Environment Monitoring Report

Bi-annual Environment Monitoring Report August 2016

PAK: MFF – Power Transmission Enhancement Investment Program (Tranche 3)

Prepared by Peshawar Electric Supply Company, Khyber Pakhtunkhwa for the Asian Development Bank.

NOTES

- (i) The fiscal year (FY) of the Government of the Islamic Republic of Pakistan and its agencies ends on 30 June.
- (ii) In this report "\$" refer to US dollars.

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Re: L2972 PDEIP: BAEMRs (Jan-Jun 2016) of GEPCO, HESCO, IESCO, LESCO approved for

disclosure Safia Shafiq

to:

Liaqat Ali

01/09/2016 02:11 PM

Cc

Zhang Lei, Ehtesham Z. Khattak, Zehra Abbas, "Jeffrey Bowyer"

Hide Details

From: Safia Shafiq/Consultants/ADB To: Liagat Ali/PRM/ADB@ADB

Cc: Zhang Lei/CWRD/ADB@ADB, Ehtesham Z. Khattak/PRM/ADB@ADB, Zehra

Abbas/CWRD/ADB, "Jeffrey Bowyer" < jeffreybowyer@outlook.com>

3 Attachments





L2972 QESCO BAEMR (Jan-Jun 2016).doc L2972 PESCO BAEMR (Jan-Jun 2016).doc



L2972 MEPCO BAEMR (Jan-Jun 2016).docx

Dear Liagat Sb.,

My apologies for the miscommunication. Please disclose the BAEMRs attached with my first email (GEPCO, HESCO, IESCO and LESCO). I am attaching some others (MEPCO, PESCO and QESCO) with this email. Please disclose these as well. FESCO remains, I will forward that shortly.

Thanks and regards,

Safia Shafiq Environment Specialist (Consultant) Pakistan Resident Mission Asian Development Bank

Level 8, North Wing, Serena Office Complex, Khayaban-e-Suhrawardy G-5, Islamabad, Pakistan.

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-----Liaqat Ali/PRM/ADB wrote: -----

To: Safia Shafiq/Consultants/ADB@ADB

From: Liaqat Ali/PRM/ADB Date: 09/01/2016 01:19PM

Cc: Zhang Lei/CWRD/ADB@ADB, Ehtesham Z. Khattak/PRM/ADB@ADB, Zehra Abbas/CWRD/ADB@ADB, "Jeffrey Bowyer" <jeffreybowyer@outlook.com>

Subject: Re: L2972 PDEIP: BAEMRs (Jan-Jun 2016) of GEPCO, HESCO, IESCO, LESCO approved

for disclosure

Dear Safia:

Your approval for disclosure is for GEPCO, HESCO, IESCO and LESCO.

The attachments to the email are: PESCO, MEPCO, HESCO, IESCO and LESCO. The approved GEPCO EMR is missing. Can I also disclose PESCO and MEPCO not listed in your email.

Regards,

Liaqat Ali, Project Analyst, Pakistan Resident Mission Level 8, North, Serena Office Complex, G-5, Islamabad/Pakistan

Tele: (92-51) 2600351-69/2087210 Fax: (92-51) 2600365-66/2087397-98

email: lali@adb.org.

' Safia Shafiq---01/09/2016 12:48:22 PM---Dear Liaqat Sb., The attached BAEMRs (Jan-Jun 2016) of GEPCO, HESCO, IESCO and LESCO under L2972 PDE

From: Safia Shafiq/Consultants/ADB

To: Liaqat Ali/PRM/ADB@ADB

Cc: Zhang Lei/CWRD/ADB@ADB, Ehtesham Z. Khattak/PRM/ADB@ADB, Zehra Abbas/CWRD/ADB@ADB, "Jeffrey Bowyer" <jeffreybowyer@outlook.com>

Date: 01/09/2016 12:48 PM

Subject: L2972 PDEIP: BAEMRs (Jan-Jun 2016) of GEPCO, HESCO, IESCO, LESCO approved for

disclosure

Dear Liagat Sb.,

The attached BAEMRs (Jan-Jun 2016) of GEPCO, HESCO, IESCO and LESCO under L2972 PDEIP are approved for disclosure. Please have them uploaded on ADB website and share the weblinks with me.

Thanks and regards,

Safia Shafiq Environment Specialist (Consultant) Pakistan Resident Mission Asian Development Bank

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Khayaban-e-Suhrawardy G-5, Islamabad, Pakistan.

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Cell: +92-333-2154462[attachment "L2972 PESCO BAEMR (Jan-Jun 2016).doc" deleted by Liaqat

Ali/PRM/ADB] [attachment "L2972 QESCO BAEMR (Jan-Jun 2016).doc" deleted by Liagat

Ali/PRM/ADB]

Project Number:

2972 - PK, Tranche - III

{Jan - June 2016}

Islamic Republic of Pakistan

Power Distribution Enhancement Investment Project (PDEIP) – Tranche – III Multi – Tranche Financing Facility (MFF)

Financed by the ASIAN DEVELOPMENT BANK

Prepared by

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Suleman Khan AM(Social Impact)
Office of the Chief Engineer (Development) PMU
PESHAWAR ELECTRIC SUPPLY COMPANY (PESCO)
PESCO Head Office, Shami Road Peshawar.

For

Pakistan Electric Power Company (PEPCO)
Peshawar Electric Supply Company (PESCO)

ABBREVIATIONS

ADB Asian Development Bank
AJK Azad Jammu & Kashmir
BPI British Power International
CED Chief Engineer Development

E&SS Environmental and Social Safeguard

EA Executing Agency

EIA Environmental Impact AssessmentEPA Environmental Protection AgencyEPD Environmental Protection Department

GOP Government of Pakistan

GS Grid Substation

IA Implementing Agency

IEE Initial Environmental Examination

PESCO Peshawar Electric Supply Company

KV Kilo – Volt

MOW&P Ministry of Water and Power

MFF Multi – Tranche Financing Facility

NOC No Objection certificate

PDEIP Power Distribution Enhancement Investment Program / Project

PEPA Pakistan Environmental Protection Act
PEPCO Pakistan Electric Power Company

PMU Project Management Unit

TL Transmission Line

<u>ADB</u> (Jan - June 2016)

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Bi	Annual	Environmental	Monitoring	g Re	port

<u>ADB</u>

(Jan - June 2016)

Part 1. INTRODUCTION

1.1 PESCO

Peshawar Electric Supply Company Ltd. PESCO is a Public Limited Utility Company, established in 1998 under Companies Ordinance 1984 and is responsible for distribution of Electric Power within its territorial jurisdiction and presently serving approximately 2.10 Million Customers (Domestic) in the thirteen districts of KPK Province (Peshawar, Mardan, Swabi, Swat, D.I.Khan, Kohat, Haripur, Abbotabad, Manshera, Bannu, Nowshera, Charsadda and Muzaffarabad).

1.2 Directorate of CE (Development) / Project Management Unit

To carry out and handle investment projects PESCO has established Project Management under the supervision of Chief Engineer (Development). The PMU comprises of 4 sections.

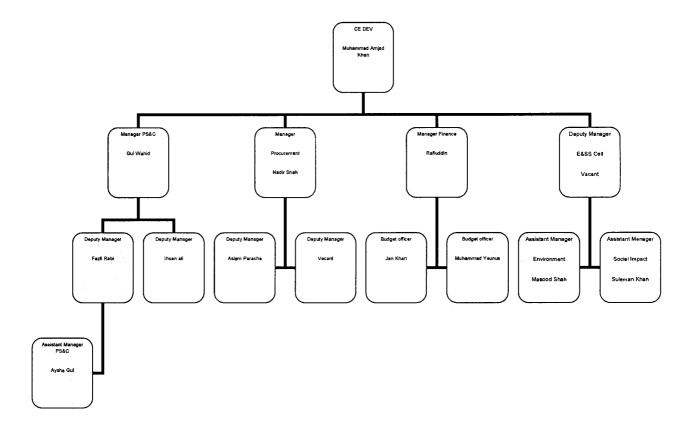
Planning Scheduling & Coordination: To take the responsibilities for (i) identifying and proposing the subprojects to PEPCO / Donor Agency for approval and financing, (ii) Scheduling and Monitoring (iii) preparing the necessary documentation in line with the statutory, corporate and Donor policies including quarterly reports (iv) coordinate with the consultants.

Procurement:To take care of all responsi8bilities and tasks related to procurement (goods, works and services) and for the activities related to material planning, preparation of bidding documents according to the requirement of the Donors, getting the evaluation done and for placing the orders after approval of the Donors, inspection and then transportation to the site. Arrange release of material thru CRR Karachi and final delivery to the site.

Project Finance: They are responsible for taking care of counterpart financing, funds flow arrangements, payments, recording and monitoring of both ADB & WB funds. Also, will establish, monitor and manage the imprest account and statement of expenditure (SOE) procedures. Furthermore ensure timely preparation of the annual audited project accounts.

Environment & Social Safeguard: To take care of all the responsibilities and tasks related to environment, land, and social (including involuntary resettlement and indigenous people) and provide oversight on occupational health, safety and environment safeguards in the working environment.

Figure 1: Organizational Structure of PMU PESCO



1.3 Power Distribution Enhancement Investment Program (PDEIP) – Tranche-III.

Government of the Islamic Republic of Pakistan (GoP) through Ministry of Water and Power (MOW&P) with assistance of Asian Development Bank (ADB) is implementing the Power Distribution Enhancement Investment Program (PDEIP) under Multi Tranche Financing Facility (MFF). This Program is part of the GoP long term energy security strategy. Pakistan Electric Power Company (PEPCO) has been nominated by Ministry of Water and Power (MOW&P) to act as the Executing Agency (EA) while Peshawar Electric Supply Company (PESCO) is the Implementing Agency (IA) for execution work in its service area. Program basic information is provided in **Table 1**.

Table 1: Program Basic Information.

The Program	Power Distribution Enhancement Investment Program (PDEIP). Multi – Tranche Financing Facility (MFF).
Subproject	Tranche – III subproject.
Sponsoring Agency	Government of Pakistan.
	Ministry of Water & Power (MoW&P).
Executing Agency	Pakistan Electric Power Company (PEPCO).
Implement Agency	Peshawar Electric Supply Company (PESCO).
Type of Financing	Loan amount US \$ 21.550 Million.
	Loan No. 2972 – PK; Tranche – III Subproject.
Loan Signing Date	September 09, 2013.
Loan Effectiveness Date	October 10, 2013.
Closing Date	June 30, 2016.
Date of Last ADB Review Mission	29 May 2016

Focal Person	Chief Engineer (Development),	
	Project Management Unit ,	
	Peshawar Electric Supply Company (PESCO).	
Focal Person for	AM (Environment) & AM (Social Impact)	
Environment & Social Safeguards	Project Management Unit,	
	Peshawar Electric Supply Company (PESCO).	

The Power Distribution Enhancement Investment Program (PDEIP) – Tranche-III is designed to provide grid-connected customers with adequate and reliable supply of electricity. The rehabilitation, augmentation, and expansion of power distribution infrastructure will increase the reliability of supply to residential, agricultural, commercial, and industrial customers across Pakistan. A reliable electricity supply will lead to social and economic benefits and improved conditions for schools, hospitals, and social services, among others. The main components of the program are given as under:

- Conversion / Up-gradation of Grid Stations
- Extension of Power Transformers in existing Grid Stations
- Augmentation of Power Transformers in existing Grid Stations
- Construction of New Grid Stations

1.4 Objective of the Program (PDEIP)

The main objectives of this Investment Program are; (i) improve power distribution infrastructure through system rehabilitation, augmentation, and expansion; and relieve the power system from distribution bottlenecks and constraints; (ii) enable continued operation and maintenance in accordance with best international practices; and (iii) the system will be capable of meeting peak demand, with electricity outages significantly reduced.

1.5 Scope of the Work

PESCO Tranche – III subproject includes 02 Nos.of New substations, 02 Nos. of 66 KV conversion to132 KV Substations, 08 Nos of Augmentation and 05 nos of Extension subprojects. The detail scope of work of Tranche - III subproject is given below in table:

Table 2: Detail Scope of Work.

NEW 132kV Grid Station and Transmission Lines

S.No	Name of Sub-Project	Type of Work	Scope of Work	Update Status
		1		

1	Construction of New 132 KV Sakhi Chashma Grid Station	New Grid Station	2x26 MVA P/TF	Contract Agreement executed With M/S Siemens on 08/4/2015. Soil investigation repeated, design drawing submitted to NTDC for approval.
2	Construction of New 132 KV Taru Jabba Grid station	New Grid Station	2x 26 MVA P/TF	Civil work in Progress
3	132 KV Kulachi Grid Station	Conversion of 66 KV Kulachi to 132 KV Grid Station	1x26 MVA P/TF	Contract Signed with M/S CCCE-ETREN JV China on 28/4/2016
	132 KV DARABAN Grid Station	Conversion of 66 KV Draban to 132 KV Grid Station	1x26 MVA P/TF	Contract Signed with M/S PEL CNEEC JV on 27/4/2016, Firm has applied for 10% advanced payement

Augmentation/ Extensions

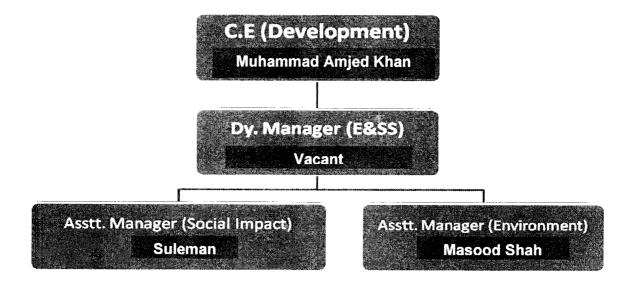
0.000		Scope of Work	Updated Status
Sr. No.	Sub-Project		
1-	132 KV Rehman Baba	1x40MVA (Aug)	Commissioned 5/3/2016
2	132 KV Swabi	1x40 MVA (Aug)	Commissioned 30/3/2016
3	132 KV Bannu	2x40 MVA (Aug)	Commissioned 16/9/2015
4	132 KV DI Khan	1x40 MVA (Aug)	Commissioned 28/8/2015
5-	132 KV Kotal Town Kohat	1x40 MVA (Aug)	Commissioned

			6/11/2015
6-	132 KV Jalala	1x26 MVA (Aug)	Commissioned 11/12/2015
7-	132 KV Jehangira	1x26 MVA (Aug)	Commissioned 24/4/2015
8-	132 KV Batal	1x26 MVA (Aug)	Commissioned 5/5/2015
9-	132 KV Dalazak	1x26 MVA (Ext)	Commissioned 21/1/2016
10-	132 KV Karak	1x26 MVA (Ext)	N.I.T for Civil Work Being published
11-	132 KV Tank	1x26 MVA (Ext)	N.I.T for Civil Work Being published
12-	132 KV Hussai	1x26 MVA (Ext)	Commissioned 6/5/2016
13-	132 KV Timergara	1x26 MVA (Ext)	TF Shifted at Site

1.6 Environmental & Social Safeguard Section - PMU

The Environmental & Social Safeguard (E&SS) Section of PMU, PESCO provides an overall supervision and advisory services during the Pre - Construction phase, Construction phase & Post — Construction phase of the project. The E&SS also assists and advises GSC Directorate, Construction Directorate and other PESCO departments on environmental and social matters overall. Presently, the E&SS Section has one Environmental under the supervision of a Deputy Manager Environmental and Social Safeguard (E&SS). The organizational structure of E&SS — PMU PESCO is attached as below.

Figure 2: Management Structure of E&SS – PMU – PESCO



1.7 Present Status of the Project.

- Under Tranche-III Sub-projects Civil Work has been started. In this connection E&SS
 Cell carried out an internal monitoring visit on 24 May 2016 of the new 132 kV Taru
 Jabba Grid Station site. The findings of the team are as under:
 - During discussion with Workers, it was unveiled that trees are cut down for the said intervention, and mostly trees were fruit trees, but workers were not up to date about their numbers. Replantation work is in progress.
 - Prior to the commencement of Project PMU PESCO E&SSC oriented Contractor about the ADB Policy and National laws prevailing in the country regarding the said project for effective implementation.
 - E&SSC demanded results of water quality parameters, which is still awaited Further, waste management plan has not been prepared by the contractor and waste is found dumped haphazardly.
 - Water bowser for water sprinkling is not available on site.
 - Non availability of First Aid Box
 - Staff were not trained on OHS

- Lack of Emergency Plan
- Poor house keeping
- Accommodation and Mess area were found in very bad condition
- In latrines construction national and international protocols are absolutely ignored.
- Drinking water found in very bad condition
- Food items not stored properly
- Safety signage was not posted
- The Project area was not properly cordoned off.
- PPEs were not available and not followed as per requirement.

Monitoring Indicator of Part – I set by ADB. 1.8

Description of Indicator	Remarks
Construction activities and Project Progress during previous 6 months.	Tranche-III Sub-Projects are physically launched.
Changes in project organization and Environmental Management Team.	Post of Deputy Manager (E&S) is still vacant. Assistant Manager (Social) and Assistant Manager (Environment) are hired and are of relevant experience and educational background.
Relationships with Contractors, owner, lender, etc.	Meetings have been held with contractors on implementation of Protocols and Guidelines set by ADB.

Part II ENVIRONMENTAL MONITORING

2.1 Monitoring.

Environmental Monitoring of the projects carried out by E&SS Section, PMU PESCO for the smooth and effective implementation of EMMP ON 24 May 2016 to check level of compliance, so deficiencies identified and contractor guided and directed for implementation, as the condition was very worst, which followed by External Monitoring visit from SMEC Int. on 6 June 2016, during this visit it is found that most of the deficiencies were addressed by contractor, but further improvement is required.

2.2 Monitoring Indicator of Part – II set by ADB.

Description of Indicator	Remarks
Summarizes the previous six months monitoring data and provide explanations of any instances where environmental standards or guidelines are exceeded.	Environmental Monitoring of the projects carried out by E&SS Section, PMU PESCO for the smooth and effective implementation of EMMP ON 24 May 2016 to check level of compliance, so deficiencies identified and contractor guided and directed for implementation, as the condition was very worst, which followed by External Monitoring visit from SMEC Int. on 6 june 2016, during this visit it is found that most of the deficiencies were addressed by contractor, But still area for improvement is there.
Noise and Vibration. Water Quality. Air Quality. Flora and fauna monitoring.	Samples have been taken and sent for analysis to PCSIR Lab Peshawar; the results are pending.

Part III ENVIRONMENTAL MANAGEMENT

3.1 Environment Documents (IEE / EIA Reports)

PESCO PDEIP Tranche – III Projects has been classified as *Category B Project* in accordance to ADB Environment Policy (2002) and ADB Environmental Assessment Guidelines (2003). The project falls under Schedule – II of PEPA Act, 1997, which requires Environmental Impact Assessment (EIA) to be carried out for the project.

This Office prepared Draft IEE reports for tranche III, submitted to SMEC Int. and SMEC after getting approval from ADB submitted a consolidated EIA report back to this office. On February 26th 2014 the said EIA report was submitted to EPA Peshawar. After reviewing the report, DG EPA officially rejected the report with the observation that separate EIA report for each sub-project should be submitted as consolidated EIA report is not acceptable. This office while in its correspondence told to the officials of EPA that PESCO Tranche-III sub projects fall under category-B projects that have negligible adverse impacts on natural environment but EPA did not agree. Finally PMU PESCO arranged a meeting of SMEC Environmental Expert with DG EPA Peshawar on October 20, 2014; in the said meeting DG EPA advised to submit only two EIA reports that for the construction of New 132 KV Sakhi Chashma & Construction of New 132 KV Taru Jabba Grid Station while the Two Nos.of conversion of 66 KV Kulachi to 132 KV and 66 KV Draban to 132 KV Grid stations have been waived off from getting NOC.

The No Objection Certificates (NOC) of all subprojects were received from the EPA in 2015.

3.2 Awareness & Trainings:

The GSC staff Of PESCO as well as contractors are briefed regarding adoption of environmental and social measures while internally visiting the ongoing Tranche-III subprojects.

3.3 EMMP as a part of bidding Documents

Environmental Management & Mitigation Plan (EMMP) & Monitoring Plan from the approved EIA Report has made part of the bidding documents of civil works of Tranche – III Subprojects.

3.4 Clauses in the Bidding Documents

Employer's Requirement / Supplementary Information:

<u>SI-03. Environmental Issues:</u> The Contractor shall comply and carry out all the monitoring and mitigation measures as set forth in the Environmental & Social Management Plan (EMP). The EMP & Environmental Monitoring Plan is attached as Annexure with bidding document.

General Condition of Contract:

J. Protection of Environment

CLAUSES TO BE ADDED REGARDING ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN (EMMP) AND LAND ACQUISITION AND RESETTLEMENT PLAN (LARP) IN BIDDING & CONTRACT DOCUMENTS OF THE SUB-PROJECTS TO BE FINANCED BY ADB UNDER TRANCHE-II.

The contractor will:

- (a) Be responsible for the implementation of Environmental Management and monitoring plan (EMMP) and land acquisition & resettlement plan (LARPs).
- (b) Engage/ hire an "Environmental Inspector" who will liaise and coordinate with PESCO environmental and social cell (PESC) in order to ensure compliance with the proposed mitigation and monitoring measures required under EMMP and LARP, necessary guidance in this respect will be provided to environmental Inspector by PESCO environmental and social cell (PESC).
- (c) Fully restore pathways, other local infrastructure (sewerage line, water transporting system/ pipe, rain water drainage system etc) damaged due to construction activity at the project site and agricultural land to at least pre-project condition upon the completion of construction.
- (d) Provide a written notice regarding any unanticipated environmental risk or impacts that arise during implementation of the project and were not considered in the IEE, EMP and the LARP.
- (e) Obtain NOC or compliance certificate from PESCO environment & social cell regarding effective and successful implementation of EMP & LARPs prior to claim any payment regarding civil works of grid station and transmission line.
- (f) Comply with all applicable laws (Pakistan Environment Protection Act PEPA 1997, Labour Laws) of the country and pertinent occupational health and safety regulations.
- (g) Try to provide the optimum employment opportunity to women living in the vicinity of the project area and refrain from child Labour.

- (h) Disseminate information at work sites regarding risk of transmissible diseases (HIV/AIDS & Hepatitis) for the workers employed during construction work and take adequate/ proper measures to protect workers from potential exposure to these diseases.
- (i) Avoid discrimination between the wages of benefits of male and female workers for work of equal value.

In case of non-compliance with mitigation and monitoring measures of EMMP and LARPs, the employer has the right to suspend work and withheld payments till the remedial measures. Any delay caused by the non-compliance of the mitigation and monitoring measures by the contractor will be on the account of the contractor and will be liable to pay penalty up to 10% of the total cost of contract and no extension of time will be allowed to the contractor.

• Special Condition of Contract:

9.	Contractor's Responsibilities
9.8	The Contractor shall comply with all applicable national, provincial, and loca Environmental laws and regulations.
	The Contractor shall (a) Establish an operational system for managing environmental impacts.
	(b) Carry out all of the monitoring and mitigation measures set forth in the Initia Environmental Examination ("IEE") and the Environmental Management Plan (EMP) attached hereto as Appendix 8 / Annexure - C
	(c) Allocate the budget required to ensure that such measures are carried out. The

Contract Forms / Contract Agreement: The following documents shall constitute the Contract between the Employer and the Contractor, and each shall be read and construed as an integral part of the Contract (Reference GCC Clause 2):

Contractor shall submit to the Employer quarterly report on the carrying out of such

- (a) This Contract Agreement and the Appendices hereto
- (b) Letter of Bid and Price Schedules submitted by the Contractor
- (c) Special Conditions
- (d) General Conditions
- (h) Specification
- (i) Drawings

(f) Environmental & Social Mitigation Plan

(g) Environmental Monitoring Plan

- (j) Other completed Bidding Forms submitted with the Letter of Bid
- (k) Any other documents part of the Employer's Requirements.

3.5 Monitoring Indicator of Part – III set by ADB.

Description of Indicator	Remarks
EMS, SSEMP and work plans. Report on delivery of documents, required amendments etc.	Contractors are asked for the submission of SSEMPs for their respective projects, But still awaited at their end.
Site Inspections and audits – summarizes the number and type of site visits	Lack of Fleet Facility for E& SS Cell hindering the said task.
Non-compliance notices – summarizes the details on the number of notices given out and the issues covered. Summaries the ranking of issues.	Three reminders have been served to M/S Siemens.
Corrective action plans - report on timeliness of preparation and completion	Action plan has been send to contractor and discussed for implementation.
Consultation and complaints – report on any consultation undertaken and list any complaints received.	During External Monitoring Visit of SMEC Int. on 6 June 2016, all the contractors were Briefed and Guided on the Prescribed Guidelines and Protocols for their respective Projects.

Photographs











Bi-annual Environmental Monitoring Report

Project Number: ADB Loan No. 2972 – Pak Tranche III

Jan - June 2016

Government of the Islamic Republic of Pakistan

ASIAN DEVELOPMENT BANK- PDEIP Power Distribution Enhancement Investment Program Tranche-III

Prepared by: Environmental and Social Safeguard Section PMU QESCO

Quetta (Pakistan)

This report does not necessarily reflect the views of ADB or the Government concerned, ADB and the Government cannot be held liable for its contents.

Asian Development Bank

ABBREVIATION

A Augmentation

ADB Asian Development Bank

BPI British Power International

BEPA Balochistan Environmental Protection Agency

BOQs Bill of Quantities

C Conversion

CSC Construction Supervision Consultant

DGS Distribution Grid System

E Extension

EIA Environmental Impact Assessment

EMP Environmental Management Plan

EMS Environmental Management System

EARF Environmental Assessment & Review Framework

SSEMP Social safeguard and Environmental Management Plan

GOP Government of Pakistan

GSC Grid System Construction

HSE Health Safety & Environment

IEE Initial Environmental Examination

LARF Land Acquisition & Resettlement Framework

LARP Land Acquisition & Resettlement Plan

MC&C Monitoring, Controlling & Coordination

MFF Multi Trenches Financing Facility

MM Mitigation Measures

MVA Mega Volts Ampere

PPEs Personal Protection Equipments

PMU Project Management Unit

PDEIP Power Distribution Enhancement Investment Program

PS&C Planning, Scheduling &Coordination

QESCO Quetta Electric Supply Company

STG Secondary Transmission Grid

T/LINE Transmission Line

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Part -1

Company Introduction

1. Quetta Electric Supply Company (QESCO) is a Public Limited Utility Company, established in 1998 under Companies Ordinance 1984 and is responsible for distribution of Electric Power to the entire province of Baluchistan excluding Lasbela district under a Distribution Electric Power within its territorial jurisdiction and presently serving approximately over 0.5 Million Customers (Domestic, Commercial, Agricultural, Industrial and others) in the thirty districts of Balochistan. QESCO has undertaken the ADB's power distribution enhancement investment project PDEIP Tranche III to enhance the capacity of its power distribution system.

Project Management Unit (PMU)

2. To effectively plan, execute and monitor the project loan No 2972 Power Distribution Enhancement Investment Program (Tranche-3), a Project Management Unit (PMU) has already been established for ADB funded projects since 2009 in QESCO under supervision of General Manager/Chief Engineer (Development) & comprising of four sections i.e. i) Planning, Scheduling & Coordination, ii) Procurement, iii) project Finance and iv) Environment & Social Safeguard. Project Director Grid System Construction PD GSC is assisting GM (Dev) for activities related to project execution.

Detail of Project

3. Existing conditions of the QESCO power distribution and transmission system are inadequate to meet rapidly growing demand for electrical power. To cope with this situation, the existing power infrastructure has to be improved and upgraded. The overall contribution of power infrastructure requires institutional arrangements, capacity building that support strategic management of the sector, planning and management of investments.

4. This Project is to help in enhance the efficiency, reliability, and quality of electricity Power in terms of the overall technical and commercial losses reduction, continuous availability and the improved voltage profile of electricity in

its distribution network system

The basic information of the ADB loan No. 2972- Pak Tranche 3 is given as

under:-

ADB Loan Number: 2972 -PAK Tranche-3

Project Title: - Power Distribution Enhancement Investment Program (PDEIP)

Location of the Project

5. This project covers construction work of two 2 No.s of new double circuit 132KV Transmission line in jurisdiction of Quetta Electric Supply Company (QESCO) across 08 Districts of Balochistan i.e. Quetta, Mastung Khuzdar, Kalat, Loralai, Qila saifullah, Muslim Bagh, and Pashin districts.

Borrower:-GOP/ QESCO

Executing Agency:-PEPCO

Implementing Agency:-QESCO

Date of Signing Agreement: 09-09-2013

Date of Effectiveness: 10-12-2013

Date of Loan Closing: 31-12-2016

Date of Loan closing revised 31-01-2018

Date of Last ADB Review Mission: - 22 May, 2016

Amount of Loan: 81.95 Million US\$

Objectives of the Project

6. In July 2008 Government of Pakistan and Asian Development Bank (ADB) have entered into a Framework Financing Agreement (FFA) to finance the Power Distribution Enhancement Investment Program (PDEIP). The QESCO through GOP has undergone this multi tranche financing facility (MFF) and signed an agreement with Asian Development Bank for:

Enhancement and strengthening the capacity of Power Distribution and Transmission system networks

To meet the increasing electricity demand in the selected areas more efficiently

To extend and upgrade the existing power infrastructure.

Activities and progress during six 6 months of Tranche 3

- 7. Project declared effective by 22/04/2015 vide letter No PMU /QESCO/GM (Dev)/TR-3/811-14 Dated 23-4-2015
- 8. Environmental Approval/ No Objection Certificate NOC from Balochistan Environmental Protection Agency (BEPA) has been obtained by QESCO for construction of two new double circuit transmission lines under ADB loan No. 2972-Pak Tranche-III vide letter No. DG (EPA)/011/2015 dated 01/06/2015 (Annex-A)

Scope of Work

9. QESCO through Tranche 3 subprojects undertakes the construction of Two 02 Nos. of -132KV double circuit transmission lines on Turnkey bases: **Q1** from 220KV grid station Khuzdar to 132KV grid station Surab and then from 132KV G/S Kalat to 132KV G/S Mastung; and **Q2** from Loralai 220KV Grid Station to Muslim Bagh Khanozai and Pishin to Quetta industrial grid station approved subprojects under ADB Tranche-3. Details are as under:

ADB APPROVED QESCO TRANCHE-3 SUB PROJECTS Table 1

Project No.	Project Name	Qty of	Circuit Length
		Projects	in KM
Q1	Construction/ Installation of 132 KV Double circuit Construction Transmission Line From Khuzdar-Surab & Kalat - Mangochar – Mastung	1	209
Q2	Installation of 132 KV Double circuit Transmission Line From Loralai-Muslimbagh-Khanozai & pishin- Yaru- Quetta Industrial	1	267

Physical Status of Sub Projects Tranche-3

- 10. Almost 95 % of the survey of route and preparation of transmission line profile is completed.
- 11. 75% of excavation work is done, 60% of concrete work is completed, 40% erection of tower is done, 35% of stringing is completed and 40% of line bay foundation civil work is completed. Some of the issues like handling and transportation of materials, proper use of PPEs and waste management issues were observed.

Changes in Project Environmental Management Team

12. The Deputy Manager (E&S) has retired and the position has not been filled. There are no other changes in staffing over the reporting period with respect to Environmental Management Team. Up to date organization chart is attached as **Annexure-B**

Relationships with contractors, owner, lenders etc.

13. The sub projects are at their peak stage and of relationship between contractors, owners and lenders are found fair and satisfactorily and no dispute occurred during this reporting period.

Part II Environmental Monitoring

Environmental Monitoring Summary

14. The main objective of environmental monitoring is implementation of EMP, and compliance with ADB's environmental safeguards as stipulated in the Safeguards Policy Statement (SPS) 2009. The excavation and tower foundation work is in progress in some sections and at other sections, erection of tower is being carried out with stringing of power conductor in the remaining sections of the transmission lines. The route survey has almost been finalized during this period and no significant environmental impacts have been observed/reported. However some concerns regarding labor welfare, waste management and use of proper PPEs were raised and supervisors were directed to resolve these issues and ensure EMP compliance as per the contract agreement.

Part III Environmental Management

EMS, SSEMP and work plans

15. Both the subprojects are at construction stage and the EMPs are being implemented satisfactorily. However, some non-compliances regarding first aid box, safety signage and usage of PPEs were observed during monitoring. The implementation report of mitigation requirement is included in this report.

Site Inspection and Audits

16. Site inspections and audits of the subprojects have been performed regularly and contractor is directed to ensure compliance with BEPA regulation and ADB's SPS 2009 in implementation of EMP.

Non Compliances Notices

17. No non-compliance notices have been sent during the reporting period.

Issues Covered

18. No major environmental issue has been observed yet, if reported/found will be communicated/ covered accordingly

Corrective Action Plans

19. No corrective action plans were required to be prepared during the reporting period.

Consultation and Complaints

20. No complaint was recorded during the reporting period. The Grievance Redressal Committee (GRC) is constituted in QESCO (Annex-C) and it was observed that the people of project area are happy with construction of transmission lines and showed their interest in providing local labor to work for contractor.

Implementation report on EIA/IEE mitigation requirements of QESCO Subprojects

References	Mitigation Requirements	Action to Date/Implementation	Action required/
			Comments
	1. QESCO to engage environmental specialist to		
	monitor and progress all environmental statutory	1. QESCO has a fully functional E&S Section,	Regular Training
Orientation	and recommended obligations.	which conducts monitoring activities regularly.	Need Assessment
for	2 Conduct special briefing for managers and / or on-	2. Special briefings and on site training have	TNA is required for
Contractor,	site training for the contractors and workers on the	been conducted for the managers, staff and	refreshing and
and Workers	environmental requirement of the project. Record	workers on environmental requirements of the	continuous
	attendance and achievement test.	project.	professional
	3. Agreement on critical areas to be considered and	3. No any critical area issue/agreement	development of All
	necessary mitigation measures, among all parties	occurred /reported, if so will be communicated	relevant staff.
	who are involved in project activities.	4. E& S Section of PMU QESCO follows the	Induction and six
	4. Continuous progress review and refresher	continuous progress and review the project	month refresher
	sessions to be followed	activities	course as
			necessarily as
			contractor complies.
	1. Providing adequate warning signs	1. Some of the warning signs are installed at	
Safety	2. Providing workers with skull guard or hard hat	project site.	Continuous
Precautions	and hard toe cap shoes.	2. All workers are provided with Personal	monitoring,
for the	3. Contractor shall instruct his workers in health and	Protection Equipments (PPEs)	supervision is
Workers	safety matters, and require the workers to use the	3. Workers are advice to use PPEs, instruction	required for workers
	provided safety equipment	information and supervision is provided to	to follow the safety
	4. Establish all relevant safety measures as	workers for safety matters.	precautionary
	required by law and good Engineering practices.	4. All relevant safety measures as required by	measures
		law and good engineering practices have been	
		established as per guidelines.	

	1. Conduct public consultation for less sensitive		Regular monitoring of
	time for works and schedule works accordingly.	1. At construction site with in 100m of	contractor supervisor
	2. Heavy equipment/ machinery shall be fitte with	sensitive receivers.	is required for strict
	effective silencers to minimize the noise.	2.A list of locations of sensitive receiver should compliance	compliance
Noise	3. Heavy equipment shall be operated only in	be identified by contractor along the ROW	
	daylight hours.	during works	
	4. Well maintained haulage trucks will be usd with	Drivers are instructed to maintained vehicles	
	speed controls.	regularly to avoid nuisance in vicinity of	
		construction site.	

Copy of NOC from Balochistan EPA Quetta



OFFICE OF THE DIRECTOR GENERAL ENVIRONMENTAL PROTECTION AGENCY GOVERNMENT OF BALOCHISTAN SAMUNGLI ROAD, QUETTA Tel: 081-9201381 Fax: 081-9201180

· No. DG (EPA)/

6//___/201

Dated: 01-Tune 12015

Subject: -

ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REPORT OF QESCO TRANCHE III SUBPROJECT UNDER ADB LOAN NO2972 PAK (TRANCHE 3).

1. Name & Address of the proponent:

Engineer Baligh-uz-Zaman, General Manager (Dev)PMU QESCO Head Quarters Zarghoon Road Quetta, Tel# 081-9201750 Fax# 381, 9201641

Fax# 081-9201641

Description of the Project:
 Power Distribution Enhancement investment Project (PDE:P)
 Loan No 2972 Fak Tranche-III

Construction of 132kv Transmission Line from
i) Loralai to Quetta Industrial Grid Station
ii) Khuzdar to Quetta Industrial Grid Station

- Location of the Project;
 Loralai to Quetta, Khuzdar to Quetta
- 4. Date of Filing of EIA: 22 May 2014
- 5. After careful review/Examination of the Environmental Impact Assessment (EIA), the Environmental Protection Agency Balochistan, Quetta has decided to accord its Environmental Approval / No Objection Certificate in favour of M/s QESCO subject to the following terms and conditions as laid down in Section 17 & 18 of IEE & EIA Regulation, 2000, subject to the Following conditions.
- Mitigation measure and Environmental Management Plan (EMP) included in the EIA report will be strictly implemented.
- 5.2. As per legal requirements, specifications, either in tump sum or percentage of the project cost, should be made with regard to Corporate Social Responsibility (CSR), before commencement of the construction work, to help in the social uplift of the project area people and community development. Such specification must be shared with Environmental Protection Agency, Balochistan before start of the project.
- 5.3 Technique should be adopted to minimize noise pollution, oil spill and Environmental problems during the extension and Augmentation of Power Lines.
- 5.4. Losses incurred by, and damages done to, the local community, in whatever form, must be financially compensated before commencement of the construction work.
- 5.5. The details and information of the compensation being paid to the project affectess and complete list of the affectees must be shared with EPA which may at any time verify it.
- 5.6. All precautionary measures should be strictly be adhered to minimize an negative impacts in the area.
- 5.7. The proponent M/S QESCO should conduct regular environmental monitoring on monthly basis through a third party consultant and that should be shared with EPA.
- 5.8. All necessary measures should be taken to ensure that the debris of earthwork and stone work does not impede the smooth flow of drainage, canals, streams, rivers or any other water way whatever the case may be.

- 5.9. Compliance of National Environmental Quality Standards (NEQS) should be strictly
- 5.10. The proponent, as per laws, should ensure that two trees are planted in case one tree is cut.
- 5.11. The proponent of the project shall resolve all disputes (if any) related to land prior to
- 5.12. EPA Balochistan, in order to ensure implementation of environmental laws and conditions of environmental approval (NOC) agreed with the proponent, may at any place before, during and after construction of the work. Furthermore, the proponent shall make all necessary arrangements for the visiting team of EPA.
- 5.13. Development plan should be in place for the benefit of the people of the project area under intimation to EPA, Balochistan.
- 5.14. This approval does not absolve the proponent from obtaining any other approval that may be required under any law.
- 5.15. Noise level should be controlled to minimum possible level in order to avoid disturbance to the local people
- 5.16. Local community should be given much priority in the project jobs.
- 5.17. The proponent shall be liable for compliance of Sections 13, 14, 17, and 18 of the "PEPA Review of IEE and EIA Regulations 2000" which direct for conditions for approval, confirmation of compliance, entry, inspection and monitoring.
- 5.18. This approval shall be treated as null and void, if the conditions are not complied with

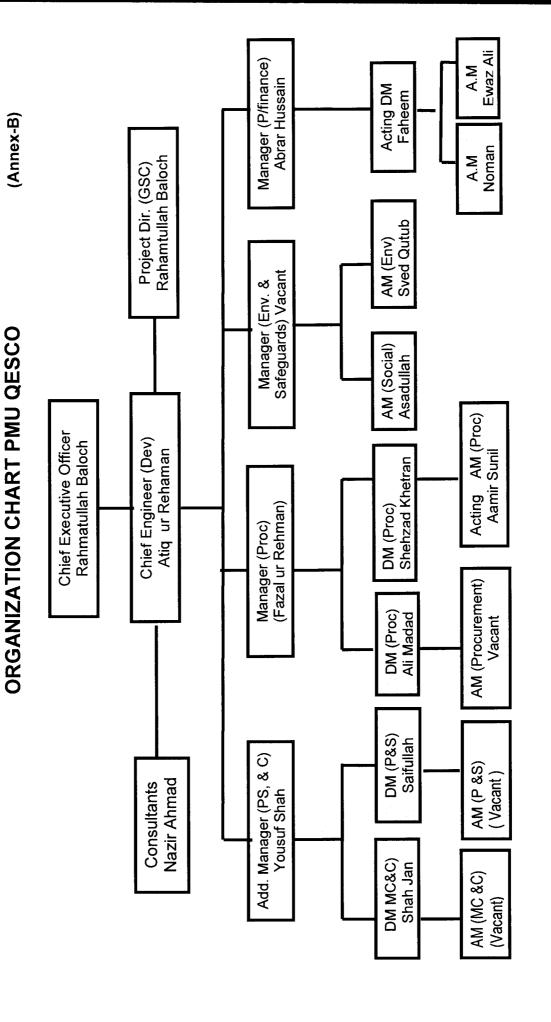
DIRECTOR GENERAL

Balochistan Environmental Protection Agency.

Quetta

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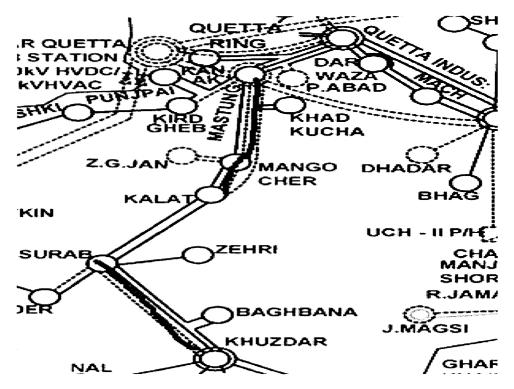
- 1. P.S. Director General, Balochistan Environmental Protection Agency, Quetta
- 2. Master File



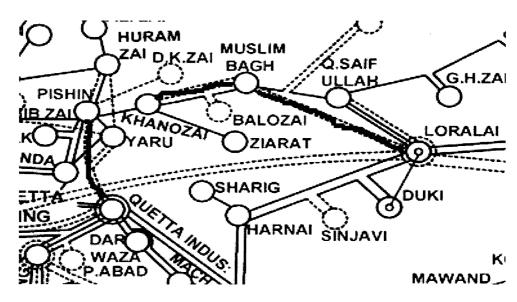
	r need Documents
OUETTA ELECTRIC SUP	PLY COMPANY OFFICE OF THE
Pax# 081-9201641 QESCO	CHIEF EXECUTIVE OFFICER HEADQUARTER ZARGHOON ROAD QUETTA CANTT
NO. CEO/QESCO/GM(Dev)/M(E&S)/9_4_7_8	Dated:
OFFICE ORDER	ŋ 9 MAR 2015
1. Grievance Redressal Committee (GRC) is compris	ing of following is here by
constituted in Pursuance of Tranche-3 ADB appro- (226).	ved EIA of Section 7 sub section 7.4
i) Project Director (GSC) QESCO ii) Executive Engineer T/L (GSC) QESCO Assistant Manager (Environment) QESCO iv) Assistant Manager (Social Impact) QESCO v) Concerned Tehsildar/ Naib Tehsildar vi) Representative of Affected Persons vii) Environmental Specialist (SMEC) viii) Contractor's Environmental Specialist	Convener Member
The Committee will be responsible for imple Mechanism (GRM)	mentation of Grievance Redressal
 The mechanism will be used for addressing implementation of projects. To receive & facilitate the resolution of affer and grievances about the project's environmental status of land acquisition, crops/trees compersions of the status of restoration of damaged community irrigation channels/water courses, drains, rose Grievance Redress activities. 	ected peoples' concerns, complaints, sental & social performance. ensation. aity infrastructure, (water pipelines, ads, streets etc.
	Chief Executive Officer QESCO, Quetta
Copy to; 1. Chief Engineer/Technical Director PMU, PEPCO, L 2. D.G HR & Admin QESCO, Quetta. 3. G.M (Dev) PMU QESCO, Quetta. 4. Officers Concerned.	ahore.

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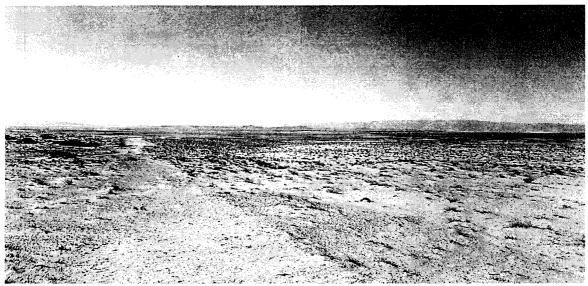


Q1. Proposed 132 KV double Circuit T/L form Khuzdar-Surab& Kalat-Mangocher-Mastung Grid Stations



Q2. Proposed 132 KV double Circuit T/L form Loralai-Muslim Bagh-Khanozai & Pishin-Yaru-Quetta Industrial Grid Stations

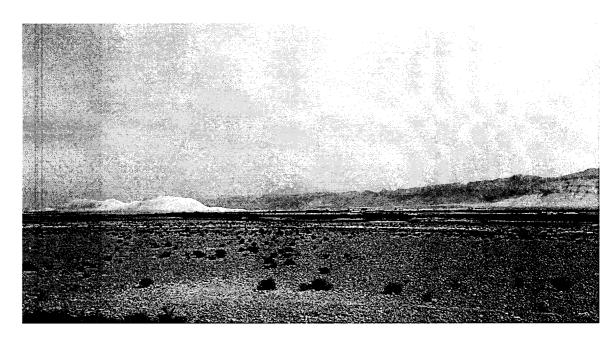
PHOTOGRAPHS OF EXISTING AND PROPOSED SITES FOR 132 KV T/L KHUZDAR-QUETTA



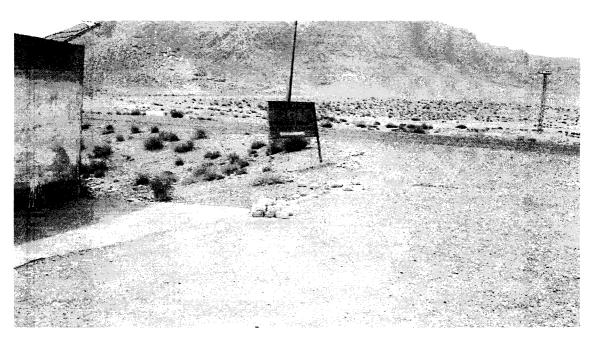
(Barren area at proposed new 132 KV T/L Khuzdar-Quetta)



Exiting 132 KV T/L Loralai to Quetta)



Proposed 132KV from Loralai - Quetta



(Proposed In and Out for new 32 KV T/L Khuzdar-Quetta)