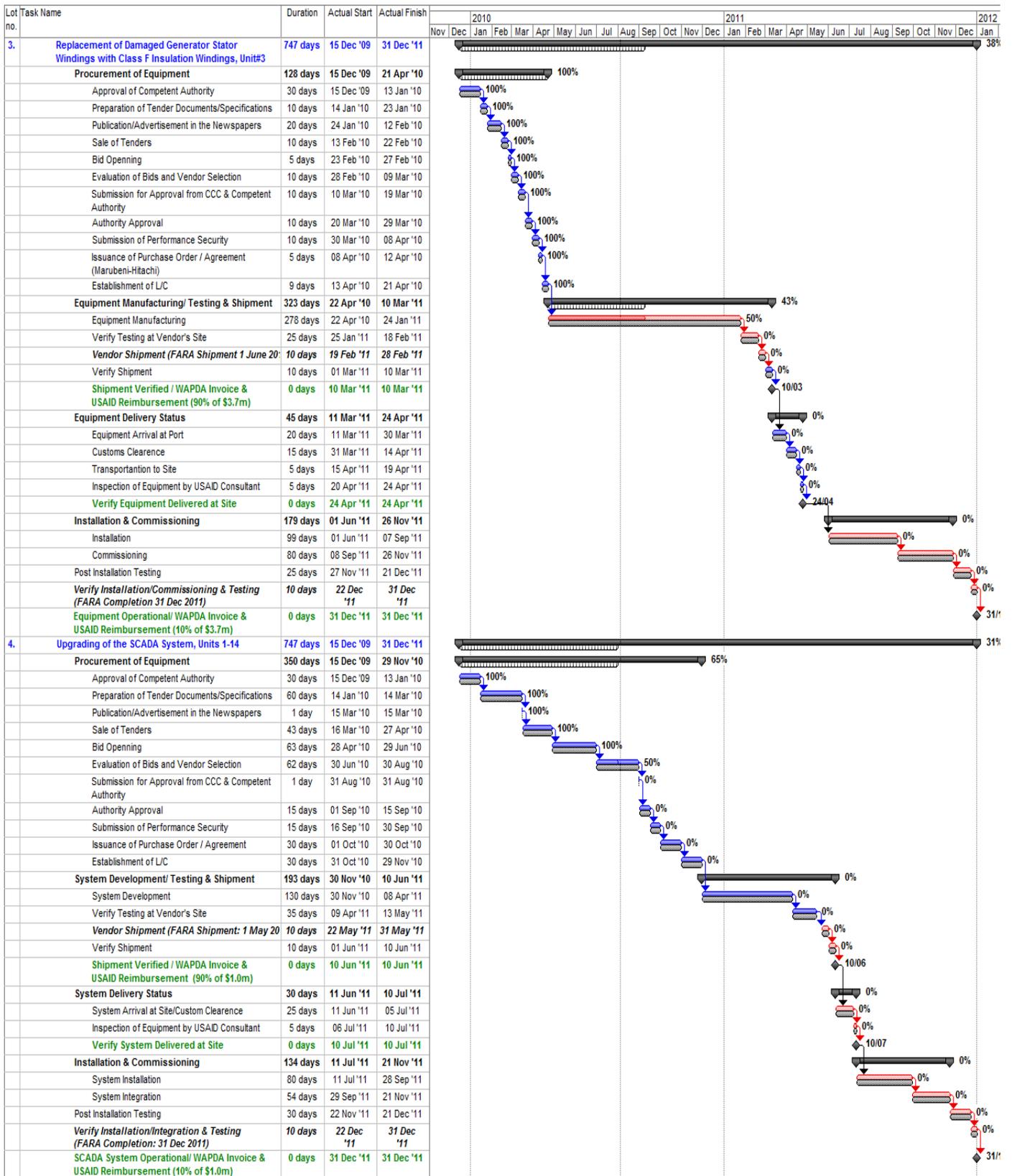
3	Shutdown of Tarbela Units for installation of equipment under FARA. This is the most critical issue which could possibly cause delays.	Tarbela has an annual scheduled unit shutdown during six low water months (Nov till Apr) for annual maintenance of equipment. This would be the ideal time to carry out R&M work under FARA since it would be difficult to shutdown Tarbela units during high water season when the demand is also at its peak (May – Oct). However, shutdown would be required in high water season to meet the FARA timelines. WAPDA/Tarbela has already made a formal request to National Power Control Centre (NPCC) along with a shutdown plan, which is attached in Annex D.	AEAI is providing support to WAPDA / Tarbela Staff in order to optimize the schedule making best use of time and resources for meeting the FARA timelines.
4	In order to expedite the FARA schedule, WAPDA/Tarbela Power Station would require additional staff during the replacement of windings for Units 1, 3 and 4.	Tarbela Chief Engineer has already made a formal request on Aug 11, 2010 to the offices of Chief Engineers’ Mangla, Ghazi Barotha and Warsak hydro-power stations.	On request of AEA/USAID, WAPDA authorities have agreed to expedite the FARA schedule by adding temporary staff from Mangla, Ghazi Barotha and Warask hydro-power stations.

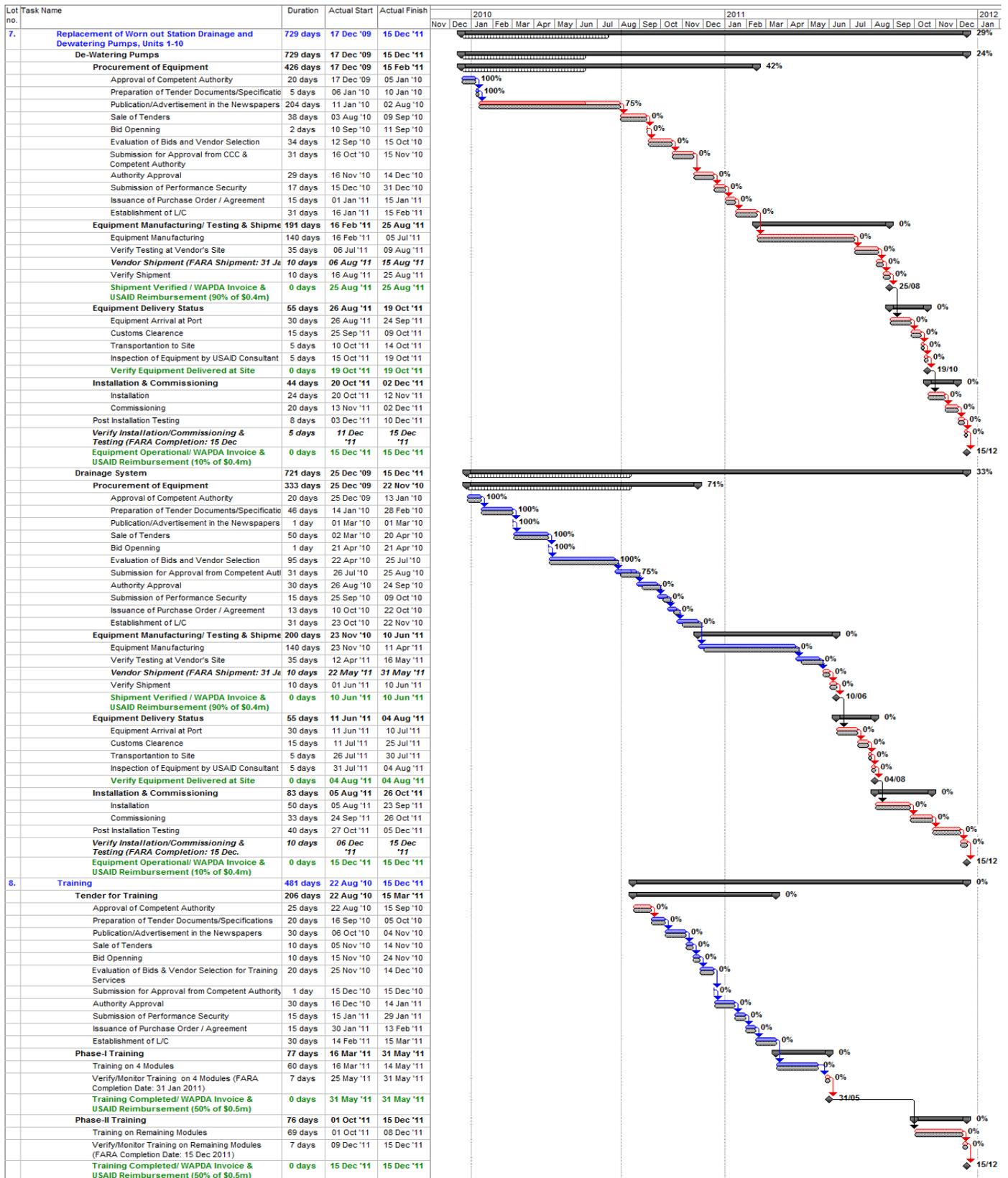
5. ACTION ITEMS FOR NEXT MONTH

- I. Follow up on status of Customs Clearance Certificate from FBR.
- II. Provide support to WAPDA / Tarbela in acquiring permit from Ministry of Interior for foreign experts’ visits, in case a formal request is made from WAPDA Authorities.
- III. Check with vendor (Marubeni-Hitachi) regarding the status of windings under manufacturing and shipment schedules.
- IV. Plan for shop testing of Unit-3 winding after discussing with Marubeni-Hitachi and WAPDA authorities.
- V. Request WAPDA to submit a formal report on the Shop Testing/Inspection of Winding for Unit 4.

ANNEX – A: Schedule







ANNEX – B: Progress Report Submitted by Tarbela/WAPDA

Progress Report of Works under US AID program FARA

An agreement was signed on 30.04.2010 between The Islamic Republic of Pakistan and The United States of America for repair and Rehabilitation of The Tarbela Power Station. The agreement has been executed by United States Agency for International Development (USAID) on behalf of USA and Water & Power Development Authority (WAPDA) on behalf of Govt. of Pakistan. The agreement is named as FARA (Fixed Amount Reimbursement Agreement).

Under this agreement, USAID is making available upto US \$ 16.5 Million for repair & rehabilitation of Tarbela Power Station. The Terms & Conditions have been framed in the FAR Agreement No. 391-TDR-FARA-002-00 dated 30.04.2010.

The following rehabilitation works were incorporated under this agreement:

S. No	Description of Works	Estimated Amount US\$ Million
1	Replacement of Old Generator Stator Winding of Unit # 4, 3 & 1 with Class-F insulation Winding	11.100
2	Up-Gradation of SCADA System	1.000
3	Spare Parts & Guides for Relief Valves By-Pass; Valves Units 1~4, Units 5~10	0.500
4	Up-Gradation of Electro Mechanical Governors for Units 1 ~ 10	3.000
5	Up-Gradation of Station Drainage & Unwatering Systems for Units 1~ 10	0.400
6	Training	0.500
Total:		16.5

The following is the present status of various above activities mentioned above. The report includes the stage at which the activities are and the recommendation of the committee for steps to be taken to ensure the timely completion of the works as per dates agreed with USAID i.e. 31st December 2011.

ACTIVITY #1

Replacement of damaged stator winding of Unit #4 with Class F Insulation winding

- Dates as per FARA 1-11-2010 to 31-05-2011
- Contract agreement signed
- F.O.B delivery of the consignment at port 31-10-2010
- Schedule of all activities prepared (Annex. A)
- Inspection of winding 27 to 30 Sep 2010
- Training of officers Sep-Oct 2010

Immediate action

- Arrangement of shut down as per schedule
Action By: - Chief Engineer Power/Resident Engineer (E)
- Arrangement of additional staff and approval of Authority. In this regards Chief Engineer and Resident Engineer Mechanical visited Locomotive Factory Risalpur but final arrangement with approval needs to be done.
Action By: - Chief Engineer Power/Resident Engineer (E)

ACTIVITY #2

Replacement of old generator stator winding of Unit #1 with Class F Insulation winding

- Dates as per FARA 1-03-2011 to 31-09-2011
- Contract agreement signed
- F.O.B delivery of the consignment at port 21-11-2010
- Schedule of all activities prepared (Annex. E)

Immediate action

- Arrangement of shut down as per schedule. The approval of competent Authority will be required as the shut down continues during peak season of 2011 which not only means generation loss but also due to outage of two units will cause overloading of 500/220KV Auto transformer.
Action By: - Chief Engineer Power/Resident Engineer (E)
- Arrangement of additional staff and approval of Authority. In this regards Chief Engineer and Resident Engineer Mechanical visited Locomotive Factory Risalpur but final arrangement, with approval needs to be done.

ACTIVITY#3

Replacement of old generator stator winding of Unit #3 with Class F Insulation winding

- Dates as per FARA 1-06-2011 to 31-12-2011
- Contract agreement signed
- F.O.B delivery of the consignment at port 21-01-2011
- Schedule of all activities prepared (Annex. C)

Immediate action

- Arrangement of shut down as per schedule. The approval of competent Authority will be required as the shut down continues during peak season of 2011 which will not only mean generation loss but also due to outage of two units will cause overloading of 500/220KV Auto transformer.
Action By: - Chief Engineer Power/Resident Engineer (E)

- Arrangement of additional staff and approval of Authority. In this regards Chief Engineer and Resident Engineer Mechanical visited Locomotive Factory Raisalpur but final arrangement with approval needs to be done.

ACTIVITY #4

Up-Gradation of SCADA System

- Tender opening completed. Evaluation in progress.
- Presentation of SIEMENS was done on 30-08-2010
- Presentation of ABB awaited. As per ABB the presentation is to be by a foreigner.
- Tentative schedule attached (Annex.D)

Immediate action

- Evaluation to be completed before end of September 2010.
- Successful bidder must ensure completion of delivery/installation by 31-12-2011.

Action By: - Evaluation Committee

ACTIVITY#5

Spare Parts & Guides for Relief Valves By-Pass Valves Units 1~4, Units 5~10

- Evaluation of bids completed by evaluation committee.
- As per requirement of FARA/USAID the evaluation report submitted to CCC for vetting.
- Schedule of activities completed (Annex.E).

ACTIVITY#6

Up-Gradation of Electro Mechanical Governors for Units 1 ~ 10

- Tender opening completed. Evaluation in progress.
- Schedule prepared (Annex.F)

Immediate action

- Date for completion of evaluation set at 30th September 2010.

Action By: - Evaluation Committee (RE-P, RE-E, RE-M)

ACTIVITY#7

Up-Gradation of Station Drainage & Unwatering Systems for Units 1~ 10

- On recommendation of evaluation committee the case has been re-tendered, bids opening scheduled for on 14-9-2010.
- Schedule prepared (Annex.G).

ACTIVITY#8

Training

- As per FARA certain areas of training have been suggested. The areas of training, institutes (in-country and in regional country) and the trainees designated need to be finalized.

Immediate action

- Selection of training institutes and the areas of training to be finalized.

Action By: - RE-P, RE-E, RE-M

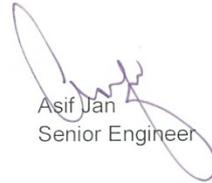
The report is submitted for your kind information and further advice to all concerned, please. The scheduled prepared are as result of feedbacks from concerned RE's but their final consent be obtained



Muhammed Afan
Senior Engineer



Gharib Nawaz
Senior Engineer



Asif Jan
Senior Engineer

Chief Engineer (Power) TD

Minutes of Meeting between WAPDA/Tarbela Staff and Energy Policy Project (EPP) Team held at WAPDA House Lahore on 10th August 2010

The purpose of the meeting was to discuss options for expediting the progress on Tarbela Rehabilitation program and also to identify areas in which USAID/EPP could possibly support to accelerate the Tarbela Rehabilitation program.

Participants from Tarbela:

- | | |
|---------------------|------------------------|
| a) Mr. HamdUllah | GM (Hydel) |
| b) Mr. Ahmed Waheed | Chief Engineer Tarbela |

Participants from USAID Energy Policy Project:

- | | |
|-------------------|---------------------------|
| Mr. Salim Paracha | Senior Energy Expert |
| Mr. Talha Javed | Technology Policy Advisor |

Summary of Discussions:

1. The schedule for Tarbela Rehabilaitaion program was discussed in detail in order to expedite implementation, making best use of time and resources for meeting the FARA timelines. *WAPDA agreed to fast-track the implementation in the coming lean water season (Nov-Apr)* by adding more technical staff at Tarbela power plant. **EPP team suggested that instead of targeting replacement of Unit-4 winding, WAPDA should plan for Unit-1 and Unit-3 as well in parallel, so we can quickly bring more power to the national grid. As a next step Chief Engineer Tarbela will revise the existing schedule jointly with EPP team and Tarbela staff.** Once finalized, WAPDA will make a formal request to National Power Control Center (NPCC) for shutdown of the requisite units for dismantling/installation of equipment under FARA.
2. WAPDA needs to acquire *Clearance Certificate from Federal Board of Revenue (FBR)* for exemption of taxes and customs duties on procurement of all equipment under FARA. For this purpose, EPP provided WAPDA/Tarbela with requisite copies of Tarbela FARA and Implementation Letter. **The GM (Hydel) has requested a copy of the ‘Assistance Agreement’ referred in Tarbela Implementation Letter, based on which the GM will take up the matter with FBR.**
3. As for *permission required from Ministry of Interior (Mol) for foreign experts visiting Tarbela power plant*, Chief Engineer Tarbela will write to Mol well in advance requesting permits for experts’ visits who would be involved in installation and commissioning. **The GM (Hydel) confirmed that WAPDA will take up this matter and will inform USAID/EPP in case any support is required.**
4. EPP team was advised that the Office of *Chief Engineer Tarbela has already written to Marubeni-Hitachi (Japan) to find out the exact dates for shop testing and testing procedures in the field.* The Chief Engineer Tarbela also confirmed that manufacturing for Unit-4 winding is on time.

5. *For proactive monitoring, control and reporting of Tarbela Rehabilitation program, it was recommended by EPP team that WAPDA should form a dedicated team at Tarbela power plant. The GM (Hydel) and Chief Engineer Tarbela agreed to the proposal as it is also required under FARA.*

Critical Items:

1. Permission from the National Power Control Center (NPCC) for shutdown of requisite Tarbela Units during high water season (May-Oct) for dismantling and commissioning of winding. **[WAPDA/Tarbela will revise the schedule jointly with EPP by next week. This will help identifying the Shutdown plan based on which WAPDA will make a formal request to NPCC]**
2. Get schedule of shop testing from Marubeni (Japan) and also the testing procedures that will be carried out in the field. **[Chief Engineer Tarbela is working on this]**
3. WAPDA to request FBR for acquiring Clearance Certificate **[GM (Hydel) will take up this matter with FBR as soon as he receives the Assistance Agreement from USAID/EPP].**

Action Items:

1. USAID/EP will provide copy of the 'Assistance Agreement' to WAPDA referred in Tarbela Implementation Letter. On basis of the agreement, GM (Hydel) will take up the matter with FBR.
2. WAPDA/Tarbela will revise the existing schedule targeting for commissioning the windings in parallel and utilizing best use of coming lean period (Nov-Apr). The plan will be jointly discussed between WAPDA/Tarbela and EPP team next week.
3. Chief Engineer Tarbela will write to MoI well in advance requesting permits for experts' visits who would be involved in installation and commissioning.
4. WAPDA/Tarbela will advise EPP regarding the dates for Shop Testing of Class-F Insulation Winding for Unit 4 at the manufacturer's site. Also required are the detailed testing procedures from the manufacturer.
5. Chief Engineer Tarbela will share with EPP team the Training Schedule for Tarbela Staff as part of FARA. Also, the Chief Engineer will share copies of all contacts between WAPDA and equipment suppliers related to procurements of equipment under Tarbela FARA.
6. WAPDA will start preparing the quarterly report on progress of Tarbela Rehabilitation program, which is to be submitted to USAID/EPP as per FARA.
7. Chief Engineer Tarbela will form a dedicated team at Tarbela power plant and inform EPP team about group involved in Tarbela Rehabilitation program.

ANNEX – D: WAPDA’s Official Correspondence



WATER & POWER DEVELOPMENT AUTHORITY



9202522/2713
Fax: 9202005

General Manager Finance (P)
713-Wapda House, Lahore.

No./Taxes/FARA/185/Vol-I/ 12/11-14

Member (Power)
WAPDA
No. 446
Date 9.05.10

Dated: 8/09/2010.

The Joint Secretary (Power)
Ministry of Water & Power
Islamabad.

Sub: RELIEF FROM CUSTOM DUTY ON PAYMENTS FROM USAID REIMBURSEMENT

1. This is with regard to soliciting a favourable decision from FBR on the issue of Custom Duty on the payments to be reimbursed by USAID to WAPDA/PEPCO under Fixed Amount Reimbursement Agreement (FARA).

2. FARA financing is a form of project assistance under which the amount of reimbursement is set in advance, based upon cost estimates approved by USAID. A fixed Amount Reimbursement Agreement (FARA) is a USAID assistance mechanism whereby a host government is reimbursed by USAID for the successful completion of specified activities in accordance with previously agreed upon specifications or standards. The amount of reimbursement is fixed in advance based upon reasonable cost estimates reviewed and approved by USAID.

3. USAID has successfully employed the FARA mechanism in an array of projects worldwide. They are most appropriate for low cost, short-term projects (generally two years or less), or projects which can be made divisible into segments small enough to enable the completion of subprojects or quantified elements of work within the project.

4. The criteria amongst others include the following:-

Host Country Taxes

"The contract must contain a clause that applies the exemption of USAID funds from identifiable taxes of the host country and its political sub-division."

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Handwritten notes: 2/9/10

Handwritten notes: OEH

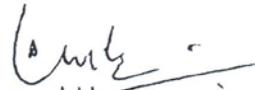
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TTR
20/9
MHL 16/9

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5. All the criteria as set under FARA is reported to be met at WAPDA's level except the condition of exemption of tax and duty reproduced above. Initiation and accomplishment of projects especially relating to Water and Electricity are dire need of the time. WAPDA is leaving no stone unturned to manage and overcome the scarcity in both the fields. But its limitations, amongst others, include lack of finance. Under this situation a lot of benefit may be availed from FARA which necessitates to abide by the pre-requisites as laid down therein.

6. In the light of above, the proposal may be forwarded to Joint Secretary (Paris Club) Economic Affairs Division Islamabad with the request to send the case to FBR for Custom Duty exemption on the payment for the projects covered under FARA in the interest of nation/country. Copy of FARA is attached.

7. An early action at your end will be highly appreciated.


Anwar-ul-Haq
General Manager Finance (Power)

cc to:

- Mrs. Anjum Assad Amin, Joint Secretary (Paris Club) Economic Affairs Division, Islamabad, for information.
- Secretary Customs (Exemptions) FBR Islamabad.
- ✓ P.A. to Member (Power) WAPDA House, Lahore.



PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY

Office of the
Chief Engineer (Power)
Wapda Tarbela

Tel: (0938) 272230-32
Fax (0938) 272706
E-Mail: cetarbelapower@gmail.com

Ref: No.CE(P)/PA/FARA/1326-
Dated 29/09/2010.

General Manager (System Operation),
Sector H/8-1, NPCC,
Islamabad

Subject:- **WORK SCHEDULE UNDER USAID PROGRAMME
THROUGH FARA AGREEMENT**

1. It is intimated that repair and rehabilitation of Tarbela Power Station is to be carried out under USAID programme through FARA Agreement. As per FARA Agreement, all the rehabilitation works are required/scheduled to be completed by 31st December 2011. According to the schedule, the most critical activity among these, is the over lapping of dates/period of replacement of stator winding and shutdown of units 1, 3 & 4 in the high water season. The schedule as per FARA is as under:-

Unit No.4	01.11.2010 to 31.05.2011
Unit No.1	01.03.2011 to 30.09.2011
Unit No.3	01.06.2011 to 31.12.2011

2. In addition to above, Annual Maintenance of units 8 to 14 and repair of air release pipe of penstock of unit-13 involving complete shutdown of Tunnel-3 are also required to be carried out during the coming lean water season.
3. For all the above works mentioned in Para-1&2 above, the following is the proposal of tentative schedule of shutdown of the various units.

S.NO.	UNIT	TENTATIVE/PROPOSED DATES	REMARKS
1.	04	01.11.2010 to 31.05.2011	Winding replacement
2.	01	01.03.2011 to 30.09.2011	-do-
3.	03	01.06.2011 to 31.12.2011	-do-
4.	Tunnel-3 (All 11-14 units)	01.01.2011 to 31.01.2011	Penstock repair + Annual Maintenance of unit No.12
5.	08	11.10.2010 to 09.11.2010	Annual Maintenance
6.	09	10.12.2010 to 08.01.2011	-do-
7.	10	01.02.2011 to 02.03.2011	-do-
8.	11	10.11.2010 to 09.12.2010	-do-
9.	12	12.01.2011 to 10.02.2011	-do-
10.	13	02.04.2011 to 01.05.2011	-do-
11.	14	03.03.2011 to 01.04.2011	-do-

4. It is therefore requested that approval for the above tentative schedule of shutdowns may kindly be conveyed at your earlier, please.


CHIEF ENGINEER (POWER)
WAPDA TARBELA DAM

c.c. to:-

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Member (Power) Wapda House Lahore. 2. G.M (Hydel) Operation Wapda House Lahore. | <p>Their good offices are requested for getting approval of the said shutdown, particularly units 4,1&3 and Tunnel-3.</p> |
| <ol style="list-style-type: none"> 3. GM & PD (TDP) Tarbela. 4. Chief Engineer (Civil) TDP Tarbela for necessary action with reference to repair of air release pipe of penstock of unit No.13. | |

PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY



OFFICE OF THE CHIEF ENGINEER (POWER)
HYDEL POWER STATION, TARBELA DAM
TEHSIL & DISTRICT : SWABI, N.W.F.P. PAKISTAN
POST CODE : 23470

PHONE 0092 938 272230-32
0092 938 273286
FAX 0092 938 272706

NO. OP/ITR/10(964)/ 770-74
DATED: 14/09/2010

FAX MESSAGE

M/s Marubeni Corporation,
11-A, Old F.C.C. Ferozpur Road,
Lahore
Fax No. 042-35775128

Subject: **CONTRACTS C-588 & C-593**
NOMINATING OF INSPECTORS/ENGINEERS

The following Officers/Engineers will be visiting Japan in connection with inspection and training as per your provided schedule from 25th of September 2010 :

Inspection & testing

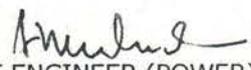
1. Muhammad Zafar Khan, R.E.(P)
2. Mr. Gharib Nawaz, Sr, Engineer (P&IE)

Training

1. Mr. Zafar Ali, Sr. Engineer Electrical.
2. Mr. Rehmat Shah, Sr. Engineer Electrical.
3. Mr. Imtiaz Ahmed, Jr. Engineer Electrical.

The detail of the passports will be provided on receipt of the same from Peshawar Passport office.

You are required to please make arrangements as per provided schedule please.


CHIEF ENGINEER (POWER)
WAPDA – TARBELA DAM

C.C.

- GM/PD TD/GBHP, Tarbela Dam.
- G. M. (Hydel) Wapda, 186-Wapda House, Lahore.
- P.A. to Member (Power) Wapda, Wapda House, Lahore.
- Mr. Talha Javed, US AID Energy Policy Project, House No. 4, Street No. 88, G-6/3, F-11/1, Islamabad.

Letters-2 (61)

Attn: TALHA JAVED

1/8



PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY

Office of the
Chief Engineer (Power)
Wapda Tarbela

Tel: (0938) 272230-32
Fax (0938) 272706
E-Mail: ce@power.wapda.gov.pk

Ref: No.CE(P)/PA/FARA/1310-15
Dated 25/08/2010.

OFFICE ORDER

As agreed in the meeting held with USAID in the office of G.M (Hydel) Operation, Lahore on 10.8.2010, a dedicated team of the following officers is constituted with the objective to properly monitor, expedite and control rehabilitation work of Tarbela Power Station under USAID programme through FARA Agreement.

- | | |
|-----------------------|-----------------|
| → 1. Mr. Asif Jan | Senior Engineer |
| 2. Mr. Gharib Nawaz | -do- |
| 3. Mr. Muhammad Irfan | -do- |

The team will follow-up and coordinate with various concerned agencies and offices to ensure that all activities of each work of rehabilitation are carried out within the scheduled dates. The team will also report the progress of works regularly on quarterly basis.


CHIEF ENGINEER (POWER)
WAPDA TARBELA DAM

c.c. to:

1. GM & PD (TDP) Tarbela.
2. G.M (Hydel) Operation, Wapda House, Lahore.
3. Chief Engineer (Coordination) O/O Member (Power) Wapda House Lahore.
4. Mr. Talha Javed, Technology Policy Advisor, USAID Energy Policy Project, House No.4 Street No.88, G-6/3, Islamabad.
5. All Resident Engineers Power Station Tarbela.
6. Officers Concerned.



PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY

Office of the
Chief Engineer (Power)
Wapda Tarbela

Tel: (0938) 272230-32

Fax (0938) 272706

E-Mail: ce@wppower@gmail.com

Ref: No.CE(P)/PA/15/1287-92
Dated 11/08/2010.

1. Chief Engineer (Power) WAPDA, Ghazi Barotha
2. Chief Engineer WAPDA, Mangla
3. Chief Engineer Hydel North WAPDA, Warsak

Subject:- **DEPUTATION OF STAFF**

It is intimated that repair and rehabilitation of Tarbela Power Station under USAID scheme through FARA Agreement has been planned to be executed during the year 2010 and 2011. The repair and rehabilitation consists of replacement and up-gradation of various parts of the units.

According to the agreement, all the activities (repair & up-gradation of various parts/equipment) are scheduled to be completed by **31.12.2011**. The most critical activity among these is the overlapping of dates/period of replacement of stator winding of units 1,3 & 4 as under:-

Activity	From	To
Replacement of existing class-B Stator Winding of unit-4 with class-F winding	01.11.2010	31.05.2011
Replacement of existing class-B Stator Winding of unit-1 with class-F winding	01.03.2011	30.09.2011
Replacement of existing class-B Stator Winding of unit-3 with class-F winding	01.06.2011	31.12.2011

Our existing strength is hardly sufficient to cater for replacement of winding of one unit. In order to be able to meet the above target dates for units 1&3, and annual maintenance of units 1,8,9,10 & 11-14 which has become overdue and other routine preventive and emergent maintenance of the units/equipment, additional staff in the following categories is to be arranged.

- FM/AFM (Elect)	=	03 Nos.
- Electricians/Attendants	=	20 Nos.
- ASAs	=	20 Nos.
- Cleaners	=	06 Nos.

Total 49 Nos.

It is therefore requested that the number of staff in the above categories for the period **01.03.2011 to 31.12.2011** that can be agreed and deputed to Tarbela Power Station, may kindly be intimated at your earliest please.


CHIEF ENGINEER (POWER)
WAPDA TARBELA DAM

c.c to:-

1. General Manager (Hydel) WAPDA, Wapda House Lahore.
2. GM & PD (TDP) Tarbela.
3. P.A to Member (Power) WAPDA, Wapda House, Lahore.

PAKISTAN
WATER AND POWER DEVELOPMENT AUTHORITY



OFFICE OF THE CHIEF ENGINEER (POWER)
HYDEL POWER STATION, TARBELA DAM
TEHSIL & DISTRICT : SWABI, N.W.F.P., PAKISTAN
POST CODE : 23470

PHONE 0092 938 272230-32
0092 938 273286
FAX 0092 938 272706

NO. OP/ITR/10(964)/453-57

DATED: 29 / 07 / 2010

FAX MESSAGE

The General Manager (Hydel) Wapda,
186-Wapda House,
Lahore:

Subject: **FIXED AMOUNT REIMBURSEMENT AGREEMENT BETWEEN USA AND ISLAMIC REPUBLIC OF PAKISTAN FOR REPAIR AND REHABILITATION OF TARBELA HYDEL POWER STATION**

Ref: This office letter No. OP/ITR/10(964)/632-36 dated 14-07-2010 addressed to C.R.R. Karachi with a copy to your office.

Enclosed please find a copy of the subject re-imbusement agreement signed by **Chairman WAPDA** and **USAID Mission to Pakistan**. The payments of items in Table A-1 of the **FARA** will be reimbursed by **USAID Mission** for works completed in compliance with the conditions and specification outlined in the document. It is worthwhile to mention here that under **Article IX, Miscellaneous, Clause-B**, the terms of the Assistant Agreement with respect to exemptions from taxes, duties and similar charges apply to the assistance provided through this agreement. The document is therefore, forwarded for your perusal of relevant portion pertaining to payments as USAID Mission is pressing for arrangement of clearance certificates for exemption of taxes from FBR prior to arrival of consignment at Karachi.

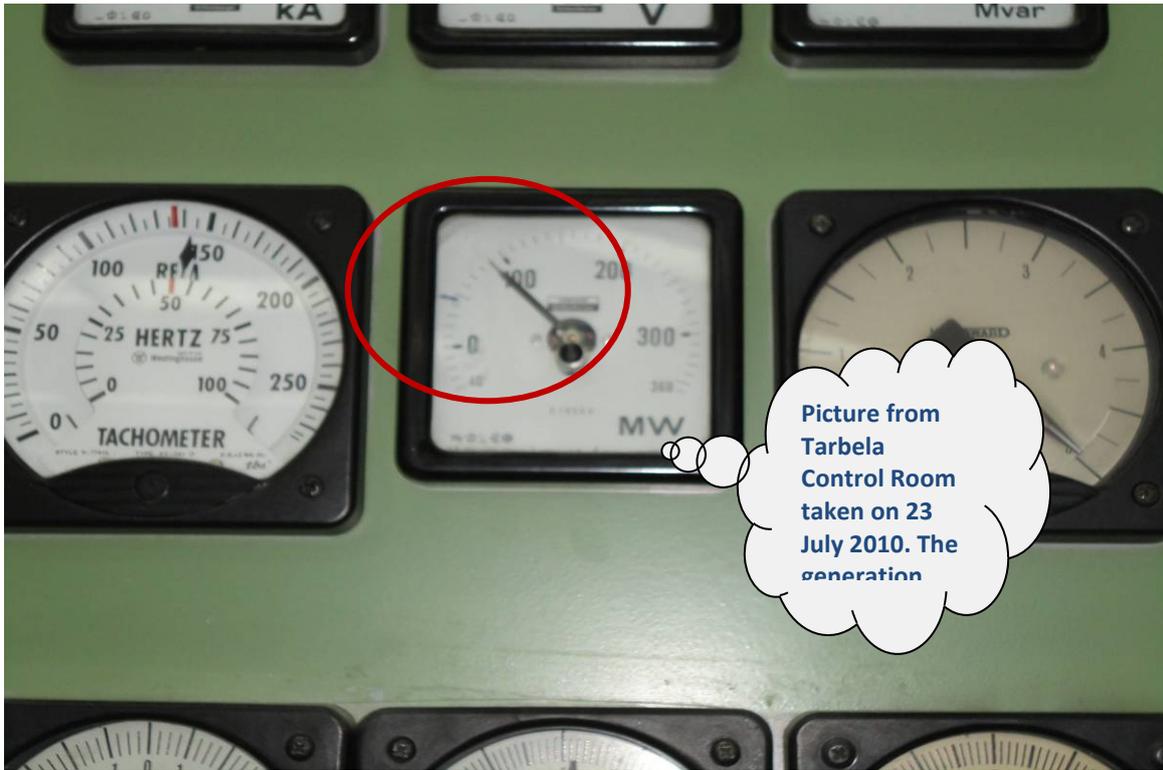
Vide above referred letter the matter was referred to C.R.R. Karachi for his comments. In response, a fax has been received (copy enclosed) wherein the office has advised that the case for special exemption may be taken up with Federal Board of Revenue (F.B.R.) at your own level under the provision of the Contact Agreement.

In the light of the above, it is requested that the office of General Manager Finance (Power) may please be approached for acquiring taxes and duties exemption certificate from F.B.R. prior to the arrival of 1st shipment of Class-F insulation winding of Unit No. 4 as this office is not in a position to deal directly with the Ministry of Finance or F.D.R. please.

CHIEF ENGINEER (POWER)
WAPDA - TARBELA DAM

DA/As above

ANNEX – E: Pictures of Unit-4 Damaged Winding / Rotor Lifting



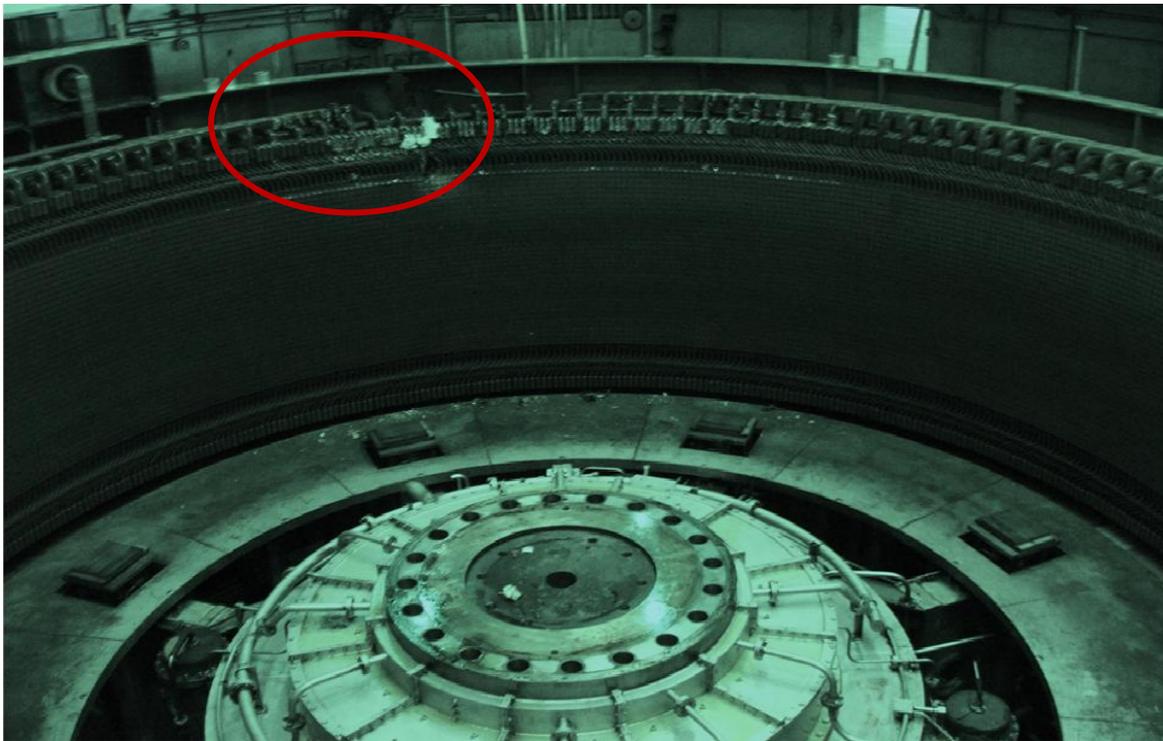
Unit-4: Generation Reduced to 80MW out of Total Installed Capacity of 175MW



Unit-4: A View of Damaged Stator Winding



Unit-4: Rotor Lifting for Repair of Damaged Stator Winding



Unit-4: A View from Inside Showing Damaged Stator Winding

