

Environment Monitoring Report

Bi-annual Environment Monitoring Report
August 2016

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

Prepared by Lahore Electric Supply Company, Punjab 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.

This environment monitoring report is a document of the Borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

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

Safia Shafiq

to:

Liaqat Ali

01/09/2016 12:44 PM

Cc:

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

Hide Details

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, "Jeffrey Bowyer" <jeffreybowyer@outlook.com>

6 Attachments



L2972 LESCO BAEMR (Jan-Jun 2016).doc



L2972 IESCO BAEMR (Jan-Jun 2016).pdf



ATT49EOR.pdf



L2972 HESCO BAEMR (Jan-Jun 2016).pdf



L2972 PESCO BAEMR (Jan-Jun 2016).doc



L2972 MEPCO BAEMR (Jan-Jun 2016).docx

Dear Liaqat 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

Level 8, North Wing, Serena Office Complex,
Khayaban-e-Suhrawardy G-5, Islamabad, Pakistan.
Tel: +92-51-2087300, Ext: 344
Fax: +92-51-2087397-8 & 2600365-6
Cell: +92-333-2154462



Bi – Annual Environmental Monitoring Report

Project Number: 2972 – PK (Tranche – III)
(January –June, 2016)

Islamic Republic of Pakistan

Power Distribution Enhancement Investment Program Tranche-III

Multi – Tranche Financing Facility (MFF)

Financed by Asian Development Bank

Prepared By: Environment & Safeguard Cell

**Office of the General Manager Technical LESCO
132 – kV Qurtaba Grid Station Complex, Bahawalpur Road
Lahore – 54000 Pakistan**

**For: Pakistan Electric Power Company (PEPCO)
Lahore Electric Power Company (LESCO)**

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

ASIAN DEVELOPMENT BANK

Contents

Part No.	Description	Page No
Part 1	Introduction	1
1.1	Organization Chart of PMU	3
1.2	Project Overview	4
1.3	LESCO STG Network	5
Part 2	Environmental Monitoring	6
Part 3	Environmental Management	7
3.1	Submission of EIA / IEE Reports	7
3.2	Inspection of Project Sites	7
3.3	Findings / Observations	8
3.4	Corrective Action Plan	9
3.5	Consultation and Complaints	9
3.6	Environmental Awareness & Training	9
3.7	Recommendations & Suggestions	9

List of Abbreviations

ADB	Asian Development Bank
LESCO	Lahore Electric Supply Company
GOP	Government of Pakistan
EPA	Environment Protection Agency
CEO	Chief Executive Officer
STG	Secondary Transmission and Grid Station
GSC	Grid Station Construction
PD	Project Director
BPI	M/s British Power International
EIA	Environment Impact Assessment
IEE	Initial Environment Examination
LARP	Land Acquisition and Resettlement Plan
EMMP	Environment Management & Monitoring Plan
SIR	Site Inspection Report
ESCR	Environment & Social Complaint Register
BOQ	Bill of Quantities
CA	Corrective Action
NC	Non Compliance
N	New
A	Augmentation
E	Extension

Part 1. INTRODUCTION

1. Lahore Electric Supply Company Ltd; LESCO is a Public limited Utility Company, established in 1998 under Companies Ordinance 1984 responsible for distribution of Electric Power within its territorial jurisdiction and presently serving approximately three Million customers (Domestic, Commercial, Agricultural, Industrial and others) in the five districts of Lahore, Kasur, Okara, Sheikhu Pura and Nankana of Punjab Province.
2. The power sector is central to the current and future prosperity of Pakistan through the supply of low-cost electricity to domestic customers throughout the country and by virtue of its capacity to stimulate commercial and industrial development. The key challenges of the power sector are (i) lack of generation capacity, (ii) increasing constraints in the transmission and distribution systems, (iii) weak financial management and sustainability of the sector entities, and (iv) inadequate corporate governance structures for the power companies. In order to enhance the transformation capacity, LESCO through GoP has undergone a Project Financing agreement with Asian Development Bank for strengthening the capacity of Distribution and Transmission networks to meet increasing Electricity Demand in the selected areas. The amount of the loan is paid in tranches.
3. The Major Scope of Work for the Tranche – III comprises of
 - a. Construction of Four New Grid Stations along with Feed Transmission Line on Turnkey Basis

Sr. No.	Name of Projects
1	132kV Fruit Mandi(Near Kahna)
2	132kV DHA Phase-VI(Barki)
3	132kV Audit &Accounts(Sadoki)
4	132kv DHA Phase-VII(Dera Chahal)

b. **Augmentation & Extension of 12 Power Transformers with high capacity.**

Sr. No.	Name of Projects	Type
1	132kV PWR	E
2	132kV Sharaqpur	E
3	132kV Kasur New	E
4	132kV DepalPur	E
5	132kV Warburton	E
6	132kV Walgan Sohail	E
7	132kV Fort	A
8	132kV Khuddian	A
9	132kV Okara City-2	A
10	132kV Shadara New	A
11	132kV SheikhuPura	A
12	132kV Farooq Abad	A

4. Grid Station wise progress is given below:

❖ **132 KV Grid Station DHA phase VII (Dera Chahal)**

Contract has been awarded to M/s Trans Mark civil works are under progress.

❖ **132 KV Grid Station DHA phase VI (Barki)**

Contract has been awarded to M/s Trans mark civil works has not started due to the complaint of Lahore School of Economics. ADB directed to stop the work and change the location. The matter has taken up with DHA authority

❖ **132 KV Grid Station Fruit Mandi**

Notification of award has been issued to M/s CCCE-ETERN (JV) for construction of Grid Station along with associated Feeding Transmission Line. No construction activity on site has started yet. 32 Kanal land was provided by Punjab Government to LESCO voluntarily for the construction of grid station and no involuntary resettlement was involved. DDR was prepared and approved by ADB.

Subsequently LESCO constructed the boundary wall on grid station land after taking over the possession formally from Punjab Government. However, now local fruit traders have encroached inside the boundary wall of land allocated to LESCO due to non allotment of shops/sheds in fruit market and a writ petition is pending in Lahore High court for accordance of stay against Punjab Government by local traders. LESCO has taken up matter with PD Fruit Market to negotiate with encroachers and to resolve the issue of land.

❖ **132 KV Grid Station Audit & Accounts**

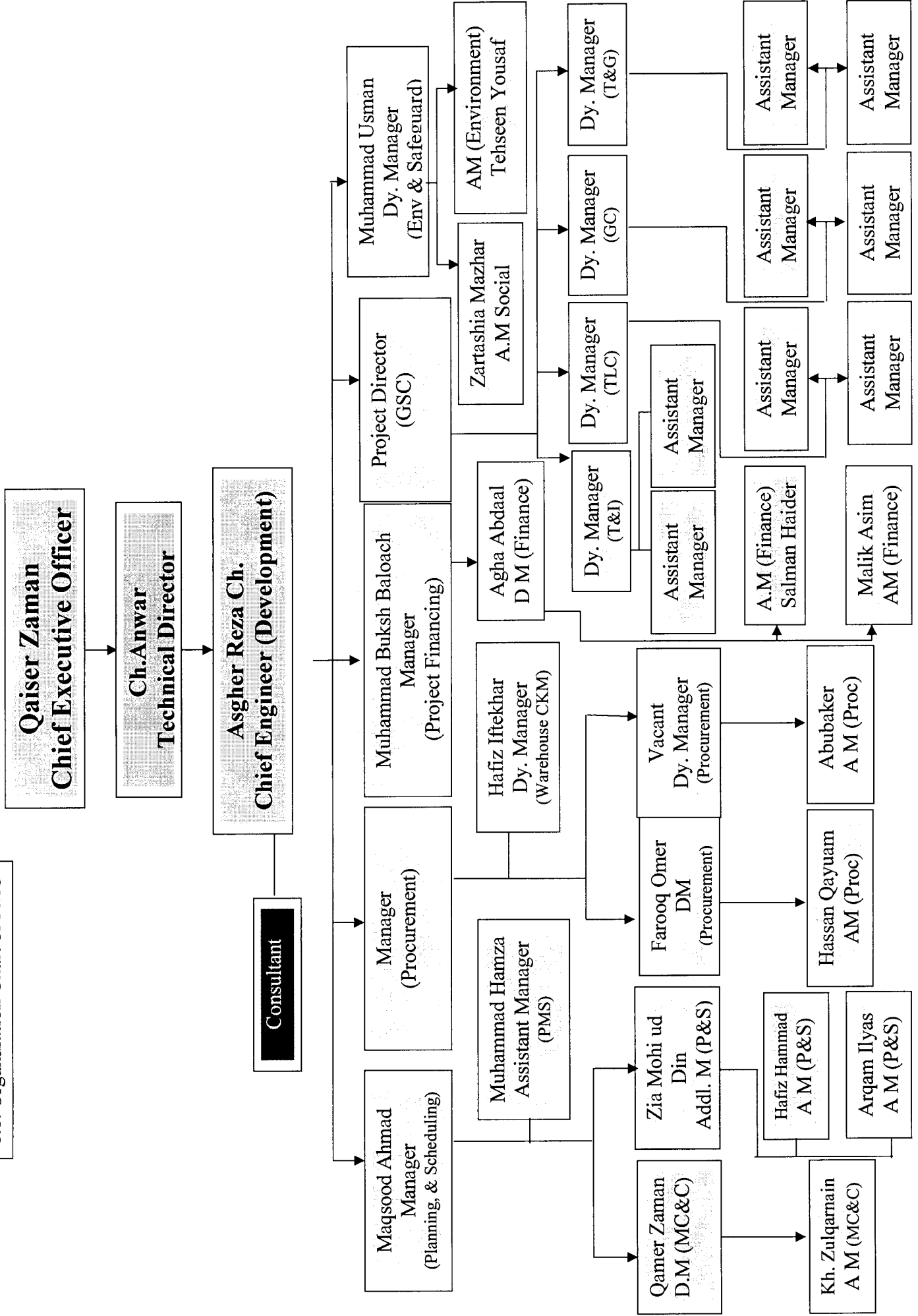
Notification of award has been issued to M/s CCCE-ETERN (JV) for construction of Grid Station along with associated Feeding Transmission Line. No construction activity has been started yet on site

❖ **Augmentation & Extension**

Extension & Augmentation works have been completed except Khuddian, Shekhupura & Farooqabad

5 Dy. Manager (Environment), Assistant Manager (Environment) and Assistant Manager (Social) are working in Environment & Social Cell (ESC) under Chief Engineer (Development) in Project Management Unit (PMU) LESCO.

1.1. Organization Chart of PMU

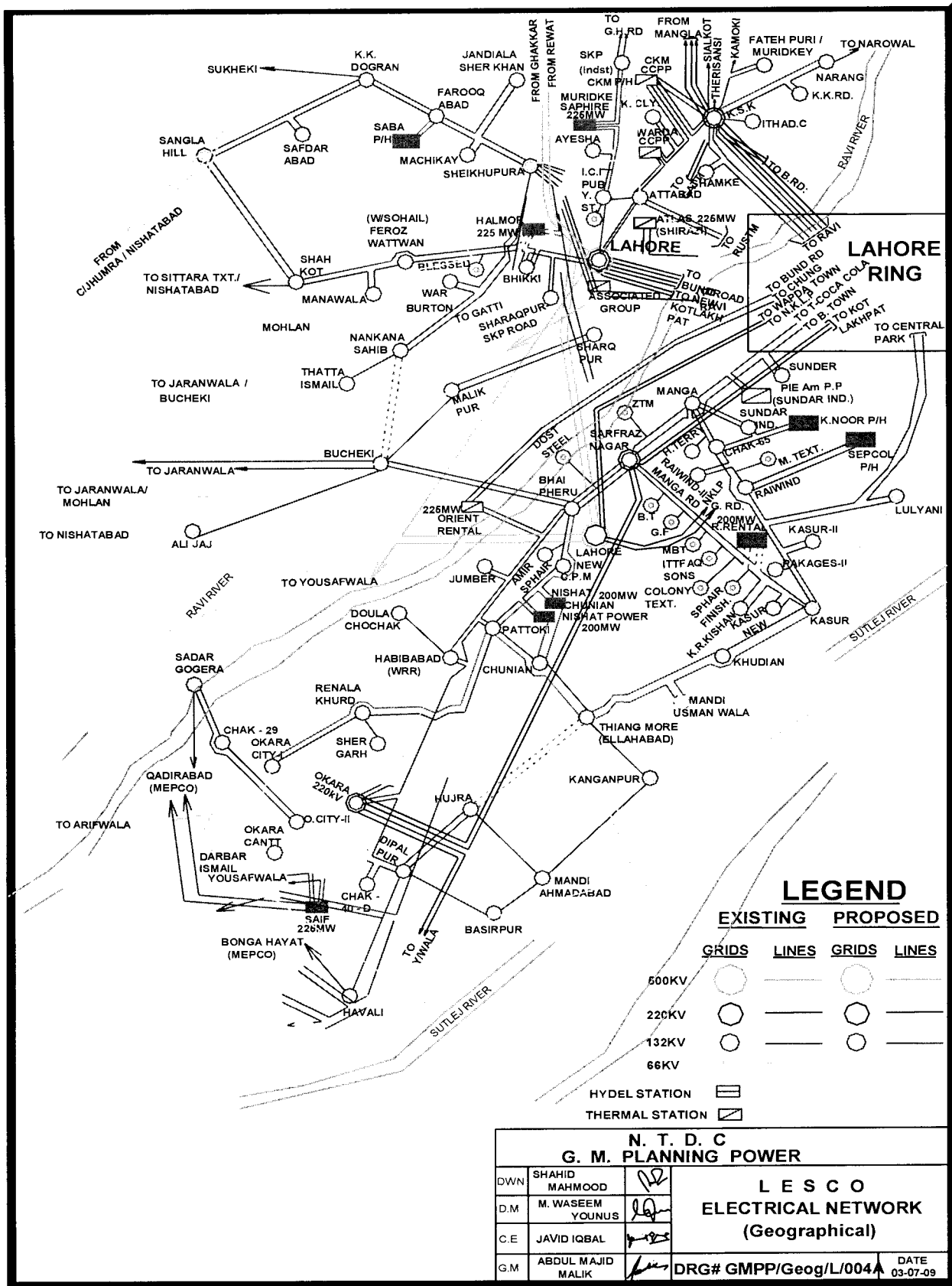


1.2 PROJECT OVERVIEW

TRANCHE – III

i	ADB Loan No.	2972- PAK
ii	Project Title	Power Distribution Enhancement Investment Project Tranche - III
iii	Borrower	Islamic Republic of Pakistan
iv.	Executing Agency	Pakistan Electric Power Company (PEPCO)
v.	Implementing Agency	Lahore Electric Supply Company Ltd.
vi.	Total Project Cost	US \$ 24.33 Million
vii.	Loan Amount	US \$ 21.9 Million
viii.	Counterpart Funding	US \$ 2.4 Million
ix	Loan Signing Date	9 September2013
x.	Date of effectiveness	10December2013
xi.	Date of closing	31 December2016

1.3 LESCO STG NETWORK



Part – 2 Environmental Monitoring

1. GSC & Contractor(s) are continuously being apprised to monitor environmental aspects during the implementation of Tranche – III sub projects.
2. BOQ and adequate clauses regarding implementation of Environment Management & Monitoring Plan were prepared and sent to Project Director GSC Circle and Procurement Section for inclusion in bidding documents. Office of PD GSC/Procurement Section has incorporated the BOQ and respective clauses in the bidding documents after vetting and approval from ADB.
3. The contractors are bound to quote specific amount against BOQ which needs to be performed during execution and implementation of EMMP/RP of sub projects.
4. **Environment & Social Cell** will monitor the implementation of EMMP and will also suggest corrective measures where necessary to comply with the following EMMP parameters.
 - **Noise and Vibration**
 - **Water Quality**
 - **Air Quality, Flora & Fauna Monitoring**

Part – 3 Environmental Management

3.1 Submission of EIA / IEE Reports

5. - Initial Environmental Examination (IEE) Reports of 4 New Grid Stations and augmentation & Extensions at 12 existing grid stations Tranche-III has been prepared by M/s SMEC.
 - These reports were reviewed and converted from Initial Environmental Examination (IEE) to Environment Impact Assessment (EIA) format to comply with the Local Statutory requirements / Law
 - Environmental Reports have been approved by Chief Executive Officer LESCO and uploaded on LESCO Website.
 - IEE & EIA Reports have been submitted to EPA Punjab on 28 – 01 – 2014 for approval
 - EPA Punjab accepted the IEE & EIA Reports and fix the Public Hearing at Lahore June 26, 2014.
 - Public Hearing was conducted on June 26, 2014 at Lahore
 - **EPA issued the NOC on August 18, 2014**
 - The Clauses and BOQ regarding the implementation of EMMP sent to procurement section for inclusion in Bidding Documents
 - A training program has been prepared which is approved by CEO LESCO But not conducted due to the non- approval of higher management.

Inspection of Project Sites

6. Environment & Social Cell (ESC) has conducted site inspections along with concerned District Environment officer of Environment Protection Department Punjab and furnished additional information as desired for preparation of Site Inspection Report (SIR)

Inspection of Project Sites

Findings / Observations

7. Findings / Observations noted during the Site visits are briefed as under:
- Land for construction of four new grid stations has already been acquired by LESCO
 - Boundary Walls have been constructed at sites of new grid stations
 - There are no potential significant Environmental Impacts associated with the sub projects where no new land is acquired. There will be some Environmental Impacts during execution of new sub projects.
 - Suitable control measures will be required in project area to minimize / mitigate environmental impacts, disruption, and contamination of surroundings arising out due to construction material / chemical handling / storage and disposal of construction waste.
 - Neither permanent land acquisition, nor resettlement or property acquisition will be required for augmentation & Extension sub projects as both will be executed within the boundary of existing grid station
 - No major / potential damages to water channels, land, construction nuisance / noise / air / waste water pollution will likely to be occurred in the sub project area.
 - LESCO has hired the laboratory to carry out analysis of environmental indicators (Air, Water & Noise)
 - Complaint Register has placed at active sites but no complaint has been recorded till date
 - Standard Safety measures has adopted at active site.

Corrective Action Plans

8. Civil work has only started at (Dera Chahl) DHA VII but still no issue has been identified.
9. Regular monitoring will be conducted with contractor to resolve the issues for the implementation of EMMP.

Consultation and Complaints

10. Environmental Social Complaint Register in English & Urdu versions will be sent to PD GSC to be placed on each active sub project site. Regular public consultations will be carried out by E&S Cell.
11. E&S Cell requested to contractor for the display of information through banners for public.

12. Environmental Awareness & Trainings

A training program has been prepared which is approved by CEO LESCO But not conducted due to the non- approval of higher management

On Site briefing will be done by E&S Cell regularly during the construction

13. Recommendations and Suggestions

- ADB should include the detailed BOQ in the bidding documents to implement of EMMP / RP.
- Cost of EMMP should be clearly defined in the bidding document.
- Capacity Building of E&S Staff is suggested at regular intervals
- ADB should assist for the sustainability of E&S Cell and SOP preparation for Environment and Social Safeguards in LESCO.

IMPLEMENTATION REPORT ON EIA / IEE of DHA VII (Dera Chahal) Grid Station

Sr. No.	Reference	Requirement	Action till date	Remarks
1	Compliance of EIA/IEE Report during execution of Civil Works of Sub Projects	Inclusion of EMMP in the Bidding Document	EMMP has been made a part of Bidding Document	Done
2	Placement of Environment & Social Complaint Register (ESCR) at Project's Sites	ESCR should be placed before the start of construction activities	LESCO has placed the ESCR at Project's Sites	Done
3	Compliance of Environment Management and Monitoring Plan during execution of Civil Works	Inclusion of EMMP in the Bidding Document	EMMP has been made a part of Bidding Document and contractor is bound for compliance	Done
4	Budget for EMMP Implementation	Allocation of Budget	BOQ is made the part of Bidding Document and Contractor is bound to quote the rates accordingly but excluded by ADB. Monitoring budget mentioned in the EIA/IEE has also been approved by competent authority and incorporated in the budget	Done
5	Training / Briefing of GSC Staff and Contractors	Design a Training Program for orientation on EMMP & LARP	A training program has been approved by CEO and ADB	Not done yet
6	Hiring of Laboratory Services	ADB desired to hire laboratory for analysis of environmental indicators	_____	Contract has expired and new contract not done due to the non payments of test.
7	Strengthening of Environment & Social Cell	Provision of Equipments, Vehicles, PPEs and necessary gadgets for monitoring of EMMP	Competent Authority accorded the approval and procurement is not done.	Not done yet

Sr. No.	Reference	Requirement	Action till date	Remarks
8	Institutionalization of E&S Cell	Establish as department Creation of post of Manager (E&S) and Environmental Inspectors and Social Enumerators to integrate the Environment & Social aspects in routine matters	Chief Executive Officer has accorded the approval to establish post of Manager (E&S) and sent it to LESCO Board of Directors for approval besides sanctioning the posts of lower staff for E&S Cell including Environmental Inspectors, Social enumerators and surveyors along with patwaris, LDC, Peon and guards PEPCO has approved and issued a SOP on Environment & Social Safeguards for Discos	Finalization Expected in near future. ADB support is sought in this regard and for approval of SOP

**IMPLEMENTATION REPORT ON EIA / IEE of DHA phase VI
(Barki) Grid Station**

Sr. No.	Reference	Requirement	Action till date	Remarks
1	Compliance of EIA/IEE Report during execution of Civil Works of Sub Projects	Inclusion of EMMP in the Bidding Document	EMMP has been made a part of Bidding Document	Done
2	Placement of Environment & Social Complaint Register (ESCR) at Project's Sites	ESCR should be placed before the start of construction activities	LESCO has placed the ESCR at Project's Sites	No civil works started yet
3	Compliance of Environment Management and Monitoring Plan during execution of Civil Works	Inclusion of EMMP in the Bidding Document	EMMP has been made a part of Bidding Document and contractor is bound for compliance	Done
4	Budget for EMMP Implementation	Allocation of Budget	BOQ is made the part of Bidding Document and Contractor is bound to quote the rates accordingly but excluded by ADB. Monitoring budget mentioned in the EIA/IEE has also been approved by competent authority and incorporated in the budget	Done
5	Training / Briefing of GSC Staff and Contractors	Design a Training Program for orientation on EMMP & LARP	A training program has been approved by CEO and ADB	Not done yet
6	Hiring of Laboratory Services	ADB desired to hire laboratory for analysis of environmental indicators	_____	Contract has expired and new contract not done due to the non payments of test
7	Strengthening of Environment & Social Cell	Provision of Equipments, Vehicles, PPEs and necessary gadgets for monitoring of EMMP	Competent Authority accorded the approval and procurement is not done.	Not done yet

Sr. No.	Reference	Requirement	Action till date	Remarks
8	Institutionalization of E&S Cell	Establish as department Creation of post of Manager (E&S) and Environmental Inspectors and Social Enumerators to integrate the Environment & Social aspects in routine matters	Chief Executive Officer has accorded the approval to establish post of Manager (E&S) and sent it to LESCO Board of Directors for approval besides sanctioning the posts of lower staff for E&S Cell including Environmental Inspectors, Social enumerators and surveyors along with patwaris, LDC, Peon and guards PEPCO has approved and issued a SOP on Environment & Social Safeguards for Discos	Finalization Expected in near future. ADB support is sought in this regard and for approval of SOP

IMPLEMENTATION REPORT ON EIA / IEE of Fruit Mandi Grid Station

Sr. No.	Reference	Requirement	Action till date	Remarks
1	Compliance of EIA/IEE Report during execution of Civil Works of Sub Projects	Inclusion of EMMP in the Bidding Document	EMMP has been made a part of Bidding Document	Done
2	Placement of Environment & Social Complaint Register (ESCR) at Project's Sites	ESCR should be placed before the start of construction activities	LESCO has placed the ESCR at Project's Sites	Done
3	Compliance of Environment Management and Monitoring Plan during execution of Civil Works	Inclusion of EMMP in the Bidding Document	EMMP has been made a part of Bidding Document and contractor is bound for compliance	No civil works started yet
4	Budget for EMMP Implementation	Allocation of Budget	BOQ is made the part of Bidding Document and Contractor is bound to quote the rates accordingly but excluded by ADB. Monitoring budget mentioned in the EIA/IEE has also been approved by competent authority and incorporated in the budget	Done
5	Training / Briefing of GSC Staff and Contractors	Design a Training Program for orientation on EMMP & LARP	A training program has been approved by CEO and ADB	Not done yet
6	Hiring of Laboratory Services	ADB desired to hire laboratory for analysis of environmental indicators	_____	Contract has expired and new contract not done due to the non payments of test
7	Strengthening of Environment & Social Cell	Provision of Equipments, Vehicles, PPEs and necessary gadgets for monitoring of EMMP	Competent Authority accorded the approval and procurement is not done.	Not done yet

Sr. No.	Reference	Requirement	Action till date	Remarks
8	Institutionalization of E&S Cell	Establish as department Creation of post of Manager (E&S) and Environmental Inspectors and Social Enumerators to integrate the Environment & Social aspects in routine matters	Chief Executive Officer has accorded the approval to establish post of Manager (E&S) and sent it to LESCO Board of Directors for approval besides sanctioning the posts of lower staff for E&S Cell including Environmental Inspectors, Social enumerators and surveyors along with patwaris, LDC, Peon and guards PEPCO has approved and issued a SOP on Environment & Social Safeguards for Discos	Finalization Expected in near future. ADB support is sought in this regard and for approval of SOP

**IMPLEMENTATION REPORT ON EIA / IEE of Audit & Accounts
Grid Station**

Sr. No.	Reference	Requirement	Action till date	Remarks
1	Compliance of EIA/IEE Report during execution of Civil Works of Sub Projects	Inclusion of EMMP in the Bidding Document	EMMP has been made a part of Bidding Document	Done
2	Placement of Environment & Social Complaint Register (ESCR) at Project's Sites	ESCR should be placed before the start of construction activities	LESCO has placed the ESCR at Project's Sites	No civil works started yet
3	Compliance of Environment Management and Monitoring Plan during execution of Civil Works	Inclusion of EMMP in the Bidding Document	EMMP has been made a part of Bidding Document and contractor is bound for compliance	No civil works started yet
4	Budget for EMMP Implementation	Allocation of Budget	BOQ is made the part of Bidding Document and Contractor is bound to quote the rates accordingly but excluded by ADB. Monitoring budget mentioned in the EIA/IEE has also been approved by competent authority and incorporated in the budget	Done
5	Training / Briefing of GSC Staff and Contractors	Design a Training Program for orientation on EMMP & LARP	A training program has been approved by CEO and ADB	Not done yet
6	Hiring of Laboratory Services	ADB desired to hire laboratory for analysis of environmental indicators	_____	Contract has expired and new contract not done due to the non payments of test
7	Strengthening of Environment & Social Cell	Provision of Equipments, Vehicles, PPEs and necessary gadgets for monitoring of EMMP	Competent Authority accorded the approval and procurement is not done.	Not done yet

Sr. No.	Reference	Requirement	Action till date	Remarks
8	Institutionalization of E&S Cell	Establish as department Creation of post of Manager (E&S) and Environmental Inspectors and Social Enumerators to integrate the Environment & Social aspects in routine matters	Chief Executive Officer has accorded the approval to establish post of Manager (E&S) and sent it to LESCO Board of Directors for approval besides sanctioning the posts of lower staff for E&S Cell including Environmental Inspectors, Social enumerators and surveyors along with patwaris, LDC, Peon and guards PEPCO has approved and issued a SOP on Environment & Social Safeguards for Discos	Finalization Expected in near future. ADB support is sought in this regard and for approval of SOP