Environment Monitoring Report

Bi-annual Environment Monitoring Report August 2016

PAK: MFF – Power Transmission Enhancement Investment Program (Tranche 2)

Prepared by Gujranwala Electric Power 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.

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L2727 PDEIP: BAEMRs (Jan-Jun 2016) of GEPCO, HESCO, IESCO, LESCO and MEPCO approved

for disclosure Safia Shafiq

to:

Liaqat Ali

12/08/2016 01:50 PM

Cc

Zhang Lei, Ehtesham Z. Khattak, Zehra Abbas, Jose Tiburcio Nicolas, "Jeffrey Bowyer", Jocelyn M.

Cabrera, Maria Ava Golda A. Destura

Hide Details

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<jeffreybowyer@outlook.com>, Jocelyn M. Cabrera/Consultants/ADB@ADB, Maria Ava Golda A.

Destura/CWRD/ADB

5 Attachments





L2727 MEPCO BAEMR (Jan-Jun 2016).docx L2727 LESCO BAEMR (Jan-Jun 2016).docx





L2727 IESCO BAEMR (Jan - Jun 2016).pdf L2727 HESCO BAEMR (Jan-Jun 2016).pdf



L2727 GEPCO BAEMR (Jan-Jun 2016).pdf

Dear Liaquat Sb.,

The attached BAEMRs (Jan-Jun 2016) of GEPCO, HESCO, IESCO, LESCO and MEPCO under L2727 PDEIP are approved for disclosure. Kindly have them posted on ADB website and share the weblink with me.

Thanks and regards,

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

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Bi-annual Environmental Monitoring Report

Project Number: 2727-PAK

Januray-June 2016

Islamic Republic of Pakistan

(Power Distribution Enhancement Investment Program-Multi-Tranche

Financing Facility-Tranche-2)

(Financed by the Asian Development Bank)

Prepared By: Assistant Manager (Environment) PMU, GEPCO

Gujranwala Electric Power Company (GEPCO)

PMU Section 565-A Model Town G.T Road Gujranwala, Pakistan Executing Agency (EA) Pakistan Electric Power Company (PEPCO) Implementing Agency (IA) GEPCO

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

Asian Development Back

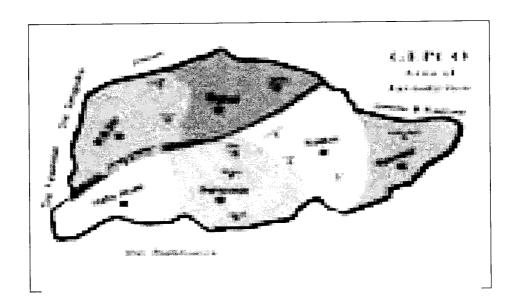
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Part I-Introduction

1.1-About GEPCO

1. Gujranwala Electric Power Company Ltd. GEPCO 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 2.5 Million Customers (Domestic, Commercial, Agricultural, Industrial and others) in the six districts of Province Punjab (Gujranwala, Narowal, Gujrat, Hafizabad, Sialkot and Mandi.b.din).



GEPCO Area of Jurisdiction

1.2-About Project Management Unit (PMU)

2. To effectively plan, execute and monitor the Power Distribution Enhancement Investment Program (Tranche-2), a Project Management Unit (PMU) has been established under Chief Engineer (Development) comprising of four sections i.e. Planning, Scheduling & Coordination, Procurement, Finance, Environmental and Social Safeguard along with Project Director (GSC).

Updated Organogram of PMU/ Development Directorate is provided at Annexure-A.

1.3- Brief Detail of Sub-projects

3. Existing conditions of the GEPCO 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.

The basic information/ data about the loan is as under:-

Loan Number:-ADB-2727 PAK

Project Title:-Power Distribution Enhancement Investment Program_Multi-tranche financing facility (PDEP_MFF_Tranche_2 (STG)

Location of the Project:-06 No. of Districts in the serving territory of GEPCO i.e. Gujranwala, Sialkot, Narowal, Gujrat, Hafizabad and Mandi-bahaud-din.

Borrower:-GOP/GEPCO

Executing Agency:-PEPCO

Implementing Agency:-GEPCO

Date of Signing Agreement: -28-01-2011

Date of Effectiveness:-29-03-2011 (After 60 days of Signing the Agreement)

Date of Loan Closing:-31-03-2015

Date of Last ADB Review Mission:-26-05-2016

Amount of Loan: -48.55 Million US\$

1.4-Objectives of the Project

- **4**. GEPCO through GOP has undergone a Project Financing agreement with Asian Development Bank for:-
 - > Strengthening the capacity of Power Distribution and Transmission networks
 - > To meet the increasing electricity demand in the selected areas more efficiently
 - > To upgrade the existing power infrastructure.

1.5-Scope of Work

- 5. There are 16 No. of GEPCO proposed projects under ADB Tranche-2. Its detail is here as under:
 - I. Construction of 05 No. New 132kV Transmission Lines
 - II. Construction of 04 No. New 132kV Grid Substations
 - III. Conversion of 02 No. Grid Substations from 66kV to 132kV along with associated 132kV Transmission Lines
 - IV. 05 No. Extensions/ Augmentations

Overall the proposed MFF has been designed to address both investment and institutional aspects in electric power sector. Development Objectives/ Project Purpose will be fully achieved after completion of the proposed Sub-projects.

1.6- Estimated Project Cost:

6. The estimated cost of the sub-projects has been determined. Its detail is here as under:-

Construction of 132kV Transmission Lines

Sr. No	Sub-projects	Estimated Cost Pak Rs. US\$			
		ran NS.			
1-	In& Out of existing 132kV Hafizabad Road Gujranwala Therisanci T/Line at 132kV Switchyard of 500kV Nokhar G/S	139.51 Million	1.33 Million		
2-	132kV Nokhar-Hafizabad-II Tr./Line (Alternate Feed for Hafizabad-II G/S)	250.52 Million	2.39 Million		
3-	132kV Sahuwala-Pasrur Transmission Line	383.49 Million	3.65 Million		
4-	In& Out for Hafizabad-II G/S from the existing Nokhar-Hafizabad T/Lin e (C.C.T No. 1)	139.43 Million	1.394 Million		
5-	In& Out for Garhi G/S from the proposed Nokhar- Therisanci T/Line (Feed for Garhi)	139.50 Million	1.327 Million		
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TOTAL ESTIMATED PROJECT COST	1052.45 Million	9.928 Million		

6.1 Construction of 132kV Grid Stations

Sr. No	Sub-Projects Name	Location	Estimated Cost In Pak. Rs.	US\$
1-	Construction of Khiali-Bypass G/S 132kV	GJRW.	244 Million	2.32 M
2-	Construction of Sheranwala- Bagh G/S 132Kv	GJRW.	302 Million	2.876 M
3-	Construction of Godhpur G/S 132kV and Sahuwala-Godhpur 132kV TL	Sialkot	341 Million	3.247 M
4-	Construction of New Daska G/S 132kV	Sialkot	263 Million	2.63 M
32.0	Total Estimated Cost	1150Million	10.849 M	

6.2 Conversion of 02 No. Grid Stations (from 66kV to 132kV)

Sr. No	Sub-projects Name	Location	Estimated Cost PAK		
1-	Conversion of Jalalpur-Nau G/S (from 66kV to 132kV) along with 132kV Hafizabad II_Kolu-Tarrar T/Line	Hafizabad	325.6 M	3.25M	
2-	Conversion of Kolu-Tarrar G/S (from 66kV to 132kV) along with 132kV Kolu-Tarrar Jalalpur-Nau T/Line	Hafizabad	393 M	3.93M	
	Total Estimated Cost		718.6	6.78M	

6.3 05 Nos. of Augmentation/ Extensions

Sr. No.	Sub-projects Name	Estimated Cost		
		PAK Rs.	US\$	
1-	Therisanci	78 Million	0.78	
2-	Sialkot Cantt	78 Million	0.78	
3-	Hafizabad Road Grw.	78 Million	0.78	
4-	Gujrat-1	78 Million	0.78	
5-	Gujranwala Cantt	78 Million	0.78	
	TOTAL SUB-PROJECT COST	390 Million	3.67 M	

TOTAL ESTIMATED PROJECT COST: 3311.6 Million Rs. (31.241 Million US\$)

1US\$ = 106 PAK. Rs.

- 1.7-Construction of New 132kV Grid Stations:- There are 04 No. New 132kV Grid Stations. The construction works of 03 No. of grid stations Sheranwala-Bagh, Khiayali Bypass, New Daska had been completed and energized. Testing and commissioning of 132kV Godhpur grid station is under progress.
- 1.8 Conversion of Grid Stations from 66kV to 132kV:- The conversion of 02 No. Grid Stations (i) Kolu Tarar (ii) Jalalpur_Nau from 66kV to 132kV along with the associated 132kV Transmission Lines had been completed and energized.
- 1.9 Construction of New 132kV Transmission Lines:- (i) In& Out for Hafizabad-II G/S from the existing Nokhar-Hafizabad T/line (C.C.T No. 1), (ii) In & Out for Garhi G/S from the proposed Nokhar-Therisanci T/Line (Feed for Garhi) and (iii) In & Out of existing 132kV Hafizabad Road Gujranwala Therisansi T/Line at 132kV Switchyard of 500kV Nokhar G/S had been completed and energized. (iv) The Tower stringing works of 132kV Nokhar-Hafizabad-II T/Line (Alternate feed for Hafizabab-II G/S) is under progress (on-going). (v) The civil works on 132kV Sahuwala—Pasrur T/Line will start after the completion of Nokhar Hafizabad T/Line.

Progress Status of Extensions/ Augmentation:-The works of 05 No. Extensions / Augmentations had been completed and energized.

(The execution and detail progress of civil works is provided at $\underline{\text{Annexure-}B \& C}$)

10.0 Changes in Project Organization and Environmental Management Team

7. Mr. Arshad Munir has taken over the charge of post Manager (Procurement) while the post of Manager (P.S&C) is lying vacant. Mr. Saleem Raza is working as acting Manager (Finance). Now, the posts of Managers (P.S&C) & Finance are lying vacant in GEPCO.

Relationship with Contractors, owner and lender etc.

GEPCO PMU team has excellent relationship with the Contractors, Owner, lender etc.

(Part II)-Environmental Monitoring

8. PMU, GEPCO conducted environment and safeguard site inspections at sub-projects in Gujranwala and Hafizabad. (GEPCO-draft notice on Non-compliances, Observations raised, recorded and reported to concerned Project Manager (Constructions) (Copies attached at Annexure-D)

Environmental Measurement/ Testing of Noise and Vibration, Water Quality, Air Quality and Flora/ Fauna Monitoring

9. Earlier, GEPCO had conducted laboratory test results of noise, water and air quality of the completed projects by M/s ABB, M/s Siemens and M/s ICC. The submitted environmental testing/ analysis reports of last quarter complied with NEQS.

<u>Recommendations required showing how any exceedences will be prevented in</u> <u>the future</u>

12. The Environmental Monitoring and Management Plan (EMMP) enlisted in EIA Reports have been made part of the bidding documents of civil works (Turnkey Project) and the contractors are made bound to quote specified amount (0.1 million US\$) has been reserved) in the BOQs for implementation of EMMP.

Part-III Environmental Management

- 13. The Environmental Monitoring& Management Plan (EM&MP) along with respective EIA/ IEE Reports of sub-projects have been made part of the bidding documents of civil works (turnkey projects). The Environment Management Plan (EMP) has been translated, typed/ edited into Urdu; approval received from the C.E.O (GEPCO) for its implementation at all sub-project sites as well as uploaded/ posted on GEPCO official website (www.GEPCO.com.pk/pmu). Assist. Manager (PMU) GEPCO conducted training program on EMP at all GEPCO sub-project sites.
- 14. The contractors have been made bound to quote specified amount (0.1M US\$ that has been allocated) in the BOQs for the implementation of EM&MP. Earlier, PMU GEPCO asked all 03 Contractors to share with GEPCO all HSE Budget expenditures/spent till to date. In compliance M/s ABB, Siemens & ICC had all shared detail report on HSE implementation at work sites.

Site Inspections at Sub-project sites

15. PMU, GEPCO conducted environment and safeguard inspections at sub-project sites in Gujranwala, Sialkot and Hafizabad.

Non-Compliance Notices-Summaries the details on the number of notices aiven out and the issues covered Summaries the ranking of issues

16. The Detail of raised Non-compliance, Observations with corrective actions request were sent to all Project Manager (Construction) for compliance. (Copy attached at Annexure-D)

Corrective Action Plans-Report on timeliness of preparation and Completion

17. The pointed Non-Conformities/ Observations have been recorded and reported to all concern Project Manager's Construction for compliance. All corrective actions have been taken as desired. (Corrective actions taken enclosed at Annexure-E)

<u>Consultation and Complaints - Report on any consultation undertaken and list</u> <u>any complaints received</u>

- 18. Environmental & Social Complaint Register both in English and Urdu versions have already been communicated and implemented by the Project Director (GSC), XENs TLC/ T&G at respective project sites. So far, no affected person/ household has approached GEPCO Grievance Redressal Committee (GRC) and logged/ filed written complaint in PMU/ GSC Office.
- 19. Earlier, PMU GEPCO has received the complaint of Mr. Allah Ditta complaint directly through ADB and its stay order notice from court. There are acute ROW issues at Tower Location No. 03. The aforesaid matter in detail has already been communicated to ADB by the GEPCO authority. The Members of GEPCO Grievance Redressal Committee (GRC) committee has conducted numerous consultation/negotiation sessions with complainants. During these meetings, the complainant was asked to approach GEPCO authority and submit his grievance/ concerns/ complaints in written to which he did not respond as yet and continues to settle the matter in court.

- 20. The ADB agrees that as the matter is in the honorable civil court, so the decision will be issued by the court. (ADB reply to Whiteways *Attached at Annexure-G*). The stay order of Mr. Allah Ditta had already been dismissed/ vacated by the civil court of Samberial on 17-03-2016. After vacation of stay order by the court several meetings were conducted after receiving emails from ADB for settlements. Some of these meetings have also been attended by Social Safeguard FMC Consultant M/s SMEC. The last session to settle the grievances/complaints was held on dated: 16-06-16. The complainants agreed during consultation that they will submit written complaints/application to the GEPCO Authority, which is still being awaited. Detail minutes of meeting on dated: 16.06.2016 attached at *Annexure-H*.
- 21. On the other side Mr. Mushtaq also had taken stay order from court. The nature of complaint is that if the GEPCO install pole at 16 feet clearance from Mr. Allah Ditta's building, then the GEPCO have to purchase his 5 Marla's land on permanent basis. But as per existing rule and regulations (Telegraph Act 1885, Land Acquisition Act 1894) GEPCO GRC Committee do not have any mandate to purchase land on permanent basis for construction of new 132KV transmission lines. The GEPCO authority intends to remain stick to their revised route map/ plan, because currently GEPCO did not have any other alternate route and waiting for court decision to vacate the stay order in case of Mr. Mushtaq land owner.
- 21. Awareness sessions for compensation and grievance Redressal were conducted at different location of 132kV Transmission lines for the timely collection of required ownership documents and compensation of damages to minimize the right of way issues. These awareness sessions conducting during foundation & erection works. Because the affectees were reluctant/ avoid providing/ submitting their ownership (Fard / gardawari/ land ownership) documents required for compensation as per GEPCO SOP (Kharaba Compensation). The sessions were conducted the Lambardar of the villages and some affectees.
- 22. Earlier, PMU GEPCO has submitted revised LARP of Sahuwala-Godhpur 132kV transmission line to ADB and received comments on it. Now, the revision/updating of 01 LARP (Land Acquisition & Resettlement Plan) for Construction of Godhpur 132kV grid station and Sahuwala-Godhpur 132 kV transmission line is under process. The LARP has to revise due to change in approved original route/ T.line profile of NTDC. The revised LARP will be submitted to ADB by 16th of August, 2016. The changes in original route profile were made in transmission line section at tower location no. 01 to 07 (section of T/line) due to acute ROW issue and land purchased by Management of Sialkot Rental Power Plant for construction of power house.

Implementation Report on EIA/IEE Mitigation Requirements

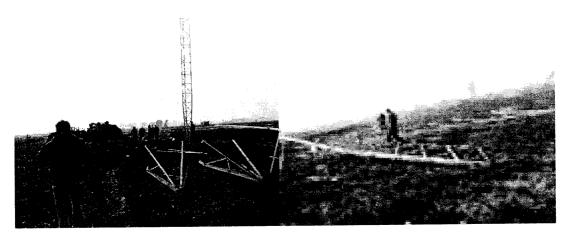
Reference	Requirement	Action to date	Action Required/ Comment
Compliance of EIA/ IEE Report during Execution of Project Civil Work	Inclusion of EIA/ IEE Report in Bidding DOC's	EIA/ IEE Reports along with EM&MP have been included/ made part of the Bidding DOC's	DONE
Compliance of Environment Monitoring & Management Plan during execution of Project Civil Work	Inclusion of EM&MP in Bidding DOC's	EM&MP draft Docs have been included/ made part of the Bidding DOC's	DONE
Urdu translation, typing /editing of EMP into Urdu and its posting/ uploading at GEPCO official website	Inclusion of EMP in EIA/IEE Reports as well as in Bidding DOC's	NOC's/ Environmental Approval received by GEPCO from EPA, Lahore	DONE
0.1 Million Budget for EM&MP Implementation	Allocation of budget by Contractor	Rs. 0.1 Million US\$ has been allocated for implementation of aforesaid plan	DONE
Implementation/ Internal Monitoring of EM&MP at all sub-project sites	Capacity building programs on EM&MP at all sub-project sites	Capacity building/ training conducted by GEPCO at all sub- project sites	DONE
Compliance of site restoration/ landscaping works at completed substations	Allocation & approval of budget amounting to Rs. 1.6 Million by PMU to O/o P.D (GSC) GEPCO	Work order issued by O/o P.D (GSC) to contractor	DONE at 04 No. G.S

Annexure- A

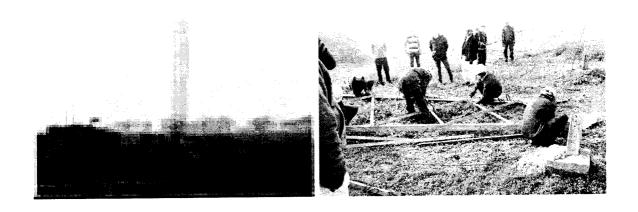
<u>UPDATED PMU ORGANOGRAM</u>

ANNEXURE-B

Civil Work Activities



132kV Nokhar–Hafizabad T/Line (Alternate feed for Hafizabad-II GS)



Erection work at 132 kV Nokhar-Hafizabad-II T/line

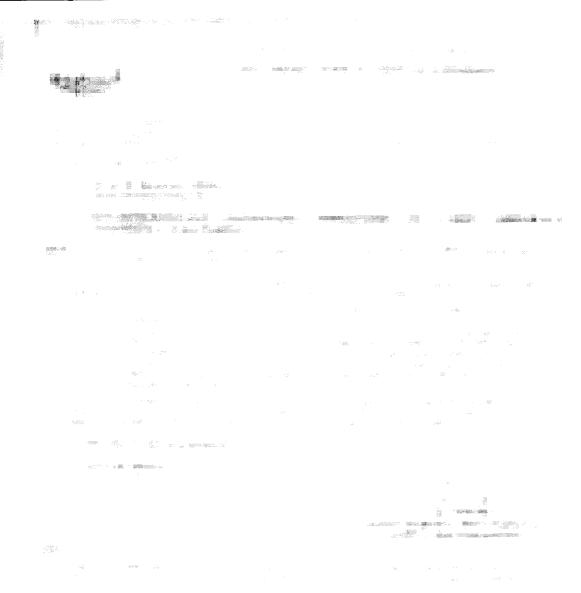
ANNEXURE-C

Sr. No	Name of Tr./Lines	Contract No.	Length (Km)	No. of Towers	No. of Foundations Completed	No. of Erected Towers	Length of Stringing completed (Km)	Progress Status (%)	Date of Completion
1	132KV Hafizabad -II Kolu- Tarar T/L	ADB-2727- GEPCO-05	9.7	47	47	47	9.7	100%	Energized on 17-04-2014
2	132KV Kolu Tarar-Jalalpur Nau	-do-	16.4	62	62	62	16.4	100%	Energized on 15-05-2014
3	Sahuwala-Godhpur 132 KV T/L	ADB-2727- GEPCO-03	9.7	54	51	47	8.0	80%	ROW
4	In & Out for Hafizabad-II GS from the existing Nokhar Hafizabad T/L (C.C.T No.1) (D)	ADB-2727- GEPCO-06	15.5	60	60	60	15.5	100%	Energized on 26-02-2014
5	In & Out for Garhi GS from the proposed Nokhar- Therisansi T/L (Feed for Garhi) (E)	-do-	15.6	77	77	77	15.6	100%	Energized on 28-08-2014
6	132 KV Nokhar-Hafizabad-II T/L (Alternate Feed for Hafizabad-II GS) (C)	-do-	28.7	144	144	144	27.5	95%	Stringing works under progress
7	132KV Sahuwala - Pasrur Transmission Line (B)	-do-	41.2	212	175	Nill	Nill	60%	ROW
8	In & Out of existing 132KV Hafizabad Rd. Gujranwala Therisansi T/L at 132 KV Switchyard of 500KV Nokhar (A)	-do-	26.7	114	114	114	26.7	100%	Energized on 30-07-201:

Progress of 132kV New Grid Stations Under ADB Funded Tranche # 2							
Sr.#	Name of GS	Contract No.	Name of Contractor/Sub- Contractor	Civil & Electrical Work	Date of Completion		
1	Construction of Godhpur 132 KV GS	ADB-2727- GEPCO-03	SIEMENS/ PENSIC	100%	Testing and Commissioning		
2	Construction of New Daska 132 KV GS	-do-	-do-	100%	Energized on 28-11-2014		
3	Construction of Khiali-Bypass 132 KV Grid Station	ADB-2727- GEPCO-04	ABB/ NETRACON	100%	Energized on 19-10-2015		
4	Construction of Sheranwala Bagh 132 KV Grid Station	-do-	-do-	100%	Energized on 14-08-2015		

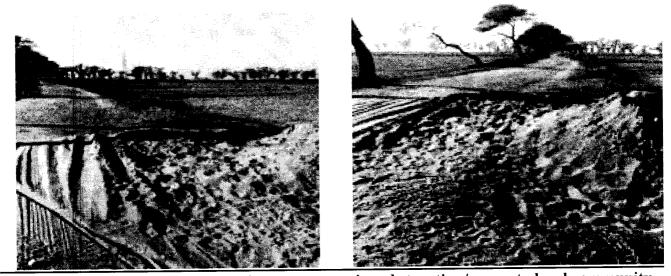
ANNEXURE-D

Non-Compliance/ Observations





Improper backfilling at work site
132kV GODHPUR T/LINE Sialkot



Construction material found at main passage causing obstruction/access to local community



GUJRANWALA ELECTRIC POWER COMPANY LIMITED

565-A MODEL TOWN G.T ROAD GUJRANWALA

Phone # 085-9200836 PBX # 085-9200819-2 FAX # 085-9200894 Memo No: 27-7//M4 OFFICE OF THE
CHIEF EXECUTIVE OFFICER
GEPCO, GUJRANWALA
Dated: // -02-2016

The P.D (GSC)
GEPCO, Gujranwala

Subject PROVISION OF SITE RESTORATION, LANDSCAPING & PLANTATION Work's at 132kV Khiali-Bypass & Godhpur sub-stations Under ADB Funded PDEIP MEE TRANCHE 2

Ref: In continuation of this office memo No. 7748-49/PMU on dated. 12-10-2015;

It is kindly apprised that PMU GEPCO has already issued completion certificate of site restoration/landscaping works executed and completed at 04 No. 132kV kelutariat, Jadalpur-nau, Sheranwala bagh and New Daska sub-stations. Now, the remaining aforesaid tasks of earth filling, backfilling & site restoration/plantation at 02 No. 132kV substations Khiali-bypass and Godhpur are required to be completed.

It is therefore requested to complete the pending landscaping works especially at 132kV Khali-bypass and Godhpur sub-stations at the earliest. Its completion certificate will be issued upon satisfactory completion of works.

Chiaf Engineer (Development)
PMU GEPCO, Gujranwala

CC

🍂 1 Environmental Specialist [ADB], for her kind information picase

ANNEXURE-E

Corrective Actions taken against recorded & reported Non-Compliance/ Observations at sub-project sites

GUIRANWALA ELECTRIC POWER COMPANY, LIMITED.

Ph# 055-3412141 TAX#055-3412170

OFFICE OF THE PROJECT DIRECTOR GSC, GEPCO, 132 KV HARIZABAD RD GRED STAHON, NEAR AWAN CHOWK Gujranwala.

Memo (26 2) (PD(GSC)/

Dated:-///2012

Mief Engineer (Development) GEPCO, Guranwala.

SUB- PROVISION OF SITE RESTORATION, LANDSCAPING & PLANTATION WORK'S AT 132 KV KHIALI-BYEPASS & GODHPUR SUB STATIONS UNDER ADB FUNDED PDFIP MFF TRANCHE-2.

Your letter No.270-71 dated 11.02.2016.

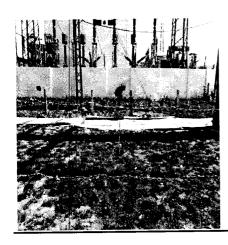
It is submitted that 132 KV Grid Station Godhpur is not energized yet and construction of pully for main approach is under process, as such site restoration work cannot be carried out. For earth filling, backfilling & site restoration plantation, the XEN T&G has been instructed to do the

(MUHAMMAD RIAZ) PROJECT DIRECTOR (GSC) GEPCO, GURANWALA

1. NEN 1&G Division GSC GI-PCO, along with copy of above referred letter of C.F. (Development) GEPCO for necessary action.

ANNEXURE-F

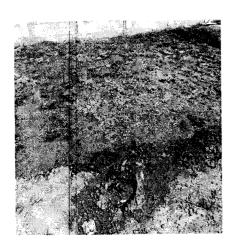
Site Restoration & Landscaping works LANDSCAPING PROGRESS OF TRANCHE-2 GS







132kV Sheranwala Bagh GS



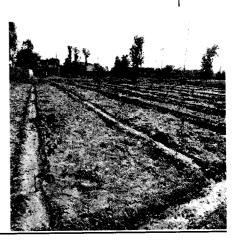




132kV NEW DASKA GS







132kV JALALPUR-NAU GS





132kV KOLU-TARRAR GS