

Resettlement Plan Due Diligence

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MFF 0021-PAK: Power Distribution Enhancement Investment Program – Tranche 4

Prepared by Gujranwala Electric Supply Company for the Asian Development Bank.

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**Islamic Republic of Pakistan: Multi-tranche Financing Facility (MFF)
For Power Distribution Enhancement
Investment Program**

**Tranche-IV: Power Transformer's Extension &
Augmentation Subprojects**

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ABBREVIATIONS

ADB	Asian Development Bank
AP	Affected Persons
DISCOs	Distribution Companies
EA	Executing Agency
GEPCO	Gujranwala Electric Supply Company
MFF	Multi-Tranche Financing Facility
MoWP	Ministry of Water & Power
PEPCO	Pakistan Electric Power Company
PMU	Project Management Unit

UNITS

GWh	Giga Watt Hour
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1. BACKGROUND

1 The Government of Pakistan has obtained a loan from the Asian Development Bank (ADB) for implementing the Power Distribution Enhancement Investment Program (the program), to be executed through a Multi-tranche Financial Facility (MFF), split into at least four Tranches or Projects. The Ministry of Water and Power, through Pakistan Electric Power Company (PEPCO) is the Executing Agency (EA), and the Gujranwala Electric Power Company (GEPCO) is the Implementing Agency (IA).

2 Each of the program's tranches will constitute a project which, in turn, will be divided into several sub-projects involving the construction and/or upgrading of the substations and transmission lines. The Program's Project-1 (Tranche-1) was completed during FY 2007-08, and Projects-2 & 3 (Tranches 2&3) are currently being executed. The proposed ADB intervention will finance new investments in PDE and assist capacity building of sector related agencies. The investment program will cover necessary PDE development activities in secondary transmission/ distribution networks of eight DISCOs. The PDEMFF activities include extension (additional transformers) and augmentation (replacement of transformers with higher capacity) distribution line extensions, new and replacement distribution lines, additional substations, transformer protection and other non-network activities such as automatic meter reading, construction equipment and computerized accounting. New distribution lines to and from various network facilities and some of the above activities will also be included in the later tranches. The proposed PDEMFF facility has been designed to address both investment and institutional aspects in the electrical power sector.

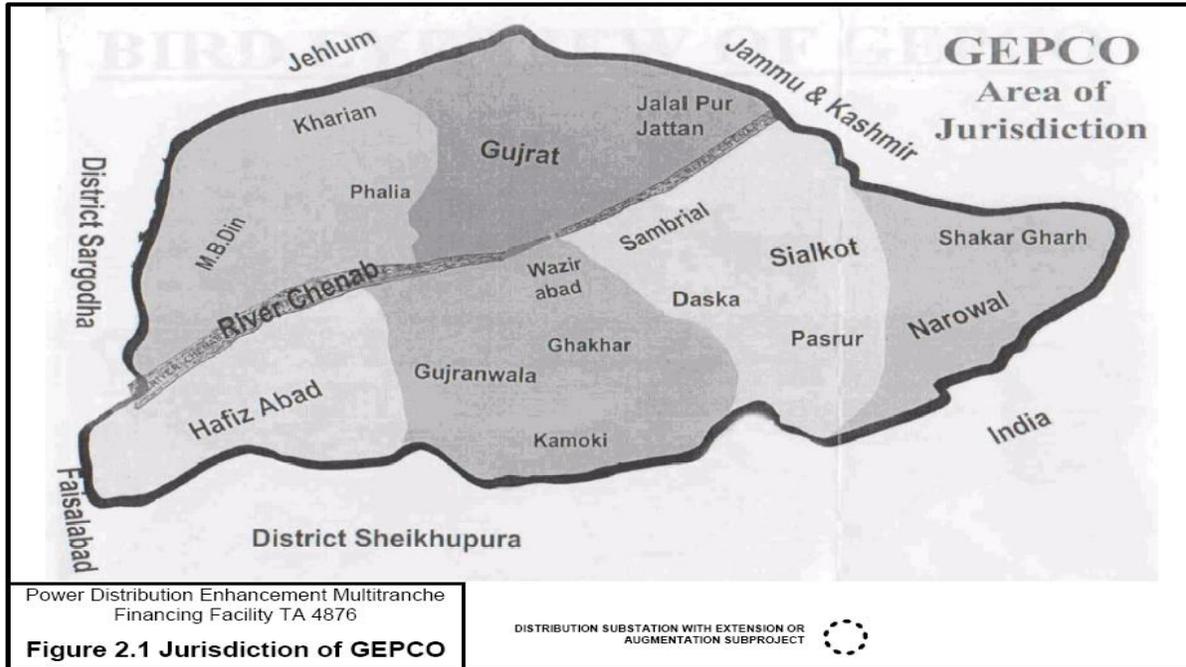
3 The cities of GEPCO Region have been expanding all around and there has been rapid industrialization and urbanization during the last two to three decades. Currently, GEPCO is supplying electric power to Gujranwala, Hafizabad, Narowal, Gujrat, M.B.Din and Sialkot Cities and its suburbs from existing Ghakhar 220kV N.T.D.C Grid Station. Due to rapidly increasing power demands for domestic, industrial needs of the cities, and its surrounding rural areas with additional needs for the tube-well for irrigated agriculture, these grid stations have become overloaded and insufficient to meet the power demands of the area. Thus, there is a dire need to improve the power supply system in GEPCO Region through Extensions/ Augmentations and provide relief to overloaded power transformers.

4 This DDR has been prepared for 14 No. of sub-projects Extensions/ Augmentations in the existing 132kV Grid Stations Named (Dinga, Fatehpur, Gujrat-2, Hellan, J.P. jattan, Kuthiala Sheikhan, Lala-Musa, M.B.Din, Mangowal, Narowal, Pasrur, Qilla Dedar Singh, Shakar Garh and Wazirabad) proposed by GEPCO and are submitted by Pakistan Electric Power Company (PEPCO) on behalf of GEPCO. The Scope of work involves Extensions/ Augmentations i.e. (Augmentation:-replacement of higher capacity of power transformer(s) with lower capacity) and (Extension:-Addition of 01 or more new power transformer(s)). 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 of such activities as preparation of PC-1s and PFRs, monitoring implementation activities. This DDR study report is used to complete the Consolidated Summary Due Diligence for disclosure by ADB if necessary.

2. THE SUB-PROJECTS

The sub-projects in this DDR are all improvements to the equipment that supports the power distribution network at fourteen (14) No. of existing distribution grid sub-stations (DGS) that have been prioritized by GEPCO and selected to be included in the PDE_MFF Tranche 4. All the proposed works will be within existing DGS according to GEPCO and field observations. Since all the power transformers at these grid stations have already been overloaded so require either Extensions or Augmentations work.

Figure 2.0: Jurisdiction Map of GEPCO



These 14 No. of sub-projects exist in the heart of urban GEPCO areas, in the fringe areas near Gujranwala city, in other cities and villages falling in the jurisdiction of GEPCO i.e. Hafizabad, Sialkot, Gujrat, Gujranwala, Narowal and Mandi-Bahawalain the extension and augmentation projects are spread out around sites within the GEPCO jurisdiction.

G.1 132 kV Dinga Grid Sub-station

The subproject proposes to add one power transformer of 26MVA 132/11kV, with allied equipment. The extension subproject is located entirely within the existing substation which is located in Distt. M.B.Din. Since the extension of sub-project involves addition of one power transformer. So neither new land acquisition required nor resettlement or compensation involved.

G.2 132 kV Fatehpur Grid Sub-station

The subproject proposes to add one power transformer of 26MVA 132/11kV, with allied equipment. The extension subproject is located entirely within the existing substation which is located in Distt. Gujranwala. Since the extension of sub-project is carried out within the existing 132kV Grid Station. So, neither new land acquisition will be required nor resettlement or compensation involved.

G.3 132 kV Gujrat-2 Grid Station

The subproject proposes to replace an existing 20/26 MVA transformer by a 40MVA 132/11kV transformer with allied equipment. The subproject site is located in Distt Gujrat. Since the Augmentation of sub-project involves replacement of lower capacity of Power Transformer with higher capacity Power Transformer so, neither new land acquisition will be required nor compensation involved.

G.4 132 kV Hellan Gr. Station

The subproject proposes to add one power transformer of 26MVA 132/11kV, with allied equipment. The extension subproject is located entirely within the existing substation which is located in Distt. M.B.Din. Since the addition of power transformer is carried out within the existing 132kV Grid Station. So, neither new land acquisition will be required nor resettlement or compensation involved.

G.5 132 kV J.P Jattan Grid Station

The subproject proposes to replace an existing 20/26 MVA transformer by a 40 MVA 132/11kV transformer with allied equipment. The sub-project site is located in Distt Gujrat. Since the Augmentation of sub-project involves replacement of lower capacity of power transformer with higher capacity power transformer so, neither new land acquisition will be required nor compensation involved.

G.6 132 kV Kuthiala Sheikhan Grid Station

The subproject proposes to replace an existing 20/26 MVA transformer by a 40 MVA 132/11kV transformer with allied equipment. The sub-project site is located in Distt. M.B.Din. Since, the augmentation of sub-project involves replacement of lower capacity of power transformer with higher capacity power transformer so, neither new land acquisition will be required nor compensation involved.

G.7 132 kV Lala Musa Grid Station

The subproject proposes to replace an existing 20/26 MVA transformer by a 40MVA 132/11kV transformer with allied equipment. The sub-project site is located in Distt Gujrat. Since, the augmentation of sub-project involves replacement of lower capacity of power transformer with higher capacity power transformer so, neither new land acquisition will be required nor compensation involved.

G.8 132 kV M.B. Din Grid Station

The subproject proposes to replace an existing 20/26 MVA transformer by a 40 MVA 132/11kV transformer with allied equipment. The sub-project site is located in Distt. M.B.Din. Since, the augmentation of sub-project involves replacement of lower capacity of power transformer with higher capacity power transformer so, neither new land acquisition will be required nor compensation involved.

G.9 132 kV Mangowal Grid Station

The subproject proposes to add one power transformer of 26MVA 132/11kV, with allied equipment. The extension subproject is located entirely within the existing substation which is located in Distt Gujrat. Since the extension of sub-project is carried out within the existing 132kV grid station. So, neither new land acquisition will be required nor resettlement or compensation involved.

G.10 132 kV Narowal Grid Station

The subproject proposes to replace an existing 20/26 MVA transformer by a 40MVA 132/11kV transformer with allied equipment. The sub-project site is located in Distt Narowal. Since, the augmentation of sub-project involves replacement of lower capacity of power transformer with higher capacity power transformer so, neither new land acquisition will be required nor compensation will be involved.

G.11 132 kV Pasrur Grid Station

The subproject proposes to add one power transformer of 26MVA 132/11kV, with allied equipment. The extension sub-project is located entirely within the existing sub-station which is located in Distt. Sialkot. Since the extension of sub-project is carried out entirely within the existing 132kV grid station. So, neither new land acquisition will be required nor resettlement or compensation is involved.

G.12 132 kV Qila Dedar Singh Grid Station

The subproject proposes to Extension, add one power transformer of 40MVA 132/11kV, with allied equipment. The augmentation sub-project is located entirely within the existing sub-station which is located in Distt. Gujranwala. Since the extension of sub-project is carried out entirely within the existing 132kV grid station. So, neither new land acquisition to be required nor resettlement or compensation is involved.

G.13 132 kV Shakar Garh Grid Station

The subproject proposes to Extension, add one power transformer of 13 MVA 132/11kV, with allied equipment. The extension sub-project is located entirely within the existing sub-station which is located in Distt. Narowal Since the extension of sub-project is carried out entirely within the existing 132kV grid station. So, neither new land acquisition to be required nor resettlement or compensation is involved.

G.14 132 kV Wazirabad Grid Station

The subproject proposes to replace an existing 20/26 MVA transformer by a 40MVA 132/11kV transformer with allied equipment. The sub-project site is located in Distt. Gujranwala. Since, the augmentation of sub-project involves replacement of lower capacity of power transformer with higher capacity power transformer so, neither new land acquisition will be required nor compensation will be involved.

2 Out of fourteen subprojects, sub-projects selected in Tranche 4 are Augmentation sub-projects and are extension sub-projects (Table 2.1).

Table 2. 1: Component of Tranche-IV Sub-Projects

Tranche-IV GEPCO Subprojects				
Project No	Associated Project	Name of Grid Station	Type of Project	New Transformer Size
G 1	G 5	132 kV Dinga	Extension	1x 26 MVA
G 2	—	132 kV Fateh Pur	Extension	1x 26 MVA (Spare from Tr-II Theri Sansi G/S)
G 3	G 4	132 kV Gujrat-2	Augmentation	1 x 40 MVA
G 4	G 3	132 kV Hellan	Extension	1x 26 MVA
G 5	G 1	132 kV J.P Jattan	Augmentation	1 x 40 MVA
G 6	—	132 kV Kuthiala Sheikhan	Augmentation	1 x 40 MVA

Tranche-IV GEPCO Subprojects				
Project No	Associated Project	Name of Grid Station	Type of Project	New Transformer Size
				(1 x 26 MVA Spare)
G 7	G 13	132 kV Lala Musa	Augmentation	1 x 40 MVA
G 8	—	132 kV Mangowal	Extension	1x 26 MVA (Spare from Tr-II Gujrat-I G/S)
G 9	G 11	132 kV M.B Din	Augmentation	1 x 40 MVA
G 10	—	132 kV Narowal	Augmentation	1 x 40 MVA (1x 26 MVA to be used at Zafar Wal G/S under 6th STG)
G 11	G 9	132 kV Pasrur	Extension	1x 26 MVA
G 12	G 14	132 kV Qila Dedar Singh	Extension	1x 26 MVA
G 13	G 7	132 kV Shakar Garh	Extension	1 X 13 MVA
G 14	G 12	132 kV Wazir Abad	Augmentation	1 x 40 MVA

Table 2. 2: Summary of Sub-Project Works under Tranche-IV

ABSTRACT			
Rating of Power T/F (MVA)	Projects (Nos)		Total
	Augmentation	Extension	
40	7	—	7
26	—	6	6
13	—	1	1
Total	7	7	14

2.1 Resettlement Impacts

2.2.1 Number of houses to be displaced

1. No houses exist on the project sites and the area is not inhabited, therefore there are no resettlement issues related with housing.

2.2.2 Number of Directly Affected Persons (AP's)

2. No peoples are living on the project sites, hence there are no directly affected.

2.2.3 Number of Indirectly Affected Persons (AP's)

3. As there will be no work in the adjoining areas, there will be no indirect effects.

2.2.4 Loss of Agricultural Area / Cropland

4. The grid stations land have no agriculture use, therefore there is no loss of agricultural area or any cropland.

2.2.5 Loss of Orchards

5. There are no losses of orchards.

2.2.6 Loss of water courses

6. No watercourses exist in the subproject areas.

2.2.7 Loss of trees

7. Tree plantations exist within the grid stations and in the surrounding areas. No tree will be removed for the erection of new transformers.

2.2.8 Loss of structures / buildings

8. No loss of structures / buildings will occur due to the implementation of the sub-projects.

2.2.9 Loss of individual and community livelihoods

9. There are no losses of livelihoods. (see 2.2.2 and 2.2.3)

2.2.10 Loss of forest land

10. The work being carried out within the existing grid stations does not incur loss of forestlands.

2.2.11 Damage or disturbance to government installations

11. The area / grids belong to GEPCO with allied structure and equipment. The installation / erection of transformers will be carried out within these grid stations. This will improve bring improvement to the overloaded substations.

2.2.12 Damage or disturbance to utility lines

12. There will be no disturbance to the utility lines.

2.2.13 Loss of grazing and fishing activities

13. There is no loss of grazing and fishing activities. (see 2.2.4)

2.2.14 Summary

14. The project falls under **Category-C** therefore, no resettlement plan is required as there is no private land acquisition or acquisition of other assets. There is no displacement of people and there is no loss of income is caused by the subproject.

2.2 Community's Overall Response to the Proposed Sub-Project

15. The major concern of the community is of load shedding. Some residents also demanded employment of local persons during the erection / installation period. The local communities responses to the subproject are summarized as follows:

2.3.1 Project Awareness

16. The majority of the beneficiary communities were found aware of the Project activities.

2.3.2 Effects on business and living conditions

17. Almost all of the community expect a positive impact of the sub-project in terms of improved voltage and reduced load shedding.

2.3.3 Job Opportunities

18. The communities requested to be hired for unskilled to semi-skilled jobs during the construction and operation of the project activities.

2.3.4 Suitability of Proposed site

19. The present sites are suitable for extension and augmentation of power transformers.

2.3 Socio-Economic Survey

20. No socio-economic survey was required for this project as this fall in Category-C as per ADB Guidelines.

2.4 Indigenous People

21. There are no indigenous people in the project area.

2.5 Gender Impacts

22. During the discussion with community it was observed that women's status was considered to be much below that of men. They were not allowed to move freely and have low participation in decision making for socio economic activities.

2.6 Resettlement Budget

23. This is not applicable for any of the sub projects. (2.2.14)

2.7 Implementation Schedule

24. This is not applicable, see above.

3. MONITORING & EVALUATION

25. The Monitoring & Evaluation activities of this sub-project will be limited to monitoring the implementation of construction. It will be ensured that the contractors, vendors and economic activities include the employment of local labor force in the construction and post construction activities.

4. IDENTIFICATION AND SELECTION OF ALTERNATIVE SITES

26. No studies of alternative sites are required as the subproject do not involve any involuntary resettlement and social and economic loss to any section of the society or the grazing rights of the indigenous peoples. No activity for the compensation or relocation is planned under the subproject.