

# Due Diligence Report

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Laying of 132 kV Underground Copper Cable b/w 132 kV Qartaba Grid Station – Mcleod Road Grid Station

December 2016

**PAK: MFF – Power Distribution Enhancement  
Investment Program (Tranche 4)**

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: DDR of Qurtaba-MacloadGrid cable**

Jose Tiburcio Nicolas to: Liaqat Ali

15/12/2016 06:58 AM

Cc: Ehtesham Z. Khattak, Zhang Lei, Nurlan Djenchuraev, Safia Shafiq

Dear Liaqat sb,

I have reviewed the social DDR for the proposed laying of a 132 kV underground copper between Qartaba GS and Mclead Road GS. The report confirms that the subproject will not involve land acquisition or resettlement impacts. People interviewed welcome the subproject but expressed concern on the potential nuisance/disturbance to their business activities during construction and requested for the fast and timely completion of works. I endorse acceptance and disclosure of this report to the ADB website. I also endorse clearance of the subproject with regard to social safeguards. I am copying my environment colleagues as some mitigation is needed on traffic to ensure that this is reflected in the IEE/EMP.

Regards,

Tito S. Nicolas

Senior Social Development Specialist (Safeguards)  
Pakistan Resident Mission  
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Liaqat Ali

Dear Tito: Another DDR for your review, comme...

14/12/2016 11:00:42 AM

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: 14/12/2016 11:00 AM  
Subject: Fw: DDR of Qurtaba-MacloadGrid cable

Dear Tito:

Another DDR for your review, comments and/or clearance for disclosure.

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 14/12/2016 10:59 AM -----

From: Muhammad Usman <uniqueromi@yahoo.com>  
To: "jnicolas@adb.org" <jnicolas@adb.org>  
Cc: "zlei@adb.org" <zlei@adb.org>

Date: 14/12/2016 10:49 AM  
Subject: Fw: DDR of Qurtaba-MacloadGrid cable

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Respected sir

Please find enclosed herewith the DDR of underground cable of Qurtaba -Macload road Grid station duly reviewed by Ms SMEC for your kind perusal please

Regards

Muhammad Usman



Deputy Manager Environment LESCO DDR Qartba.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
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 Power Cable (Copper) b/w 132 kV Qartaba – Mcleod Road Grid Stations**

#### **A. 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-4 program which included thirty five (35) extension and thirty two (32) augmentation sub-projects, at overloaded substations. Now in order to utilize the savings from T-IV Loan No.3096-Pak, LESCO has included this subproject in the scope of work as Saving Component (T-IV) for ADB's financing.
5. The said subproject comprises of Laying of 132 kV Power Cable (Copper) b/w Qartaba - Mcleod Road Grid Stations. Mcleod Road Grid Station and Qartaba grid stations are very important grid stations and play a vital role in providing electricity to historically and commercially important areas of central Lahore. Mcleod Road and Qartaba grid stations



are among the oldest grid stations constructed about 35 years ago and are feeding important areas and commercial hub of central Lahore including Shahra- e - Quaid-e-Azam (Mall Road), Beaden Road, Nisbat Road, Anarkali Market, Mayo Hospital, Aitchison college, Queens Road, Mozang, Samanabad, old Anarkali, jail road, Bhawalpur road GOR, Punch road, Temple road etc.

## **B. Background**

6. Mcleod Road Grid Station is presently connected to Power system through a single source of Mochi Gate Grid Station via underground 132 kV cable. In case of any power failure at Mochi Gate Grid Station, the whole area of old city of Lahore including very important government and private offices/departments, educational institutes and hospital etc which are being fed by Mcleod Road grid station will also be drowned in darkness and this situation will put the LESCO's consumers in a vulnerable condition.
7. In order to provide a second source for uninterrupted supply of electricity, Mcleod Road grid station was connected to Sunny View Grid station via 132 kV underground Aluminum cable. However, this 132 kV underground circuit/cable is under fault since long and cannot be repaired anymore to provide continuous supply to Mcleod Road Grid Station. Therefore, laying of 132 kV copper cable b/w Qartaba – Mcleod road grid stations is essential and unavoidable in order to ensure continuous electricity supply for this commercially and geographically significant area of Lahore city. Moreover, Qartaba grid stations is also connected to power system through Bund Road grid station and its second source from 132 kV Kot Lakhpat grid station is already overloaded and the construction of underground cable between Mcleod road-Qartaba will not only relieve existing transmission network but will also provide an alternate source to Qartaba grid station which is providing electricity to very important offices, markets and hospitals etc.

## **C. The Subproject**

8. The SP covers only the laying of 3.19 Km long 132 kV underground power cable (copper cable) between Mcleod Road grid station and Qartaba grid station. The route for laying of new underground cable will be followed starting from Mcleod Road Grid Station, passing through Mcleod road, Cooper Road, Hall road, Temple road, Qartaba Chowk, Bhawalpur road and will then enter into Qartaba Grid Station. There are shops, restaurants, Government Offices, educational institutes, hospitals and other commercial and trade centers along the proposed route. Length of route will be approximately 3.19 km. Map is given in Annexure A.
9. The route proposed for underground cable is the same 3.19 km route of existing underground cable from 132 kV Qartaba- Mcleod Road grid station which has been defective and the route will be finalized once the contractor will be mobilized to conduct survey and finalize the design.

## **D. Potential Social and Resettlement Impacts**

10. No purchase of land and dislocation of people is involved for this subproject as underground cable will be laid down using the centre of roads throughout the tentative route between two grid stations. ROW will be provided by TEPA and LDA. LESCO will obtain NOC from TEPA, LDA, WAPDA, WASA and other relevant government agencies through contractor for construction work.
11. There are no directly affected persons (APs) and no compensation payment is involved. However, traffic will be disrupted temporarily during construction activity and in order to mitigate it, Traffic Management Plan (TMP) will be prepared and implemented by the contractor in liaison with TEPA after finalization of route for underground cable.

## **E. Due Diligence**

12. As there are no directly 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. However, it is suggested that in case of any unforeseen loss of any business and earning of small stall holders /encroachers/squatters along the route, cash compensation for the period of business interruption in case of temporary loss of business/earnings will be paid to the affected persons (APs) by LESCO.

## **F. Community Consultations**

13. LESCO E&S Team approached and contacted different stakeholders present along the proposed route of 132 kV underground Power Cable between Mcleod Road and Qartaba grid station for public consultation. The route passes from commercial hub of the city and is densely populated and congested. Two consultation meetings were also carried out in the offices of Market Associations of Abid Market and Hall Road. Representatives of businessmen and traders of both markets including President, Chairman, General Secretary of Traders Association met with E&S PMU team and welcomed the project and appreciated this initiative of LESCO to improve the system through underground system.
14. During consultation, representatives of traders associations, workers and owners of commercial centers, shopkeepers and representatives of government agencies, offices and schools and hospitals welcomed this project in order to get relief from low voltage and forced load shedding problems and also showed their consent for underground laying of cables and demanded LESCO to convert other overhead 132 kV Transmission Lines also into underground power cables system in densely populated areas of Lahore.
15. All the respondents were of the view that the laying of cable will disturb their movement temporarily but the project will be beneficial in long run. However, representatives of

Traders Associations of Abid Market and Hall Road Market showed their concern regarding fast and timely completion of the project before peak season. Their reservation was that construction activity during peak season will cause nuisance to customers and road users and may eventually affect business activity. Moreover, representatives of Hall Road Traders Association also showed their concern that LESCO should take steps to rehabilitate the old network of 11 kV wires on Hall road by replacing and repairing of wires although it has nothing to do with the said subproject but LESCO's initiative in this regard will be highly appreciated.

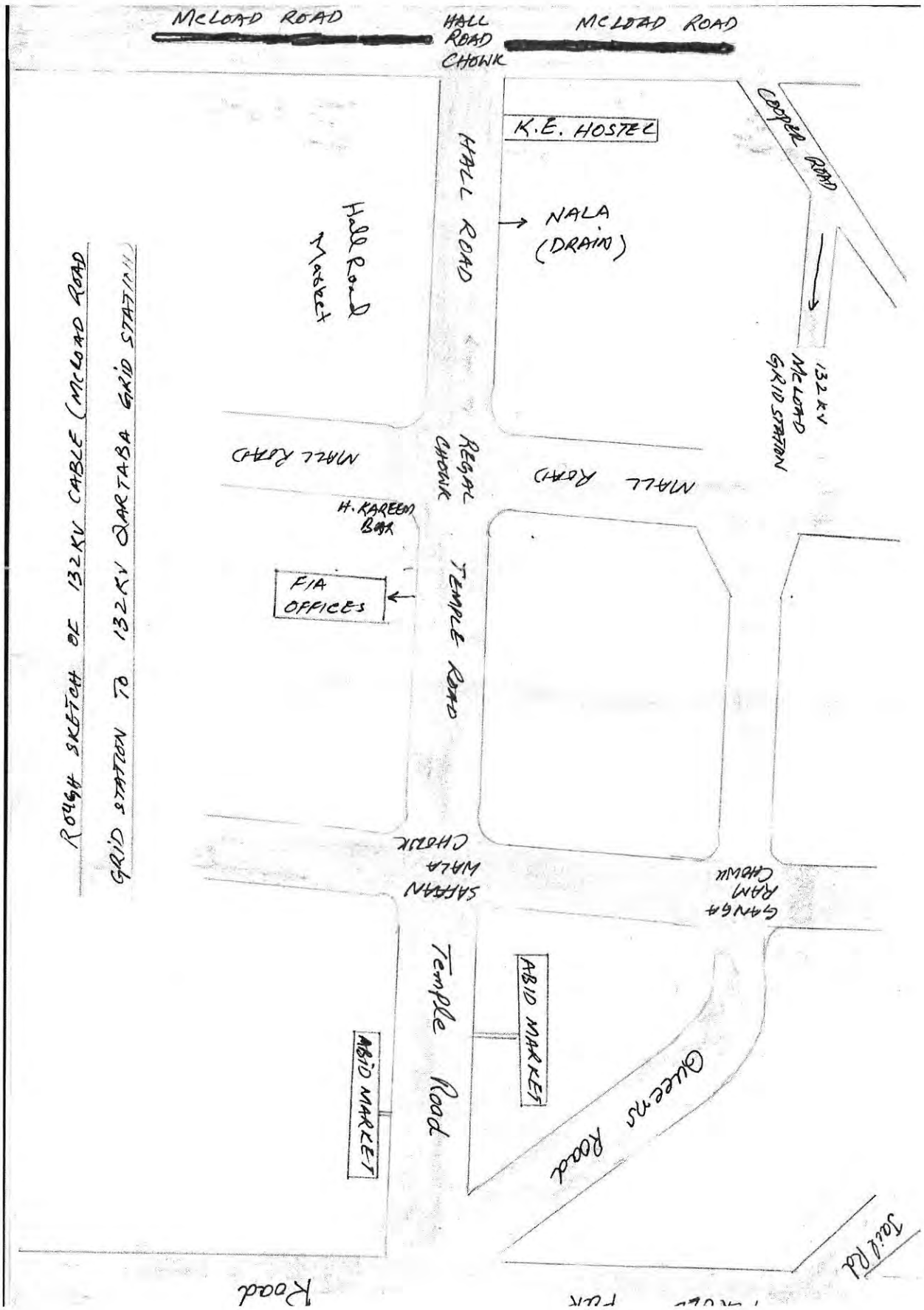
16. Representatives of schools and hospitals were also of the view that the construction activity once started should be completed in the minimum time period and road restoration work should also be done on priority in order to minimize the mobility problems for school children and patients. Detail regarding community consultation is given in Annexure A. Photographs of community consultation and key sections of the proposed route are given in Annexure B.

**Annexure A**  
**Public Consultation held on September 16, 19 & 20, 2016**  
**List of Respondents in Consultation Sessions**

Sr.No.	Name of participants	Address
1	Ch.AbdulGhafoor	Iqbal Electronics Abid Market
2	Ahmad Javed Ch.	Iqbal Electronics Abid Market
3	Zubair Ahmad Hashmi	Hussain Electronics Abid Market
4	Naeem Iqbal	Lahore Center 21- Abid Market
5	Hafiz Adnan	New Rafi Electronics
6	Muhammad Tahir	New Rafi Electronics
7	Muhammad Kashif	Abid Market Electronics Shop
8	Hafiz Waqar	Abid Market Electronics Shop
9	Younus Butt	Yunus Electronics Temple Road
10	Haji M.TariqFeeroz President Traders Association (AnjumanTajran ) Lahore	Abid Market Tample Road Lahore
11	Sheikh Tahir Mehmood General Secretary Traders Association Abid Market	Abid Market SelectronicsQueensRoad
12	Sheikh Haider Ali	Abid Market Queens Road
13	KashifMaqbool Secretary Abid Market	Abid Market Temple Road
14	Maqsood Ahmad	Tariq Electronics Abid Market
15	MianZarar	Mian Autos Temple Road
16	MianRafiq	Taj Mahal Sweet Temple Road
17	Junaid Ijaz	Shopkeeper Temple Road
18	Mr,Babar Mahmood Haider President AlKhidmat Group Hall Road Lahore	Hall Road Lahore

19	M.Rafiq Senior Vice Chairmain Hall Road Market	16-Hall Road
20	M.Ijaz Mughal Vice Chairman Hall Road	Zone 3 Hall Road
21	Ijazz Ahmad Butt	Abdullah Center Hall Road
22	Hussain AhmaShehzad	Ahmed Mobile Hall Road
23	KhizarHayyat	Ahmad Mobile Hall Road
24	Dildar Hussain	Food Shop Regal Chowk
25	Ghulam Mustafa Yaseen	Food Shop Regal Chowk Temple Road
26	Muhammad Ilyas	Bilal Milk Shop Temple Road
27	Muhammad Yaqoob	Shahid Biryani Center Temple Road
28	Muhammad Azeem	Al-sadaat Store Regal Chowk
29	Mr.AyazJames Head Master	Sacred Heart School Temple Road
30	Sr.RoseYaqub (op)	Sacred Heart School Temple Road
31	Abdul Gaffar Admin Section	K.E Boys Hostel
32	Mirza Ghulam Hussain	DEO Education Officer Temple Road
33	Mr.Sarwar Anwar Principal	Cathedral School Mall Road Lahore
34	Mr.Nasir Admin section	Cathedral School Mall Road
35	Professor Qazi Muhammad Saeed	Qazi Hospital Temple Road
36	Mr.GhulamRasool Admin Section	Ali Eye Hospital Temple Road
37	Faisal Bashir	Manager PSO Bahawalpur Road
38	Mr.Afzal	Rashid Battery Autos Bhawalpur Road Lahore

39	Aftab Ahmad	Hajji Maan& Co Bahawalpur Road Lahore
40	M.Asam	Aslam Darulmahi Bahawalpur Road
41	MianM.Arshad	Arshad Darulmahi Bahawalpur Road
42	Syed Awais	MuhammadiNihari Bahawalpur Road
43	Mr.Abdul Kareem Tahir Principal	Adbistan e Soophia School Bhawalpur road



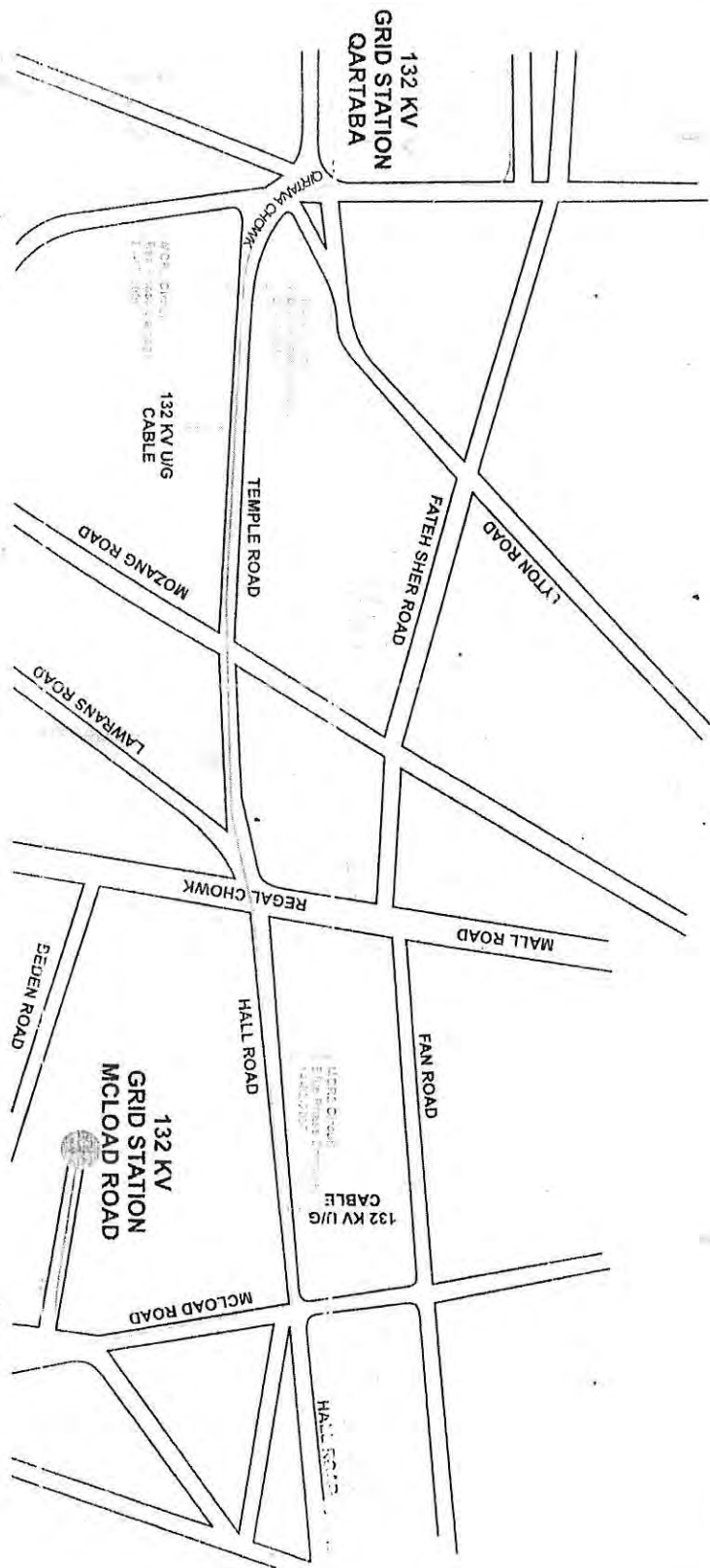
ROUGH SKETCH OF 132KV CABLE (MCLOAD ROAD) STATION TO HALL ROAD GRID STATION

GRID STATION TO 132KV DARTABA GRID STATION

Road

ROAD

3rd Rd



**LEGEND**

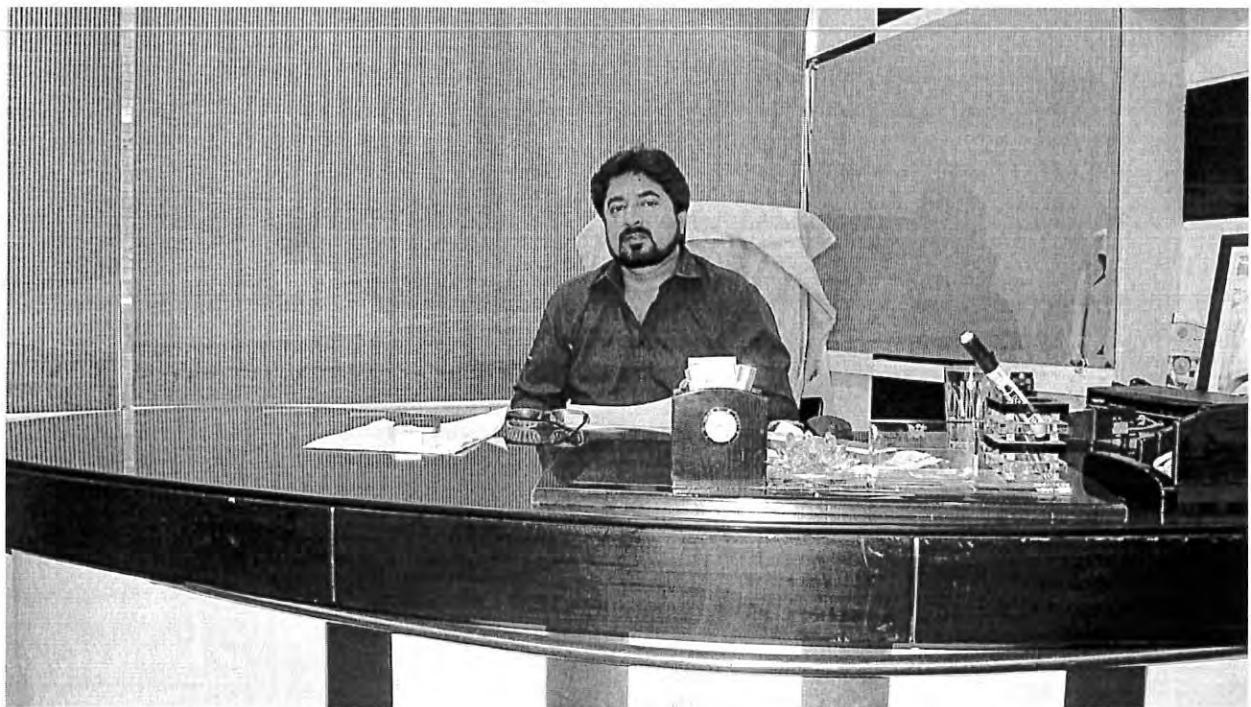
- 132 KV UNDER GROUND CABLE (DOUBLE CIRCUIT)
- 132 KV GRID STATION UNDER AE(T) SHALAMAR
- 132 KV GRID STATION UNDER AE(T) QARTABA

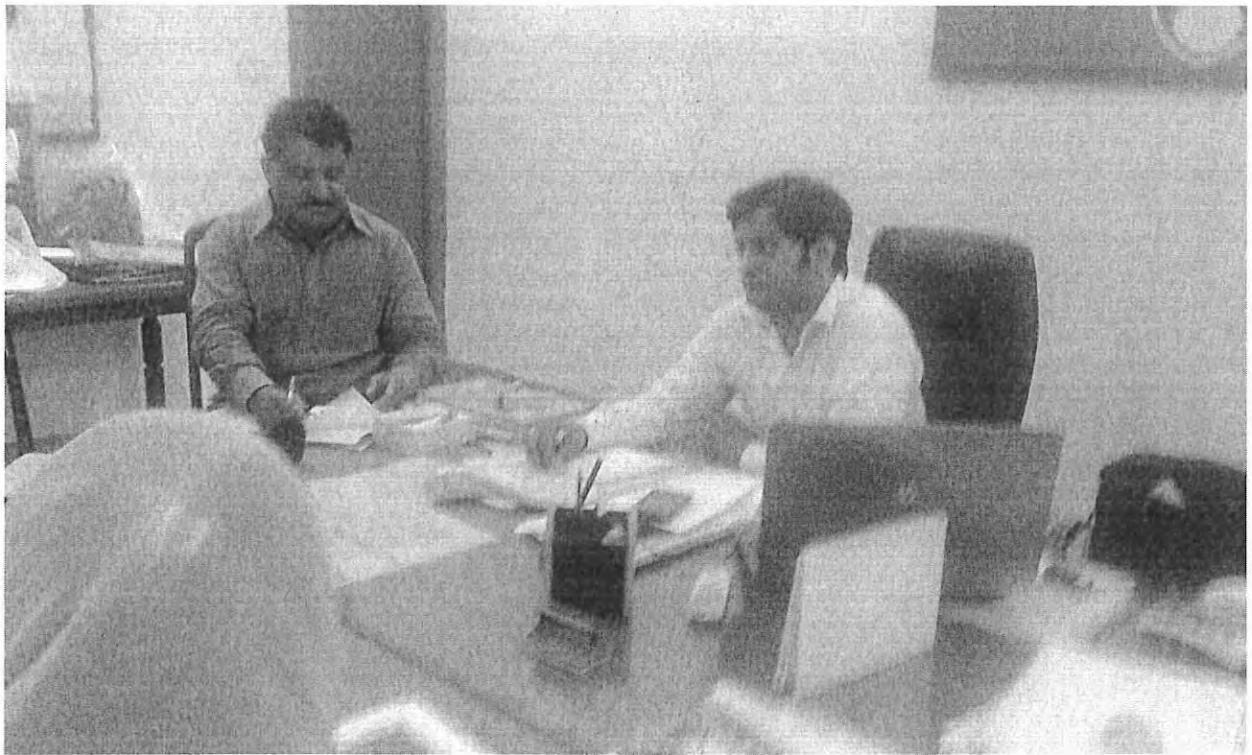
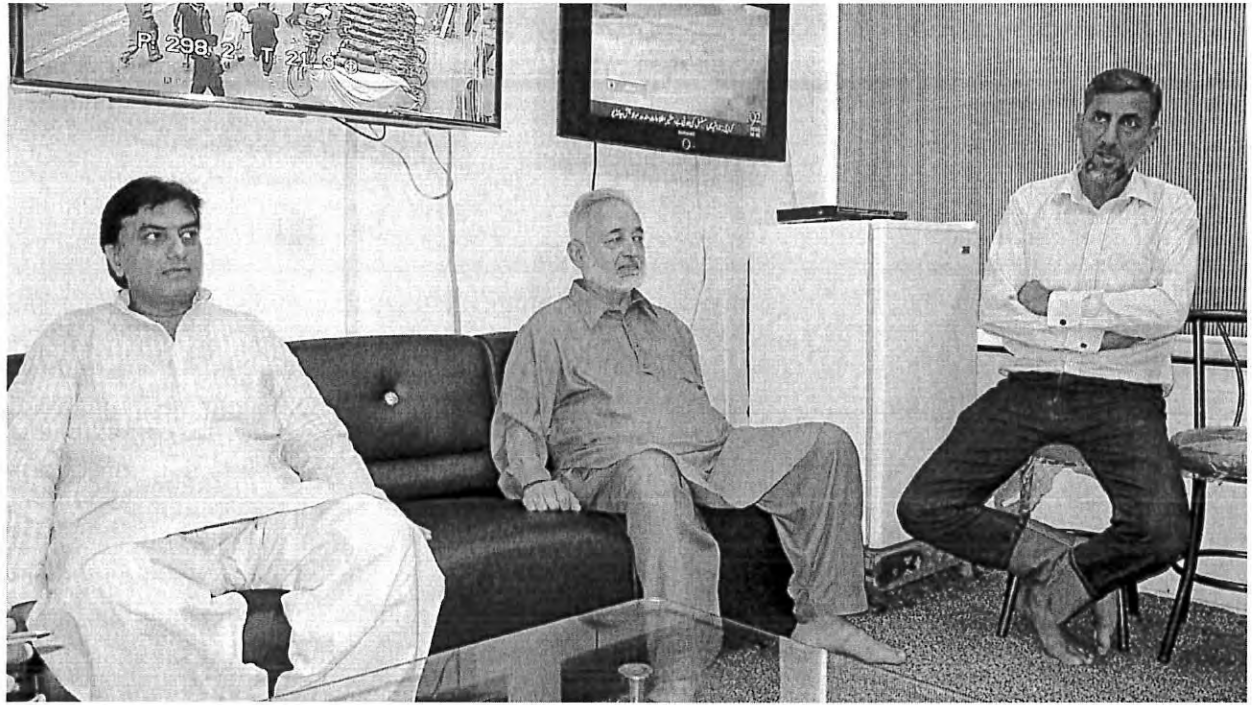


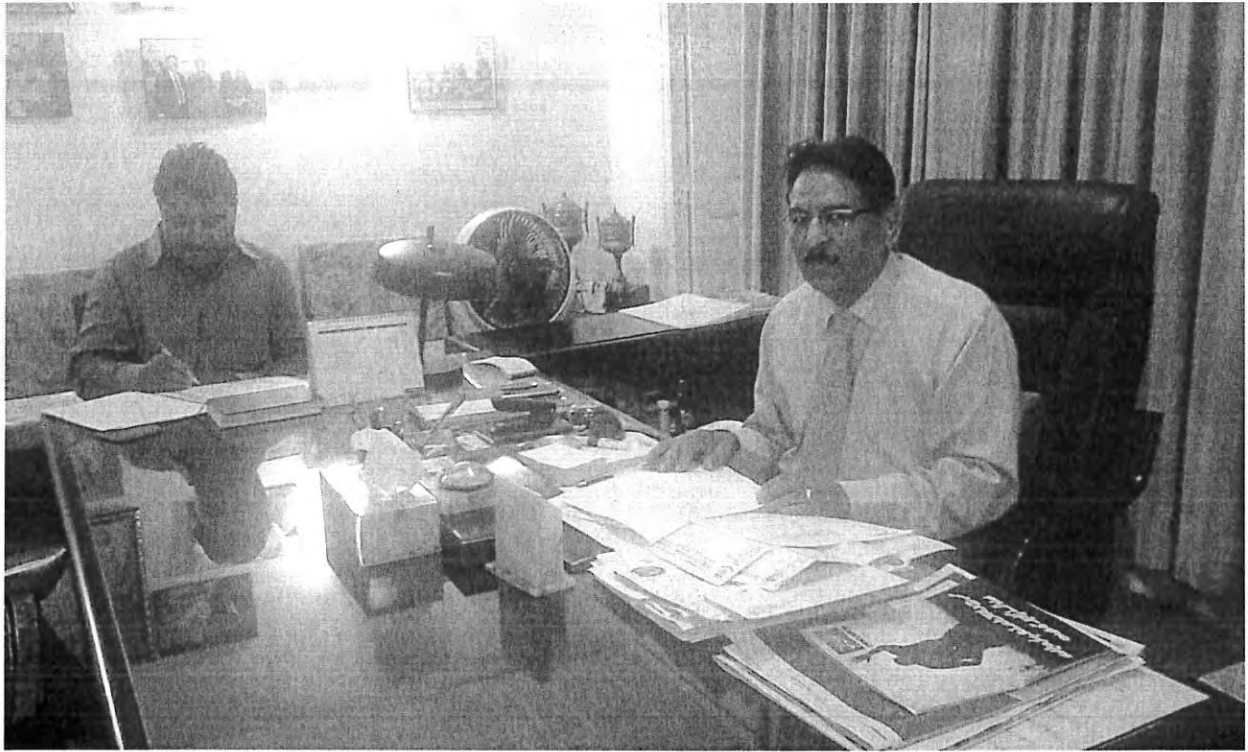
## Annexure B

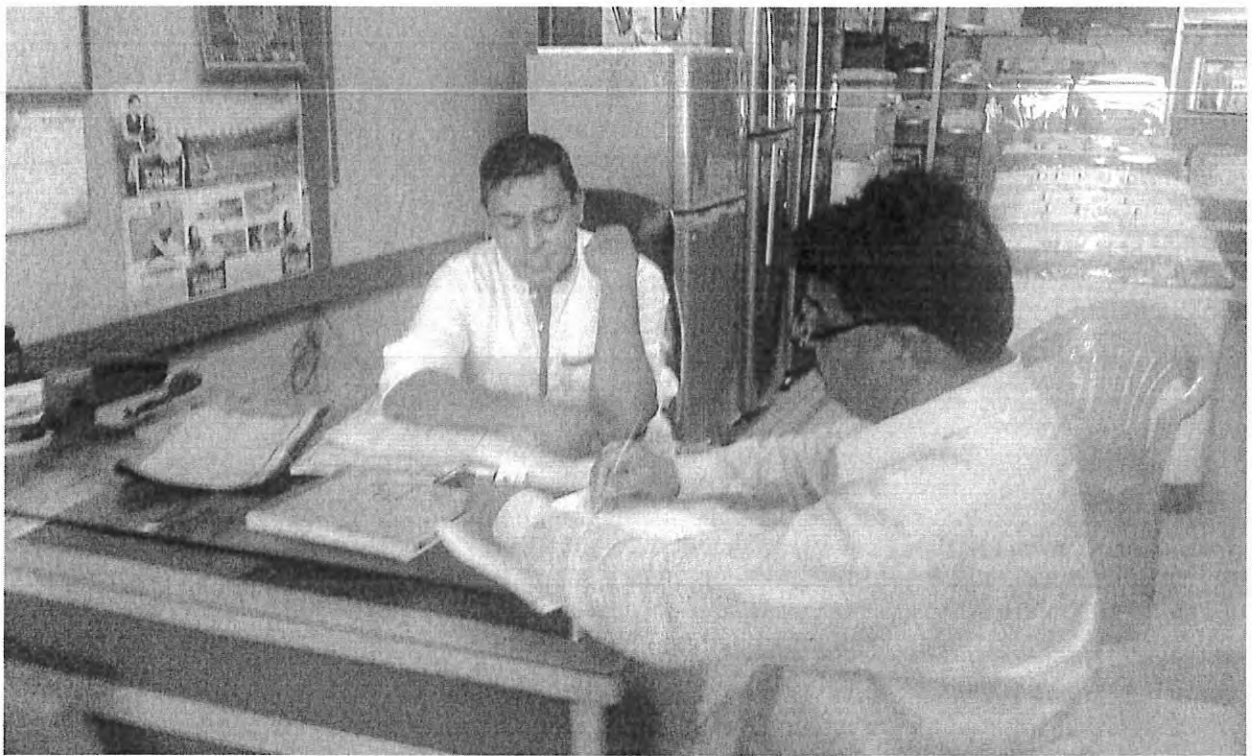
### Photographs of Public Consultation

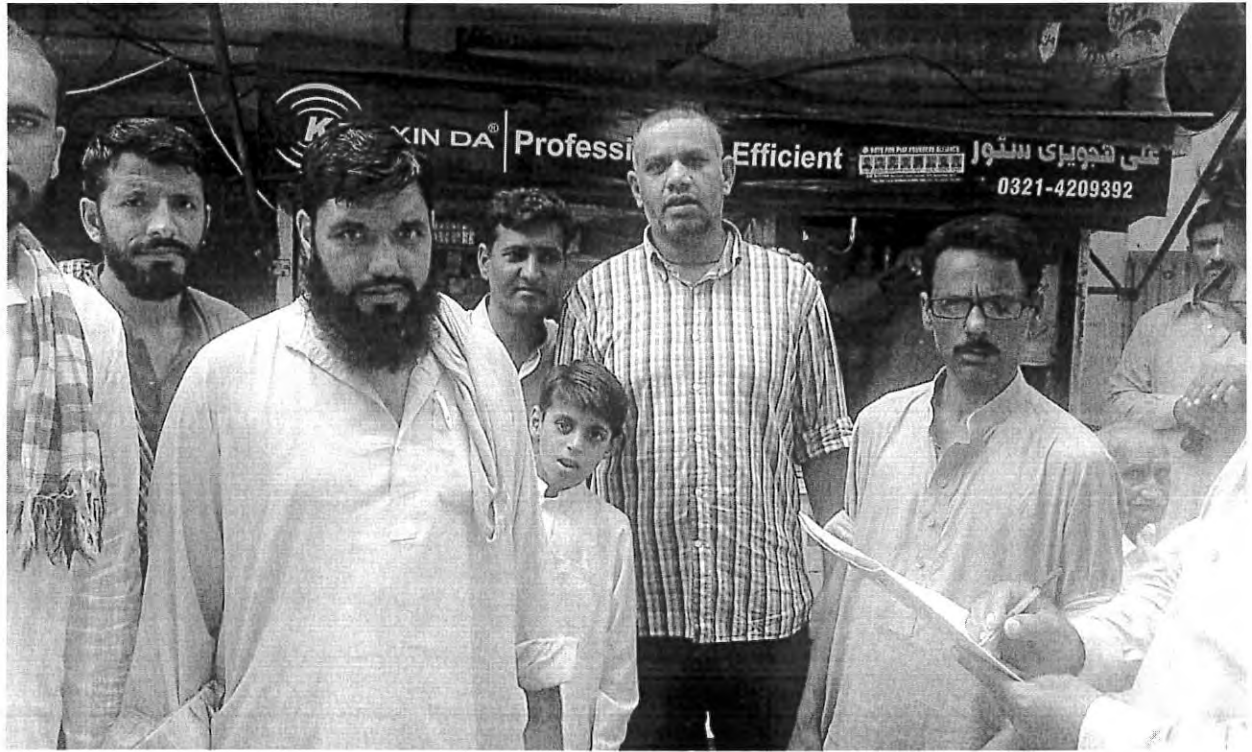








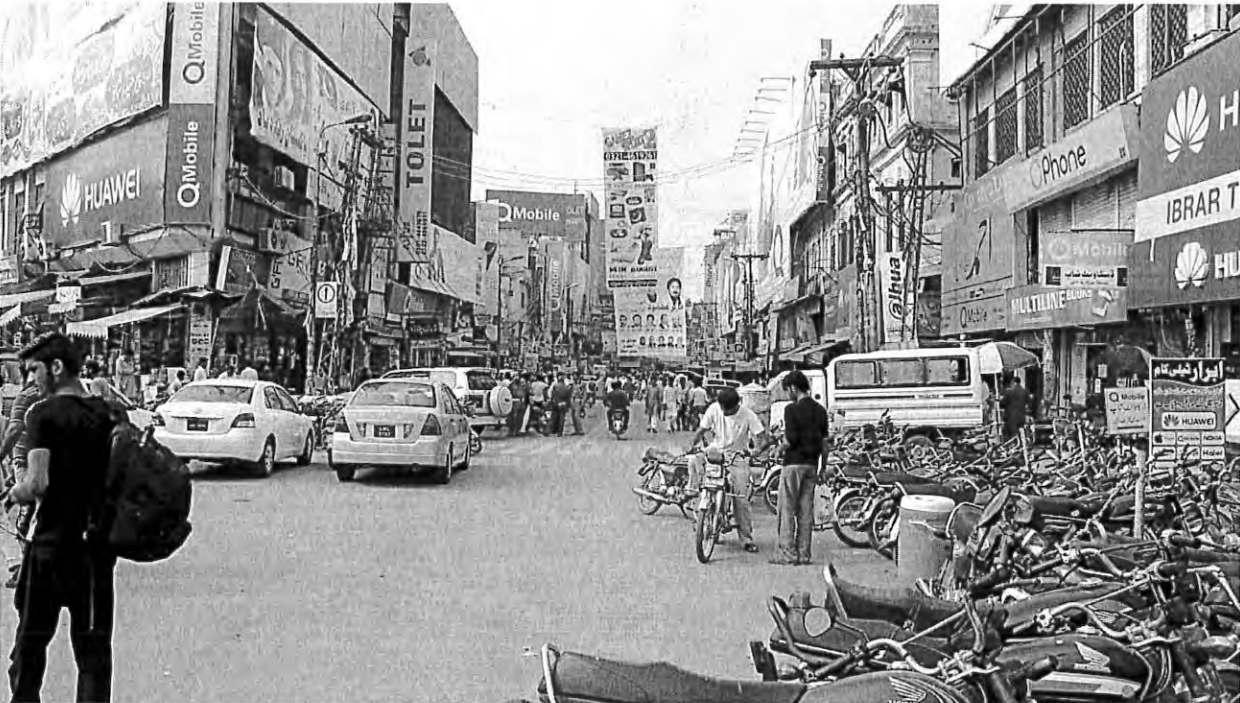




**Photographs of Key Sections of Proposed Route of Underground Cable b/w Qartaba Grid Station-Mcleod Road Grid Station**



Qartaba Chowk



Hall Road



Temple Road





Temple Road



Bhawalpur Road