

Due Diligence Report

Laying of 132 kV D/C Copper Cable b/w 220 kV Shalamar – 132 kV Shalamar – II Grid Stations

December 2016

PAK: MFF – Power Distribution 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.

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Re: Fw: DDRs of Punjab university and Underground cable ofShalamar 

Jose Tiburcio Nicolas to: Liaqat Ali

15/12/2016 06:36 AM

Cc: Ehtesham Z. Khattak, Zhang Lei

Dear Liaqat sb,

I have reviewed both DDRs. Both reports confirmed that there will be no IR impacts from the two proposed subprojects and appropriate consultations have been conducted with key stakeholders. I endorse acceptance of these documents and uploading to the ADB website for disclosure. I also endorse clearance of the two subprojects with regard to social safeguards.

Regards,

Tito S. Nicolas

Senior Social Development Specialist (Safeguards)
Pakistan Resident Mission
North Wing Level 8, Serena Office Complex
Khayaban-e-Suhrawardy, G-5, Islamabad, Pakistan
email: jnicolas@adb.org
+92 51 2600351-69/ 208 7300 ext 219
+92 305 9419662 (mobile)



Liaqat Ali

Dear Tito: For your review and comments please.

06/12/2016 03:53:29 PM

From: Liaqat Ali/PRM/ADB
To: Jose Tiburcio Nicolas/CWRD/ADB@ADB
Cc: Zhang Lei/CWRD/ADB@ADB, Ehtesham Z. Khattak/PRM/ADB@ADB
Date: 06/12/2016 03:53 PM
Subject: Fw: DDRs of Punjab university and Underground cable ofShalamar

Dear Tito:

For your review and comments please.

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.

----- Forwarded by Liaqat Ali/PRM/ADB on 06/12/2016 03:52 PM -----

From: Muhammad Usman <uniqueromi@yahoo.com>
To: Liyaqat Ali <lali@adb.org>
Cc: "zlei@adb.org" <zlei@adb.org>
Date: 06/12/2016 03:45 PM
Subject: Fw: DDRs of Punjab university and Underground cable ofShalamar

Respected Sir
As desired please
Regards
Muhammad Usman
Deputy Manager Environment LESCO

Sent from Yahoo Mail on Android

On Tue, Dec 6, 2016 at 3:29 PM, Muhammad Usman
<uniqueromi@yahoo.com> wrote:

Respected sir

Please find enclosed herewith the DDRs of Punjab university and Underground cable of 220 Shalamar GridStation to Shalamar II after incorporate the necessary changes suggested by Ms SMEC for your kind perusal please

Regards
Muhammad Usman



Deputy Manager Environment LESCO

DDR Punjab University GIS (1).docx DDR Shalamar.docx

Islamic Republic of Pakistan

In Association with

Asian Development Bank (ADB)



Pakistan Power Distribution Enhancement MFF Project

Tranche III (Saving Component)

Loan No.2972-PAK

**Laying of 132 kV D/C Copper Cable b/w 220 kV Shalamar– 132 kV
Shalamar - II Grid Stations**

Due Diligence Report

December 2016

Lahore Electric Supply Company

(LESCO)

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List of Abbreviations

ADB	Asian Development Bank
AP	Affected Persons
DISCOs	Distribution Companies
D/C	Double Circuit
EA	Executing Agency
LESCO	Lahore Electric Supply Company
MFF	Multi-tranche Financing Facility
MoWP	Ministry of Water & Power
PEPCO	Pakistan Electric Power Company
ROW	Right of Way
TEPA	Traffic Engineering Planning Agency
LDA	Lahore Development Authority
WAPDA	Water and power Development Authority
WASA	Water and Sanitation Agency

Due Diligence Report

Laying of 132 kV D/C Copper Cable b/w Shalamar 220 kV – 132 kV Shalamar - II Grid Stations

1. PROJECT OVERVIEW

1. The Government of Pakistan (the Government) has requested the Asian Development Bank (ADB) to support the Power Distribution Enhancement Investment Program (the Investment Program) and provide financing through a multi-tranche financing facility (MFF) for \$810 million over 10 years. The Investment Program is designed to provide grid-connected customers with adequate and reliable supply of electricity. The rehabilitation, augmentation, and expansion of the eight power Distribution Companies (DISCOs) will increase the reliability of supply to residential, agricultural, commercial, and industrial customers in Pakistan. A reliable electricity supply will lead to social and economic benefits and improved conditions for schools, hospitals, and other social services.
2. This Investment Program will (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) commercialize DISCO operations. Specifically, (i) DISCOs will adhere to regulatory requirements and comply with regulated security standards; (ii) about 12,000 gigawatt-hours (GWh) of additional energy is forecast to be supplied through the national grid annually; (iii) the system will be upgraded to meet peak demand, with electricity outages significantly reduced; and (iv) 30 million additional people will have access to electricity from the national grid by 2018
3. Pakistan Electric Power Company (PEPCO) has been nominated by Ministry of Water and Power (MOWP) to act as the Executing Agency (EA) with each DISCO being the Implementing Agency (IA) for work in its own area. PEPCO's role in the processing and implementation of the investment program is that of a coordinator.

4. Lahore Electric Supply Company (LESCO) implemented the Tranche-III program which included construction of 04 new grid stations, four (4) extensions and thirteen (13) augmentation sub-projects, at overloaded substations. Now in order to utilize the savings of approximately US\$2.0 Million from T-III Loan No.2972-Pak, LESCO has included this subproject in the scope of work as Saving Component (T-III) for ADB's financing.
5. The said subproject comprises of Laying of 132 kV D/C Power Cable (Copper) b/w 220kV Shalamar – 132 kV Shalamar II Grid Stations. Shalamar and is feeding important densely populated areas of old Lahore including Bhagwanpura, Singhpura, Shalamar Link Road, Darogawal etc.

6. Background

7. In order to strengthen 132 kV system and dispersal of power from 220 kV Shalamar GIS grid station LESCO has proposed interconnection between 220 kV Shalamar – 132 kV Shalamar II grid station through 132 kV D/C underground Power Cable (Copper) of approximately 500 m length. Moreover, it will be a feeding source for 132 kV UET substation under construction for providing uninterrupted power supply for Orange Line Train Project which is a mega project in the city.
8. Therefore, laying of 132 kV copper cable b/w 220 kV Shalamar -132 kV Shalamar is essential and unavoidable in order to ensure continuous electricity supply for Orange Line Train and to give relief and strengthen the distribution system.

9. The Subproject

10. The SP covers only the laying of 132 kV D/C underground power cable (copper cable) between 220 kV Shalamar GIS – 132 kV Shalamar II Grid station. The route for laying of new underground cable will be followed starting from Shalamar –II Grid station, passing through the premises of grid station, adjacent WAPDA Base Workshop for automobiles and will end in yard of 220 kV GIS Grid Station. The whole route exists within boundary walls of 132 kV Shalamar G/Station, Base workshop WAPDA and 220 kV Shalamar Grid station so no external people or

community will be affected. Length of route will be approximately 300m. A trench for laying of cable has already been constructed. Map is given in Annexure A.

11. This route is a tentative route and will be finalized once the contractor will be mobilized to conduct survey and finalize the design. Photographs are given in **Annexure B**.

12. Potential Social and Resettlement Impacts

13. No purchase of land and dislocation of people is involved for this subproject as underground cable will be laid down within the boundary wall of LESCO, NTDC and WAPDA premises.
14. There are no directly or indirectly affected persons (APs) and no compensation payment is involved.

15. Due Diligence

16. As there are no directly/indirectly affected persons (APs) and no compensation payment is involved, the preparation of a LARP for this SP is not required and hence this brief due diligence report has been prepared to documentary requirements of both the LESCO and ADB.

17. Community Consultations

18. Consultation with the staff of 220 kV Shalamar Grid Station, 132 kV Shalamar Grid Station and WAPDA Base Workshop for automobiles was carried out on site. Detail regarding consultation is given in **Annexure A**. All the relevant staff and officers showed their consent for this project as already 220 kV grid station is connected to Shalamr II grid station and underground power cable

will provide another feeding source to Shalamar grid station for further dispersal of electricity. However, all the relevant staff of LESCO and WAPDA Base workshop showed their concern regarding design of the project and urged for direct laying of cable underground instead of using of already constructed trench for better safety and maintenance of cable.

Annexure A

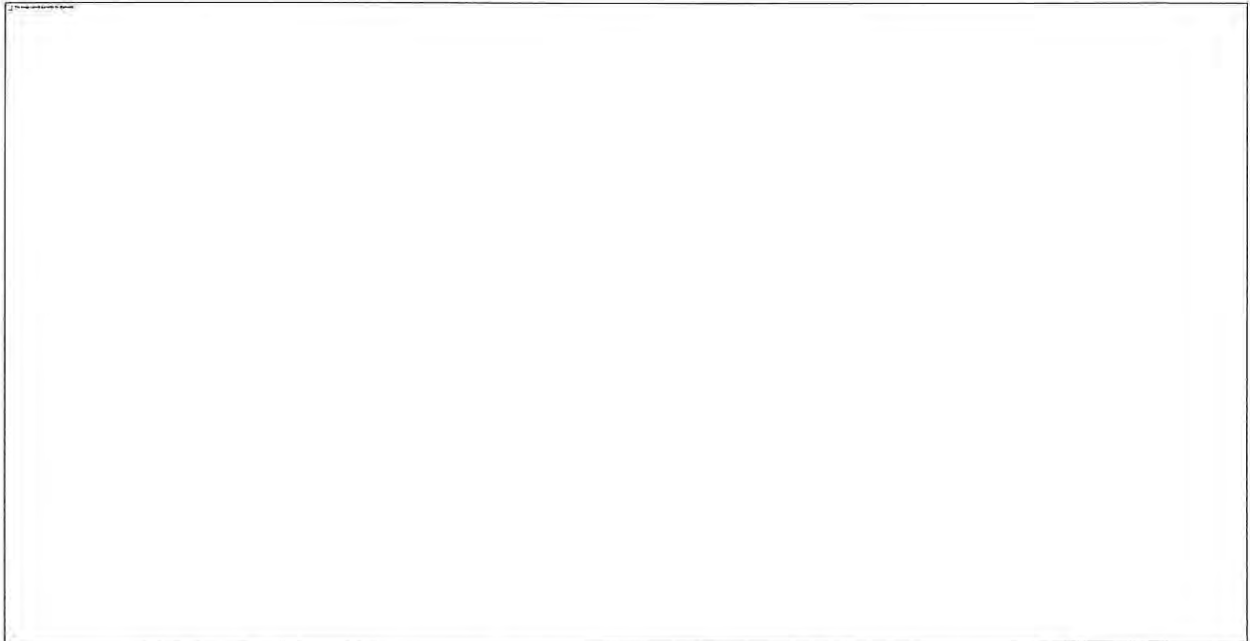
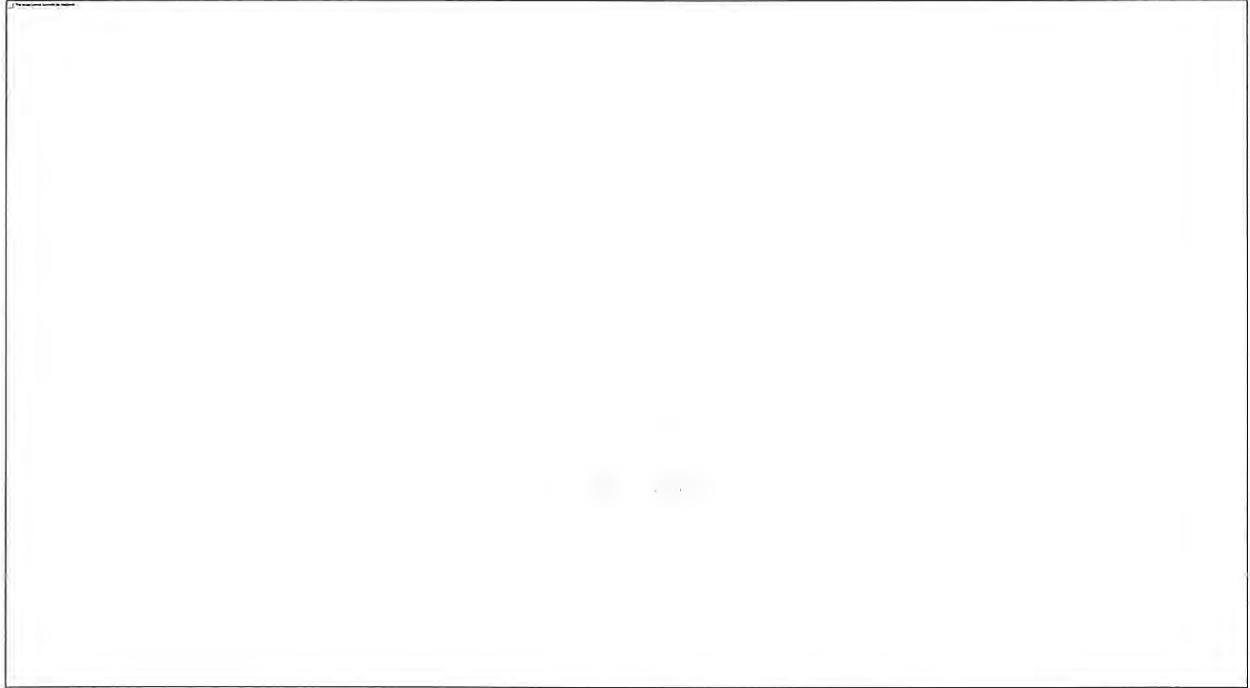
Consultation held on September 23, 2016

List of Participants in Consultation Sessions

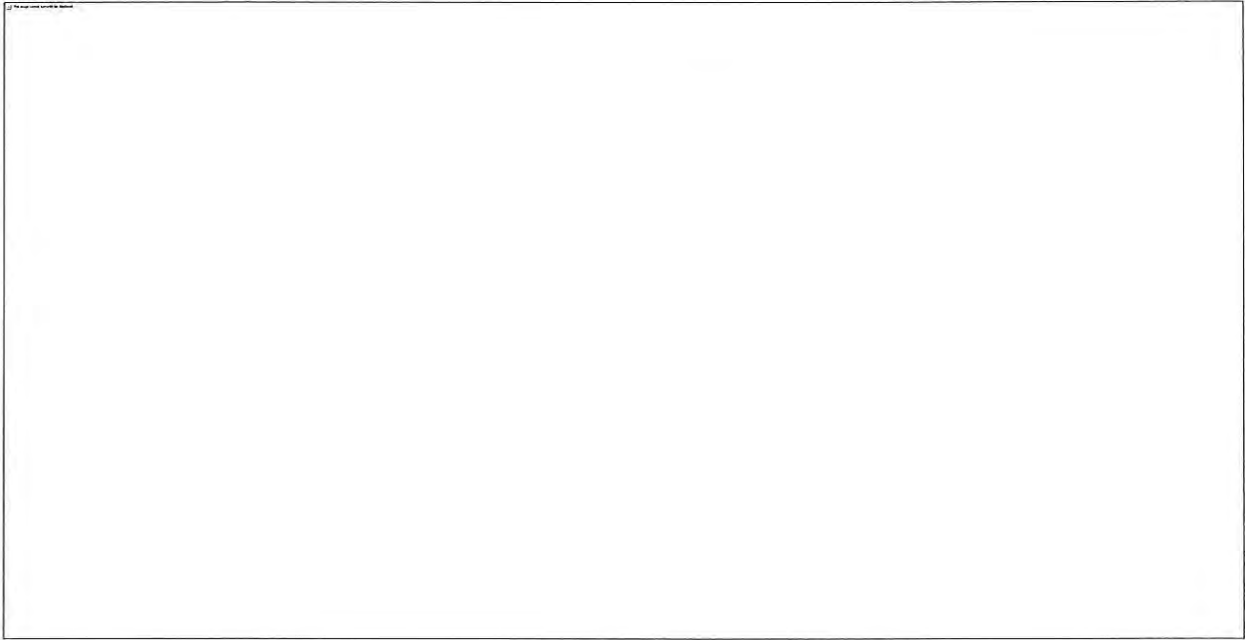
Sr.No.	Name of participants	Address
1	Mr.AkhterRiaz AET Shalamar	Shalamr-II Grid Station
2	Mr.Afzaal	Shalamr-II Grid Station
3	Tariq Masood Malik Manager	WAPDA Base Workshop
4	Tahir JavidAsstt.Manager	WAPDA Base Workshop
5	Farooq Hassan Asstt.Manager (O&M) NTDC	220 kV GIS Shalamar Grid Station
6	Javaid Bhullar Foreman	220 kV GIS Shalamar Grid Station

Annexure B

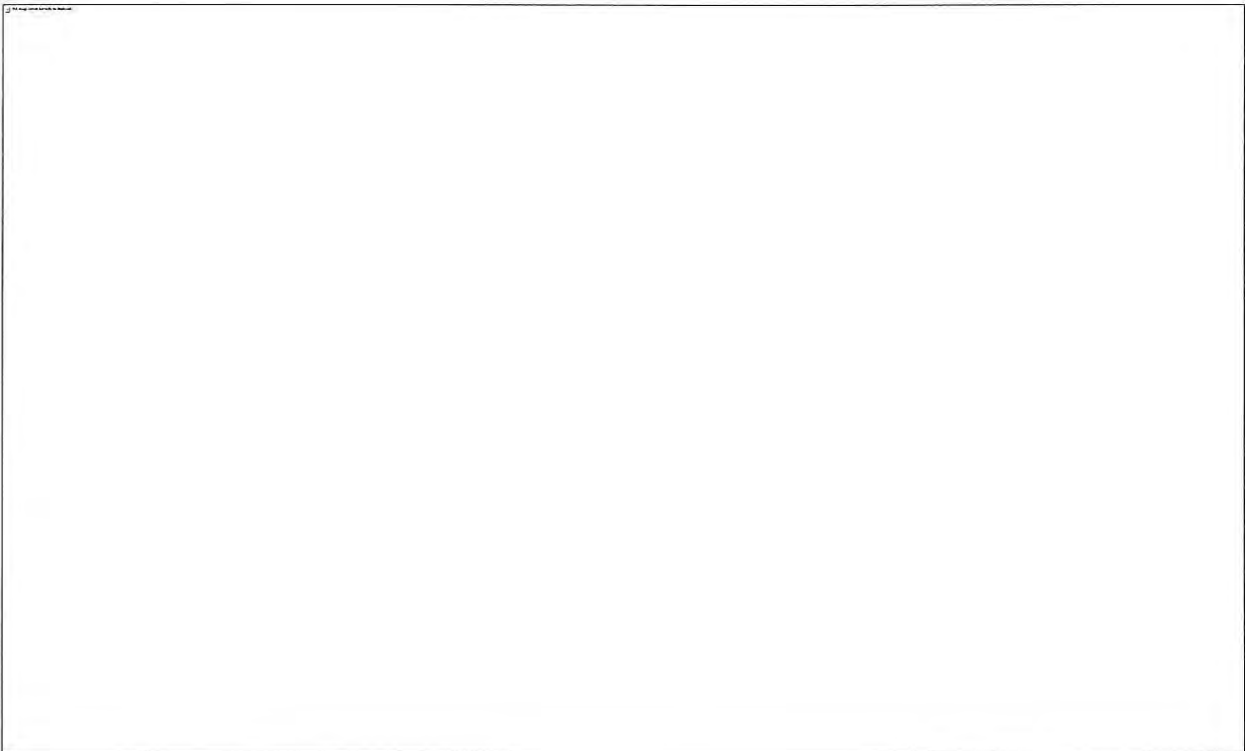
Photographs of Route of 132 kV Underground Power Cable b/w 220 kV Shalamar-132 kV Shalamar II Grid Station

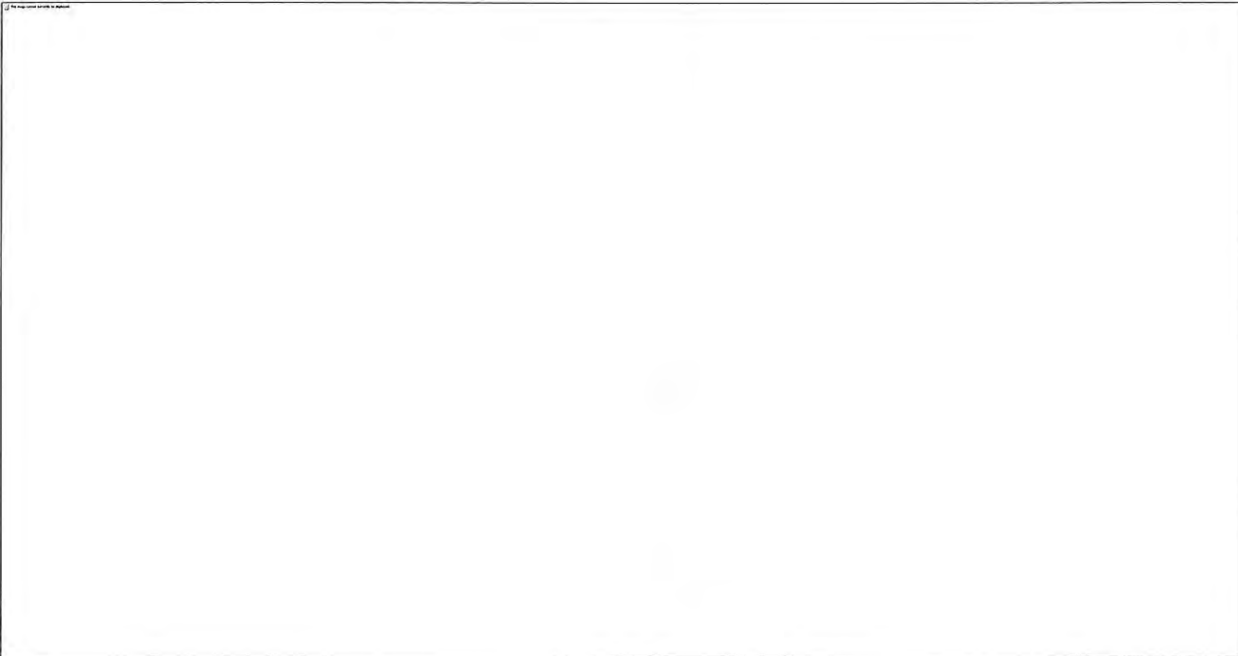
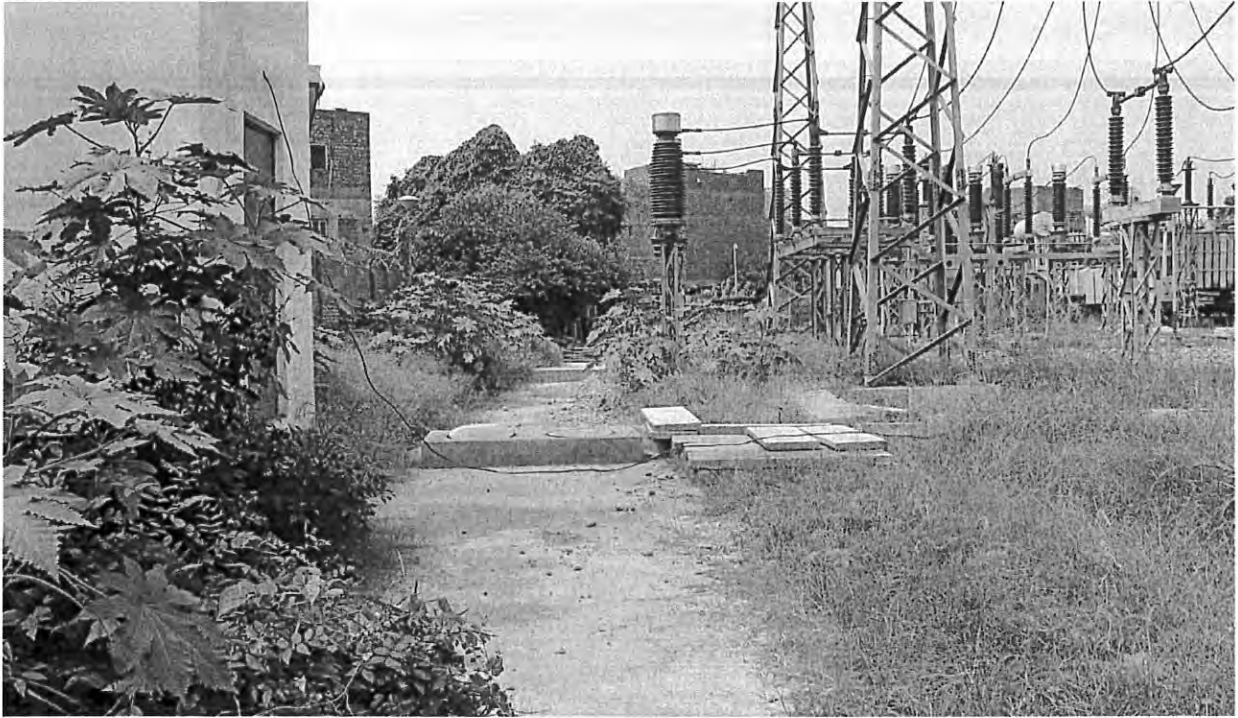


Behind Control Room of Shalamar II Grid station where Route starts for U/G Cable

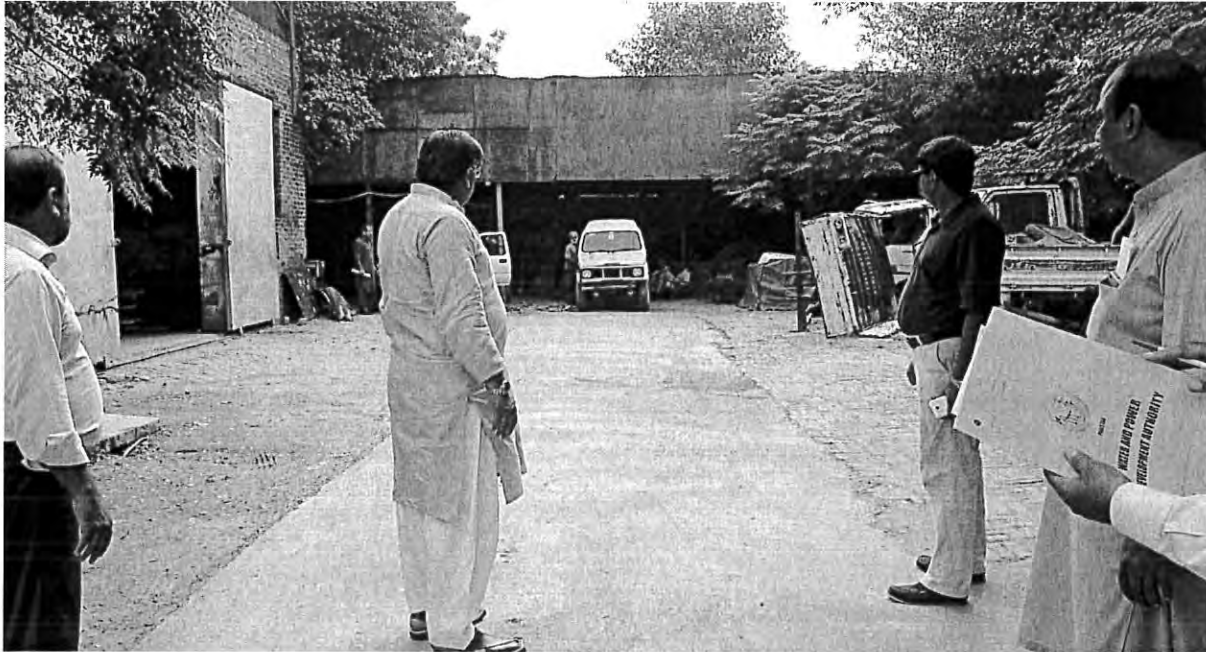


Shalamar II Grid Station









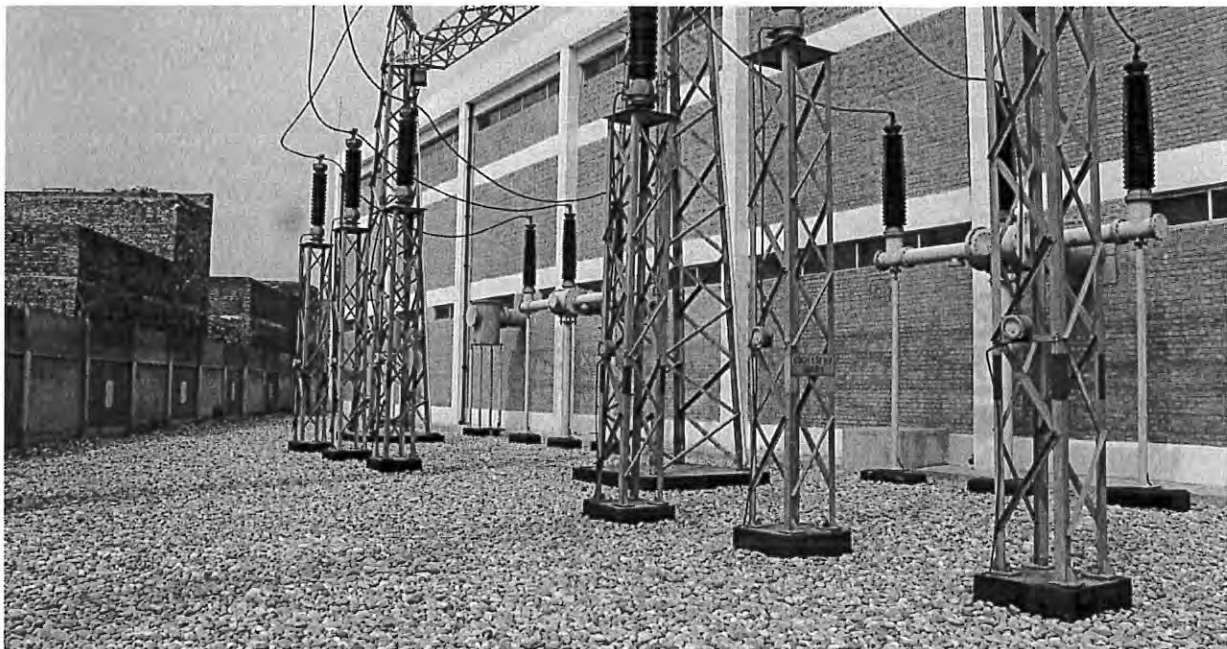
Base Workshop where cable route will enter into Base workshop premises



The wall of 220 kV Grid Station shown at far end where route will enter into 220 kV Shalamar G/Station



Wall on other side where Route from Base workshop will enter into 220 kV GIS Shalamar



Yard of 220 KV Grid Station where u/g cable will end

Photographs of Consultation

