

**Asian Development Bank**

**PAKISTAN - POWER DISTRIBUTION ENHANCEMENT  
INVESTMENT PROGRAM**

**TRANCHE – II**

**Construction of 132kV Dadu-Meher-Larkana  
Transmission Line Subproject**

**LAND ACQUISITION AND RESETTLEMENT PLAN**

**HYDERABAD ELECTRIC SUPPLY COMPANY (HESCO)**

**GOVERNMENT OF PAKISTAN**

**OCTOBER, 2014**

## TABLE OF CONTENTS

|   |           |
|---|-----------|
| <b>ABBREVIATIONS .....</b>  | <b>4</b>  |
| <b>DEFINITION OF TERMS .....</b>  | <b>5</b>  |
| <b>EXECUTIVE SUMMARY .....</b>  | <b>6</b>  |
| <b>1. INTRODUCTION.....</b>   | <b>8</b>  |
| 1.1 Background.....   | 8         |
| 1.2 Description of the Subproject .....                                     | 8         |
| <b>2. PROJECT COMPENSATION AND REHABILITATION FRAMEWORK .....</b>           | <b>10</b> |
| 2.1 Policy Provisions, Eligibility and Entitlements .....                   | 10        |
| 2.2 ADB's Involuntary Resettlement Policy .....                             | 10        |
| 2.3 Comparison of Land Acquisition Act and ADB Resettlement Policy .....    | 10        |
| 2.4 Remedial Measures to bridge the Gap .....                               | 10        |
| 2.5 Land Classification .....   | 10        |
| 2.6 LAR Approaches for the Subproject .....                                 | 11        |
| 2.7 Compensation Eligibility and Entitlements for the Project .....         | 11        |
| 2.8 Eligibility .....   | 11        |
| 2.9 Compensation Entitlements .....   | 12        |
| 2.10 Assessment of Compensation Unit Values based on Replacement Cost ..... | 12        |
| <b>3. ASSESSMENT OF IMPACTS.....</b>  | <b>13</b> |
| 3.1 Resettlement Field Survey .....   | 13        |
| 3.2 Minimization of Impacts.....  | 13        |
| 3.3 Impacts of the Subproject.....  | 13        |
| 3.3.1 General Description .....   | 13        |
| 3.3.2 Impacts of Towers/Poles .....   | 14        |
| 3.3.3 Impacts of Transmission Line (TL Corridor).....                       | 15        |
| 3.4 Significance of Impacts .....   | 16        |
| <b>4. SOCIO-ECONOMIC PROFILE OF AFFECTED PEOPLE.....</b>                    | <b>17</b> |
| 4.1 Census of Affected Households .....                                     | 17        |
| 4.1.1 Field Methodology.....  | 17        |
| 4.1.2 General Information on Affected Households .....                      | 17        |
| 4.1.3 Indigenous People .....   | 17        |
| 4.2 Data on Heads of Affected Households.....                               | 17        |
| 4.3 Data on Affected Households.....  | 17        |
| 4.3.1 General .....   | 17        |

|            |  |           |
|------------|--|-----------|
| 4.3.2      | Housing.....   | 17        |
| 4.3.3      | Livelihood and Incomes.....                                      | 17        |
| <b>5.</b>  | <b>INSTITUTIONAL ARRANGEMENTS.....</b>                           | <b>19</b> |
| 5.1        | Pakistan Electric Power Company (PEPCO).....                     | 19        |
| 5.1.1      | Distribution Companies (DISCOs).....                             | 20        |
| 5.1.2      | Technical Assistance (Consultant).....                           | 20        |
| 5.2        | Hyderabad Electric Supply Company (HESCO) .....                  | 20        |
| 5.2.1      | Planning Division.....   | 20        |
| 5.2.2      | Chief Engineer Development.....                                  | 20        |
| 5.2.3      | Grid System Construction (GSC) Directorate .....                 | 20        |
| 5.3        | District Government .....  | 21        |
| 5.4        | Responsibility for Internal Monitoring.....                      | 21        |
| <b>6.</b>  | <b>CONSULTATION AND DISCLOSURE .....</b>                         | <b>22</b> |
| 6.1        | Consultation Undertaken for the LARP.....                        | 22        |
| 6.2        | Compensation Options Discussed .....                             | 22        |
| 6.3        | LARP Disclosure .....  | 22        |
| <b>7.</b>  | <b>GRIEVANCE REDRESS PROCESS .....</b>                           | <b>24</b> |
| <b>8.</b>  | <b>BUDGET FOR LAND AND ASSET ACQUISITION .....</b>               | <b>25</b> |
| 8.1        | Basis for Compensation .....                                     | 25        |
| 8.2        | Determining the Rates for Compensation.....                      | 25        |
| 8.3        | Budget for the SRP .....   | 27        |
| <b>9.</b>  | <b>IMPLEMENTATION SCHEDULE.....</b>                              | <b>28</b> |
| <b>10.</b> | <b>MONITORING AND EVALUATION .....</b>                           | <b>29</b> |
| 10.1       | Internal Monitoring .....  | 29        |
| 10.2       | Resettlement Databank.....                                       | 29        |
| 10.3       | Reporting Requirements .....                                     | 29        |
|            | <i>Appendix 1: Legal and Policy Framework</i>                    |           |
|            | <i>Appendix 2: List of Participants in Consultation Sessions</i> |           |
|            | <i>Appendix 3: Draft Public Information Brochure</i>             |           |

## Abbreviations

|              |   |
|--------------|---|
| ADB          | Asian Development Bank  |
| TA           | Technical Assistance (Grant for Project preparation)  |
| CE (Dev)     | Chief Engineer Development  |
| AHs          | Affected Household  |
| DOR          | District Officer Revenues   |
| APs          | Affected Persons  |
| E&SS         | Environmental and Social Safeguard Cell (HESCO)   |
| ft           | foot / feet (3.28 ft = 1 m)   |
| GRC          | Grievance Redress Committee   |
| IPDF         | Indigenous Peoples Development Framework  |
| IPDP         | Indigenous Peoples Development Plan   |
| KAA          | Katchi Abadis Act, 1987.  |
| <i>kanal</i> | unit of land measurement: 1 kanal = 20 marlas (8 kanal = 1 acre)                              |
| km           | kilometer   |
| kV           | kilo-Volt   |
| LAA          | Land Acquisition Act, 1894 (amended)  |
| LAC          | Land Acquisition Collector  |
| LARF         | Land Acquisition and Resettlement Framework   |
| LARP         | Land Acquisition and Resettlement Plan  |
| LPC          | (District) Land Price Committee   |
| m            | meter   |
| <i>marla</i> | smallest unit of land measurement: 1 marla = 272.25 ft <sup>2</sup> (= 25.31 m <sup>2</sup> ) |
| HESO         | Hyderabad Electric Supply Company   |
| MOWP         | Ministry of Water and Power   |
| MRM          | Management Review Meeting   |
| NGO          | Non-governmental organization   |
| PEPCO        | Pakistan Electric Power Company   |
| PD           | Project Director  |
| PIB          | Public Information Booklet  |
| PMU          | Project Management Unit   |
| PPTA         | Project Preparatory Technical Assistance  |
| RFS          | Resettlement field survey   |
| ROW          | Right-of-way  |
| Rs.          | Pakistani rupees (currency)   |
| TA           | Telegraph Act, 1885 (amended 1975)  |
| TL           | Transmission Line   |
| TOR          | Terms of Reference  |

## Definition of Terms

|                                  |  |
|----------------------------------|--|
| <b>Affected persons (APs)</b>    | Affected persons are those who are physically displaced (relocation, loss of residential land, or loss of shelter) and/or economically displaced (loss of land, assets, access to assets, income sources, or means of livelihoods) as a result of (i) involuntary acquisition of land, or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas.  |
| <b>Compensation</b>              | means payment in cash or kind for an asset to be acquired or affected by a project at replacement cost at current market value.  |
| <b>Cut-off-date</b>              | the date after which people will NOT be considered eligible for compensation i.e. they are not included in the list of AHs as defined by the Census. Normally, the cut-off date is the last date of the Resettlement Field Surveys (RFS).  |
| <b>Encroachers</b>               | People who extend their occupation beyond the lands they legally own. Usually not entitled to compensation but sometimes provided with assistance if they are found to be vulnerable.  |
| <b>Entitlement</b>               | means the range of measures comprising cash or kind compensation, relocation cost, income rehabilitation assistance, transfer assistance, income substitution, and relocation which are due to /business restoration which are due to AHs, depending on the type and degree nature of their losses, to restore their social and economic base.   |
| <b>Inventory of losses</b>       | means pre-appraisal inventory of assets as a preliminary record of affected/lost assets.   |
| <b>Land acquisition</b>          | means the process whereby a person is compelled by a public agency to alienate all or part of the land s/he owns or possesses, to the ownership and possession of that agency, for public purposes, in return for fair compensation.   |
| <b>Non-titled</b>                | means those who have no recognizable rights or claims to the land that they are occupying and includes people using private or state land without permission, permit or grant i.e. those people without legal title to land and/or structures occupied or used by them. ADB's policy explicitly states that such people cannot be denied compensation.   |
| <b>Replacement cost</b>          | The calculation of the replacement cost is based on the following (i) fair market value (ii) transaction costs (iii) interest accrued (iv) transitional and restoration costs and (v) other applicable payments if any. Where market conditions are absent or in a formative stage, the borrower/client will consult with the displaced persons and host populations to obtain adequate information about recent land transactions, land value by types, land titles, land use, cropping patterns and crop production, availability of land in the project area and region and other related information. The borrower/client will also collect baseline data on housing, and construction materials. Qualified and experienced experts will undertake the valuation of acquired assets in applying method of valuation, depreciation of structures and assets should not be taken into account. |
| <b>Resettlement Field Survey</b> | means the detailed inventory of losses that is completed after detailed design and marking of project boundaries on the ground, socioeconomic data on the affected households/families, and stakeholder consultations.   |
| <b>Sharecropper</b>              | means the same as tenant cultivator or tenant farmer, and is a person who cultivates land they do not own for an agreed proportion of the crop or harvest.   |
| <b>Significant impact</b>        | means 200 people or more will experience major impacts, which are defined as; (i) being physically displaced from housing, or (ii) losing 10 % or more of their productive assets (income generating).   |
| <b>Vulnerable</b>                | means any people who might suffer disproportionately or face the risk of being marginalized from the effects of resettlement and includes; (i) female-headed households with dependents; (ii) disabled household heads; (iii) poor households (within the meaning given previously); (iv) landless; (v) elderly households with no means of support; (vi) households without security of tenure; (vii) ethnic minorities; and (viii) marginal farmers (with landholdings of five acres or less).   |

## Executive Summary

- 1. The Subproject:** The new Larkana-Meher-Dadu (LMD) 132kV Double Circuit Transmission Line Subproject has been proposed by Hyderabad Electric Supply Company (HESCO) to provide additional power supply to the Mehar and Larkana cities and the surrounding villages and to establish a new link between Larkana, Mehar and Dadu. The total length of the new transmission line is 127.72 km requiring the construction of a total of 471 towers, of which 443 towers (94%) will be placed in private farmlands and the remaining 28 towers in unproductive lands.
- 2. Resettlement Impacts:** This transmission line will pass throughout rural areas of Larkana and Dadu district of Sindh province. In total, it will traverse 90 villages, of which 51 villages are in Larkana district and 39 villages in Dadu district. The TL's construction will temporarily affect a total of 356.18 ha of crops and 212 wood trees and 22 fruit trees will be affected. There will be a total of 363 affected households (AHs) losing agricultural crops and trees with a total population of 2,032 persons (APs). As none of the AHs will lose productive lands or fruit trees, and none will be relocated, the resettlement impacts are considered to be non-significant, and therefore, this land acquisition and resettlement plan (LARP) has been prepared.
- 3. Compensation and Rehabilitation:** Compensation and rehabilitation for losses and impacts will be provided in accordance to the entitlement matrix shown in chapter 2. This entitlements matrix contains provisions for the actual impacts of this subproject, while an umbrella (LARF) entitlements matrix containing provisions for all the potential impacts.
- 4. Cut-off-Date.** Compensation eligibility will be limited by the cut-off date fixed by HESCO is **18<sup>TH</sup> September, 2014** for this Subproject. The AHs (that settle in the affected areas and/or make changes in the land use patterns) after this cut-off-date will not be eligible for compensation. They will, however, be given a one months' notice requesting them to vacate the premises/corridor and dismantle the affected structures and / or other establishments (if any) prior to project implementation.
- 5. Significance of Impact.** Only crops will be affected by construction of towers in this subproject. As there will be no restriction on use of, or access to, the land under towers and there will be no permanent loss of land whereas the land already purchased for the grid station did not had any cultivation. No houses or community structures will be affected permanently. As no assets will be lost permanently, and none of the AHs will be displaced or lose more than 10% of their productive assets, the resettlement impacts will be non-significant, and hence, this short land acquisition and resettlement plan (LARP) has been prepared.
- 6. Indigenous People Issues.** The ADB's Policy on Indigenous People (IP), as specified in the Indigenous Peoples Planning Framework (IPPF) prepared for ABD MMF program is not triggered, and therefore neither an Indigenous Peoples Plan (IPP) nor special action is required for this subproject.
- 7. Consultation and Disclosure.** The LARF is endorsed by HESCO, and is translated in Urdu language and disclosed to the APs during the detailed Field Survey. For the updating this LARP, HESCO conducted a Reconnaissance Field Survey (RFS) in

September 2014 and held a number of consultations with local government agencies, affected households (AHs), as well as wider community groups.

**8. Grievance Mechanism.** There is a process established to deal with any issues or concerns raised on any aspect of the LARP or compensation process. The verbal or written grievances of AHs will be heard by a project level Grievance Redress Committee (GRC) has been established and will assist HESCO in solving the APs' grievances.

**9. Cost of LARP.** The compensation costs used herein are based on the unit rates derived through consultations with the affected communities and Revenue Department during RFS in September 2014. The estimated quantities of the affected assets, and their unit prices used, and compensations assessed are provided in Chapter 8 (Tables 8.1 to 8.5). The total cost of implementation of this LARP includes compensations for the affected crops (with administration charge 15% of compensations and 10% contingency).

## INTRODUCTION

### 1.1 Background

The Government of Pakistan has requested for financing from the Asian Development Bank (ADB) regarding implementing the Power Distribution Enhancement Investment Program (the program), to be executed through a Multi-tranche Financial Facility (MFF) divided into four tranches or groups of subprojects. The Pakistan Electric Power Company (PEPCO) the Executing Agency (EA) and the Hyderabad Electric Supply Company (HESCO) is the Implementing Agency (IA). Each of the program's tranches will constitute a project which, in turn, will be divided into several subprojects involving the construction and/or upgrading of the substations and transmission lines.

This Land Acquisition and Resettlement Plan (LARP) has been prepared for the construction of 127.72 Km long 132 kV Larkana-Meher-Dadu Double Circuit Transmission Line to fit the Land Acquisition and Resettlement Framework (LARF) prepared by PEPCO for the program as a whole.

The subproject will comply with the land acquisition and resettlement (LAR)-related conditions that the PMU and E&SS issuance of notice to proceed for the implementation of the subproject's civil works will be contingent to the full implementation of compensation detailed in this LARP.

According to the ADB, SPS, Resettlement impacts are considered significant if > 200 people are physically displaced from housing or lose 10% or more of their productive assets (income generating) are classified as category "A". *Projects which will create non-significant impacts are classified as category "B"* in both cases, a LARP is prepared. Number of households affected by this subproject is 363 with a population of 2032 people. The magnitude of impact on this subproject is minor because none of the AP is neither being relocated or losing any type of his productive asset permanently. The impacts are temporary and any of the AHs will not have to be rehabilitated. Therefore this LARP has been prepared and updated.

The following sections of this LARP detail out (i) the principles and eligibility/ entitlement criteria for compensation or rehabilitation of AHs; (ii) the LARP institutional organization; (iii) the various LARP implementation mechanisms (information disclosure, participation and consultation, grievance redress and, monitoring and evaluation); and, (iv) time schedule and budget.

### 1.2 Description of the Subproject

HESCO is providing electricity to Larkana city and nearby towns through three grid stations and to Mehar city and nearby towns through 132 kV Mehar grid station. For last few years the domestic, commercial and industrial power demand of the area is increasing rapidly like all other areas of Sindh as well as Pakistan. Due to the increased power demand of the area the existing grid stations have become overloaded and insufficient, and there is need to improve the power supply of the area. To meet the increased power demand HESCO has constructed a new grid station at Larkana named 132 kVLarkana-3 grid station. The construction work for the grid station is completed and is operational. Now HESCO is planning to construct a new double circuit 132 kV transmission line between Dadu and Larkana and on the way this line will be made in and out at Mehar grid station.

The contract for the sub-project has been awarded to M/s LSN and SEAN on 10<sup>th</sup> April, 2014. Total length of the transmission line is 127.72 km which will be constructed totally in the rural areas, traversing a total of 90 villages, of which 51 villages are in Larkana district and 39 villages in Dadu district. Accordingly, the transmission line comprises two sections, the first section is Larkana\_Mehar which is in Dadu and Larkana districts and the other section is Mehar\_Dadu which is in Dadu district. Length of the first section of the TL is 64.96 km which will require installation of 247 towers (238 towers in farmlands and 9 towers in unproductive lands), and length of the second section of the TL is 62.76 km which will require 224 towers (205



towers in farmlands and 19 towers in unproductive lands). The transmission line will traverse private farmland for most of its length 118,726 meter (93%) and 8,994 meter (7%) uncultivated private and government lands (Canal, Road, Paths and watercourses). As a result, some 363 AHS, with a total population of 2032 persons (APs), will be affected by temporary disruption to lands, and loss of 880 Acre of crops and 234 wood trees.

## PROJECT COMPENSATION AND REHABILITATION FRAMEWORK

This section provides a summary of Pakistani laws and regulations on land acquisition and resettlement and ADB Policy on Involuntary Resettlement.

### 2.1 Policy Provisions, Eligibility and Entitlements

Regarding matters of land acquisition relative to subprojects requiring the application of the right of eminent domain, LARPs are regulated by different bodies of law, in particular the Land Acquisition Act (LAA) of 1894 covering land acquisition for stations and towers in urban areas and the Telegraphic Act of 1885 covering the construction of towers in rural areas. The Katchi Abadis Act of 1987 will cover the rehabilitation of affected squatters.

As this specific subproject does not trigger application of any one of the above mentioned laws and only requires compensation for the loss of crops at the current market rate, we assume any explanation of these laws here will be irrelevant. However for confirmation and reference we are putting summaries of these laws in the following sections and the full text is appended as Appendix-I.

### 2.2 ADB's Safeguard Policy Statement (Involuntary Resettlement Principles)

The *Involuntary Resettlement* principles are summarized below while details are provided in attached in Appendix-1.

- Involuntary resettlement is to be avoided or at least minimized.
- Compensation must ensure the maintenance of the AHs' pre-project living standards.
- Compensation is required for any AH who as a result of a project has their access to, or use of, land restricted.
- AHs should be fully informed and consulted on LAR compensation options.
- AHs' socio-cultural institutions should be supported/ used as much as possible.
- Compensation will be paid with equal consideration of women and men.
- Lack of formal legal land title should not be a hindrance to rehabilitation.
- Particular attention should be paid to households headed by women and other vulnerable groups, such as indigenous people and ethnic minorities, and appropriate assistance should be provided to help them improve their status.
- LAR should be conceived and executed as a part of the project, and the full costs of compensation should be included in project costs and benefits.
- Compensation/rehabilitation assistance will be paid prior to ground leveling and demolition.

### 2.3 Comparison of Land Acquisition Act and ADB Resettlement Policy

There exist a considerable difference in the Pakistan Land Acquisition Act and the ADB's Safeguard Policy Statement (SPS), The Appendix 1 attached provides a detailed para wise comparison between these two laws. The section 2.4 below provides remedial measures to bridge the gap between LAA and ADB Resettlement Policy.

### 2.4 Remedial Measures to Bridge the Gap

Pakistan's land acquisition law is unclear on how rehabilitation is to be achieved and in practice the provision of rehabilitation is left to ad hoc arrangements of local governments and project proponents. To clarify these issues and reconcile gaps between LAA and ADB Policy, the HESCO will comply with the LARF prepared for the program, ensuring compensation at replacement cost for all items affected.

### 2.5 Land Classification

In terms of application of the LARF prepared for the program, identifying the type of land affected is an important step in determining whether land is to be compensated or not.

According to the LARF, the land classification, as well as, land use will be the basis for identifying the affected lands. They are: (i) urban versus rural lands; and, (ii) residential/commercial versus agricultural lands.

Urban or residential/commercial land affected by tower construction both in rural and urban areas will be considered as acquired permanently and land compensation will be paid to the affected households. Agricultural land in rural areas, instead, will not be considered as permanently affected as long as permanent cultivation and access remains possible under a tower and therefore will not be acquired and compensated, for this subproject cultivation under the towers will be possible after the construction. However, when land under a tower become un-accessible agricultural /rural land will be considered as permanently affected and as such acquired and compensated.

For the Project Urban and Rural areas will be identified based board of revenue records. Also for the Project residential, commercial and agricultural plots will be identified based on the classification provided by district revenue records or based on the actual use of the affected land prior to the entitlements cut-off date. In case of discordance between revenue records and actual, land will be treated on the basis of actual land use.

## 2.6 LAR Approaches for the Subproject

As specified in the LARF, the construction of Towers and Distribution lines will have to be carried based on the exercise of the right of Eminent Domain and will trigger the application of the ADB SPS. Impacts reparation for these items under the subproject will be carried out based on the compensation eligibility and entitlements framework presented in the next sections of this chapter.

## 2.7 Compensation Eligibility and Entitlements for the Project

Land acquisition tasks under the program, and for this HESCO subproject, will be implemented according to a compensation eligibility and entitlements framework in line with both Pakistan's law/regulation and the ADB SPS. The entitlement matrix for actual resettlement impacts is provided in the following Table 2.2.

**Table 2.2 – Compensation Eligibility and Entitlements Matrix**

| Asset        | Specification                        | Affected People | Compensation Entitlements   |
|--------------|--------------------------------------|-----------------|---|
| <b>Crops</b> | <b>Crops affected (damaged/lost)</b> | <b>363 AHs</b>  | <b>Tower/Line stringing impacts: Cash compensation at market rate based on actual impact for a maximum of 3 harvests.</b> |
| <b>Trees</b> | <b>Trees removed</b>                 | <b>170 AHs</b>  | <b>Cash compensation shall reflect income replacement</b>   |

## 2.8 Eligibility

The AHs entitled to compensations and/or rehabilitation under the program are:

All the AHs affected by temporary use of land; All AHs land owners or tenants and sharecroppers whether registered or not affected by crop and tree damage; Owners of buildings.

Compensation eligibility will be limited by a cut-off date to be set for each subproject on the stating day of the AH final census and impact assessment. AHs who settle in the affected areas after the cut-off date will not be eligible for compensation.

**Cut-off Date:** Compensation eligibility is limited by the cut-off date fixed by HESCO on completion of the detailed design, finalization of line route survey and census. The cut-off date for this sub-project is **September 18, 2014**. The AHs (that settle in the affected areas and/or

make changes in the land use patterns) after this cut-off-date will not be eligible for compensation. However the cut-off date will be communicated to the APs during the consultation process.

They will be allowed to reuse their salvaged material for free.

## **2.9 Compensation Entitlements**

Based on the impact, entitlement provisions for DHs include replacement value compensation for temporary loss of crop and loss of trees. These entitlements are detailed below:

- **Crops:** Cash compensation at current market rate for the harvest actually lost up to 3 harvests being as it may be winter or summer crop (for crops affected by towers); 1 harvest being as it may be summer or winter crop (for crops affected by the line stringing). Compensation will be paid both to the landowners and tenants based on their specific sharecropping agreements (if any).
- **Trees:** Cash compensation shall reflect income replacement for each of the affected fruit and wood tree.

## **2.10 Compensation Unit Rates based on Replacement Cost**

The methodology for assessing unit compensation values of different items is as follows:

- Houses/buildings valued at replacement valued based in the year of damage based on cost of materials, type of construction, labor, transport and other construction costs. No deductions will be applied for depreciation and transaction costs. However no structures are damaged in this case.
- Crops are valued at net market rates at the farm gate for the first year crop. In the eventuality that more than one-year compensation is due to the AHs the crops after the first will be compensated at net market value.
- Wood trees are valued based on the market rates.

## ASSESSMENT OF IMPACTS

### 3.1 Resettlement Field Survey

The finalized technical design of the subproject is a mandatory pre-requisite for carrying out the resettlement field surveys. The design included the identification and layout of the site and technical drawings showing the grid station and line profile with spotting of bases for towers. Having these pre-requisites, the RFS team undertook fieldwork by actively involving the HESCO's field staff. The impact assessment involved quantification and costing of affected area and assets through a participatory approach consultation with AHs and other community members.

The Reconnaissance Field Survey (RFS) fieldwork for the LARP was carried out in the subproject area in September 2014. The affected communities are clearly informed that no subsequent changes made in the land use pattern or construction of any structures will be entertained by HESCO for compensation under this subproject.

### 3.2 Minimization of Impacts

HESCO usually takes all possible steps to safeguard and minimize the likely adverse impacts on local communities in the design and implementation of its power distribution enhancement subprojects, involving construction of grid stations and transmission lines. Accordingly, the following specific actions will be applied to avoid and minimize the likely resettlement impacts (if any) of this subproject Transmission Line:

- Alignment of the transmission line and tower to tower spans are altered slightly to avoid both the compact housing and commercial areas and scattered farm-houses;
- A minimum clearance under the line required is **7 m**, which is maintained for the whole line, even by providing **2 m to 6 m leg** and/or body extension to the towers where required; and,
- Any built-up structures falling in the outer fringes of the 30m wide RoW are not removed, rather compensated for on the current repairing costs of the partial damages (if any). Only those structures which fall directly under the live power cables are removed and compensated for full relocation.

As a result, the transmission line traverses throughout the open lands, including private agricultural lands where only the agricultural crops, trees will partially affected by the execution work

### 3.3 Impacts of the Subproject

#### 3.3.1 General Description

Transmission Line of this subproject consists of the following sections:

- Section A: Larkana - Mehar (64,960 m long with 247 towers);
- Section B: Mehar - Dadu (62,760 m long with 224 towers);

The Larkana-Mehar-Dadu transmission line subproject involves the construction of a total 471 towers and stringing of 127.72 km long transmission line. As shown in Table 3.1 below, the transmission line will traverse private farmlands for 93% of its total length and the remaining 7% will traverse uncultivated lands (i.e., RoWs of canals, roads, etc.). No land will be acquired permanently for the transmission line. However, its construction and stringing works will affect crops and trees within the 30m wide safety corridor, for which compensations will be paid to the affected households based on the current market values.

**Table 3.1: Total Length of Transmission Line**

| Transmission Line Section  | Total Length of Transmission Line |                       | Total Length (m)  | % land        |
|----------------------------|-----------------------------------|-----------------------|-------------------|---------------|
|                            | Cultivated Land (m)               | Uncultivated land (m) |                   |               |
| A: Larkana - Mehar         | 61,922.50                         | 3,037.50              | 64,960.00         | 50.86         |
| B: Mehar - Dadu            | 56,803.50                         | 5,956.50              | 62,760.00         | 49.14         |
| <b>Total (Subproject):</b> | <b>118,726.00</b>                 | <b>8,994.00</b>       | <b>127,720.00</b> | <b>100.00</b> |
| <i>Percentages:</i>        | 92.96                             | 7.04                  | 100.00            | ---           |

The overall resettlement impacts and the affected households for each impact are shown in the following Table 3.2:

**Table 3.2: Overall Resettlement Impacts of the Subproject (Larkana-Mehrar-Dadu TL)**

| Affected Area    |                 | Affected Farmlands (Crops) |                   |                              |                   |             | Affected Wood Trees |             |
|------------------|-----------------|----------------------------|-------------------|------------------------------|-------------------|-------------|---------------------|-------------|
| Name of District | No. of Villages | No. of Towers              | Total Length (m)  | Total Area (m <sup>2</sup> ) | Total Area (Acre) | No. of AHS* | No. of Trees        | No. of AHS* |
| Larkana          | 51              | 238                        | 61,922.50         | 1,857,675                    | 459.04            | 190         | 129                 | 87          |
| Dadu             | 39              | 205                        | 56,803.50         | 1,704,105                    | 421.09            | 173         | 105                 | 83          |
| <b>Total:</b>    | <b>90</b>       | <b>443</b>                 | <b>118,726.00</b> | <b>3,561,780</b>             | <b>880.13</b>     | <b>363</b>  | <b>234</b>          | <b>170</b>  |

\* Of the total of 363 AHS suffering from loss of crops, 170 AHS may also suffer from loss of wood trees.

Compensation and rehabilitation for losses and impacts will be provided in accordance to the following matrix (see Table 3.3 below). This entitlements matrix contains provisions for the actual impacts of this Subproject, while an umbrella (LARF) entitlements matrix containing provisions for all potential impacts is provided the above chapters.

**Table 3.3: Compensation Eligibility and Entitlements Matrix for This Subproject**

| Asset   | Specification   | Affected People               | Compensation Entitlements   |
|---|---|-------------------------------|---|
| Arable Land temporarily affected by construction of towers or TL. | Access is not restricted and existing or current land use will remain unchanged by the construction of towers and transmission line | Farmer, Titleholder (363 AHS) | No land compensation provided that land is rehabilitated/restored to former quality following completion of works. Compensation, in cash, for all damaged crops and trees as per item below |
| Crops   | Crops affected (damaged/lost)   | All AHS (363 AHS)             | <u>Tower impacts:</u> Cash compensation at market rate based on actual impact for a maximum of 3 harvests<br><u>Line corridor stringing:</u> cash compensation at market rate of 1 harvest. |
| Trees (wood trees)  | All trees removed   | (170 AHS)                     | Cash compensation shall reflect income replacement  |

Major crops located is Rice. The compensation costs used herein are based on the unit rates obtained from Mukhtiarkars (Tehsildars) of Dadu, Meher and Larkana. (see Chapter 8 – Budget for detailed unit rates).

### 3.3.2 Impacts of Towers / Poles

The transmission line will require installation of 471 new towers. For these towers no private or public land will be acquired permanently, as none of the new towers will be constructed in an established urban or a developing housing area, and sufficient clearance will be provided under the towers for convenient mobility of tractors to allow the affected farmers to continue cultivating their lands without restriction.

The farmlands under and around towers will, however, be affected temporarily causing loss of crops and trees during the 3-tier process of tower construction: (i) construction of foundations, (ii) erection of towers, and (iii) stringing of power cables. According to the time schedule provided in Chapter 9, the whole process of construction and stringing is expected to be completed in a total period of 15 months, starting in September 2014 and ending by September 2015. Thus, it will cause crop losses for three consecutive cropping seasons, namely: (i) Rabi/winter season 2014-15, Wheat crop; and (ii) Kharif/summer season 2015 Rice crop, (iii) Rabi/winter season 2015-16, Wheat crop.

Out of the 471 towers, some 443 towers (94%) will be constructed on private farmlands. For tower installation, crops and trees in an area not only under the tower, but also in a small perimeter surrounding it as the access, working and storage areas, will be affected by the construction works. This area is assessed to be 0.223 Acre (900 m<sup>2</sup>) per tower. Thus, the 443 towers will affect temporarily a total of 98.6 Acres of farmlands, as shown in Table 3.4 below.

**Table 3.4: Temporary Impacts of Towers on Private Farmland**

| Transmission Line Section | No. of Towers | Affected Area  |      |
|---------------------------|---------------|----------------|------|
|                           |               | m <sup>2</sup> | Acre |
| A: Larkana - Mehar        | 238           | 214,200        | 53   |
| B: Mehar - Dadu           | 205           | 184,500        | 45.6 |
| Total                     | 443           | 398,700        | 98.6 |

### 3.3.3 Impacts of Transmission Line (TL Corridor)

The sections of the transmission line in between the towers (TL Corridor) will cause damage to, or loss of, crops during the stringing of power cables. This last activity is usually carried out rapidly, one stretch at a time, and completed in one cropping season, for which one-crop compensation will be paid. AHs will also be compensated for the loss of their trees that will be affected by the construction of the line located within the 30m wide corridor.

Tables 3.5 and 3.6 below show that length of the transmission line, excluding land under the towers, is 113,590 meter, with a total area of 842.05 Acre. Of the total corridor some 105,436 meter (93%) traverses private farmland and affects an area of 781.61 Acre while 8,154 meter is through uncultivated private or government land on an area of 60.44 Acre. The construction of towers, including the last stringing activity will affect three consecutive crops, and accordingly, AHs will be paid compensation for the loss of 3 crops. In contrast, the stringing activity of the transmission line (in-between the towers) will be the last activity, and it will affect only one crop (Wheat crop: 2015-16) for which all the AHs will be paid compensation for the loss of one crop. The affected trees will be compensated for once, based on the current market rates.

**Table 3.5: Distribution of Transmission Line Corridor\* by Type of Land**

| Transmission Line Section | Length of corridor (m) |                   | Affected Area (m <sup>2</sup> ) |                   | Affected Area (Acre) |                   |
|---------------------------|------------------------|-------------------|---------------------------------|-------------------|----------------------|-------------------|
|                           | Private Farmland       | Uncultivated Land | Private Farmland                | Uncultivated Land | Private Farmland     | Uncultivated Land |
| A: Larkana – Mehar        | 54,782.50              | 2,797.50          | 1,643,475                       | 83,025            | 406.11               | 20.51             |
| B: Mehar - Dadu           | 50,653.50              | 5,386.50          | 1,519,605                       | 161,595           | 375.50               | 39.93             |
| Total                     | 105,436.00             | 8,154.00          | 3,163,080                       | 244,620           | 781.61               | 60.44             |

\* The 30m wide strip of land in-between the towers (excl. 900 sq.m(0.223 Acre) perimeter area around the tower).

**Table 3.6: Temporary Land Impacts on Private Farmland in the TL Corridor\***

| Transmission Line Section | Number of AHs | Total Length (m) | Affected Area  |        |
|---------------------------|---------------|------------------|----------------|--------|
|                           |               |                  | m <sup>2</sup> | Acre   |
| A: Larkana - Mehar        | 190           | 54,782.50        | 1,643,475      | 406.11 |
| B: Mehar - Dadu           | 173           | 50,653.50        | 1,519,605      | 375.50 |
| Total                     | 363           | 105,436.00       | 3,163,080      | 781.61 |

\* The 30m wide strip of land located in-between the towers (excluding 900m<sup>2</sup> perimeter tower area).

### 3.4 Significance of Impacts

The construction of this transmission line is not causing any resettlement while the impact of the temporary effects on loss of crops will be minor or insignificant for all AHs. The AHs own relatively large farms with highly fertile land, and none will lose >10% of their total crop. The 30m wide corridor will be used temporarily as a working corridor for installation of the new towers and stringing of the power lines.

Moreover, there are no vulnerable people among AHs; none of the household is headed by a woman. Majority families are living in a joint/extended family system which also assists in providing a safety net against external economic shocks. Finally, the overall impacts on the villages are minor.



## **SOCIO-ECONOMIC PROFILE OF AFFECTED PEOPLE**

### **4.1 Census of Affected Households**

#### **4.1.1 Field Methodology**

After obtaining the pre-requisite location maps, field layout and profile drawings, revenue records and in-field assistance of a technical surveyor, intensive fieldwork has been carried out for preparing this LARP. The field methodology includes carrying out of RFS comprising 100% Census of AHs, and community consultation.

#### **4.1.2 General Information on Affected Households**

There are 363AHs with a total population of 2032 affected people (APs) impacted by the losses of crops. All of the participants in the Reconnaissance Field Survey (RFS) were the head of household. All the AHs are Muslims and are ethnically Sindhi and Baloch. The language of all APs is Sindhi and Balochi. In terms of social groups; they belong to Syed, Qazi, Mahesar, Junejo, Jatoti and various other tribes.

#### **4.1.3 Indigenous People**

None of the AHs are tribal or minority and all land is held in private ownership (i.e. no tribal or communal ownership). Therefore the standard provisions of the LARF and this LARP are sufficient to ensure an effective compensation process and the requirements of ADB *Policy on Indigenous People* are complied with. The ADB's policy, as specified in the Indigenous Peoples Development Framework (IPDF) prepared for the project is not triggered, and therefore neither an IPDP nor special action is required for this subproject.

### **4.2 Data on Heads of Affected Households**

All heads of AHs are male. In terms of marital status three hundred & sixteen (87 %) Head of AHs are married, forty (11 %) are unmarried and seven (2 %) are widower. In terms of age two hundred and twenty five household heads (62 %) are between 41 and 60 years, one hundred and nine (30 %) are between 61 and 75 years, twenty five (7 %) are young, aged between 30 and 40 years, and only 3 (1 %) of the head of households belongs to older age group (older than 75 years).

### **4.3 Data on Affected Households**

#### **4.3.1 General**

Households in the subproject area are large, with an average size of 5.6 people per household, and include joint or extended families. The smallest household is made up of 4 people while the largest household consists of 12 people. 48 % of all APs are female.

#### **4.3.2 Housing**

None of the AHs live in simple dwellings (constructed of thatch, sack, bamboo, clay or earth). All respondents stated that they live in houses constructed of brick and plastered mostly with mud and concrete.

#### **4.3.3 Livelihood and Incomes**

As all AHs rely on farming for at most part of their income, the tenure of agricultural land is an important factor in terms of security and sustainability of livelihood. Among the AHs, all household heads stated they are land owners. There are no households that rent or lease agricultural land and no squatters. None of the APs is a share cropper or a lease holder. The total farm size of AHs to be large, with an overall average of 60 Acres and a range from 40 Acres to 80 Acres. The primary livelihood sector is agriculture, accounting for 67% working APs, followed by 20% in waged employment and 13% in service, small business, trade or labour.

The per capita income of the villages in Larkana district is estimated at Rs. 11,000 while the villages of District Dadu have a per capita income between Rs.11,000 to Rs. 15,000.

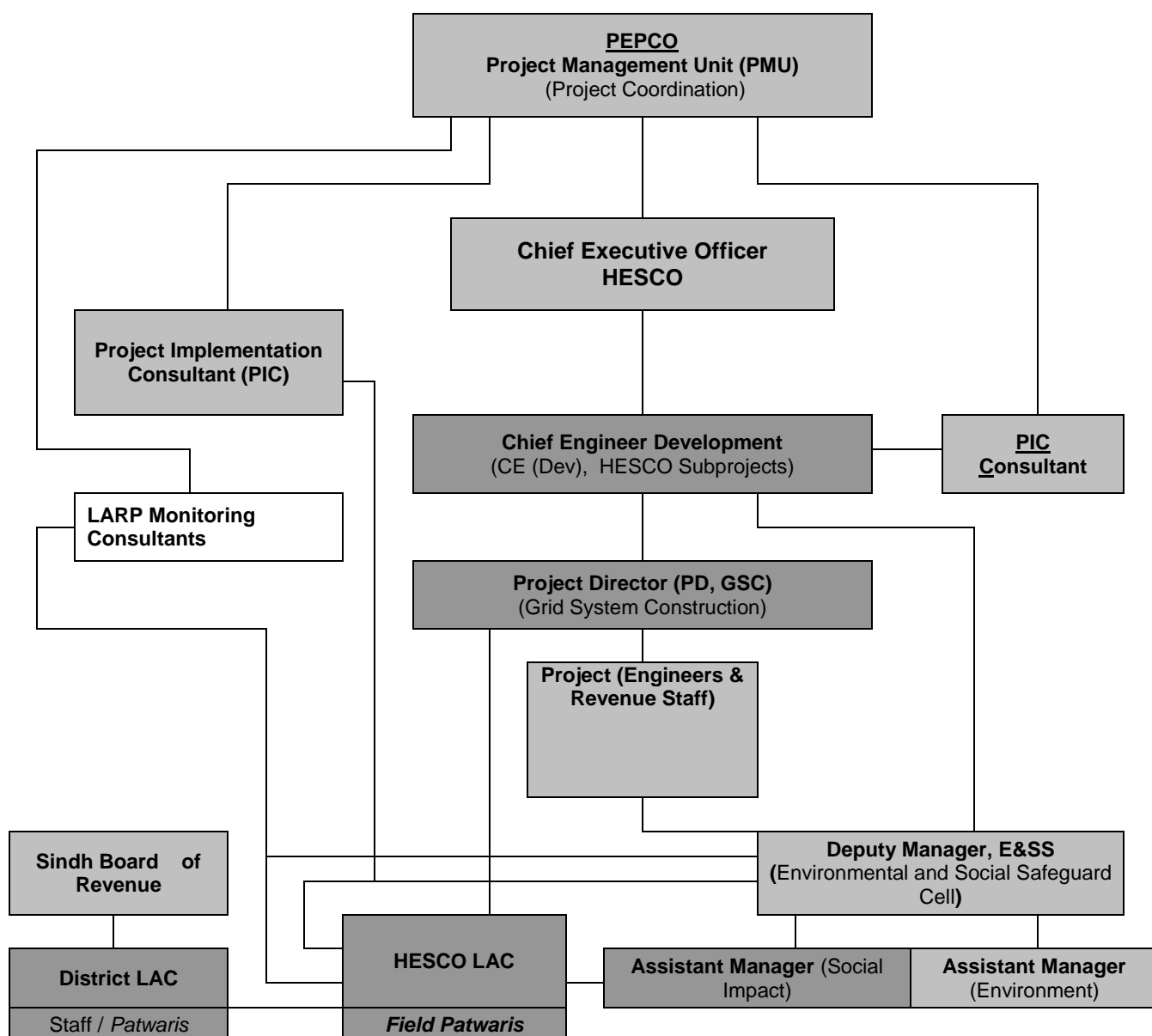
## INSTITUTIONAL ARRANGEMENTS

The institutional arrangements of planning and management of the Power Distribution Enhancement Program (or the ADB-funded Power Distribution Enhancement MFF Project) are described as follows in Figure 5.1:

### 5.1 Pakistan Electric Power Company (PEPCO)

**The Executing Agency:** The Project Management Unit (PMU), PEPCO is the focal organization based in Lahore responsible for the Power Distribution Enhancement Program, for keeping liaison with the Government of Pakistan and Asian Development Bank (ADB) on behalf of all the DISCOs, and taking care of disbursement of funds (including ADB loan) and technical assistance through Consultants to, and coordination of the Program planning and management activities of the DISCOs.

Figure 5.1: Organization for LARP Planning, Implementation and Monitoring



### 5.1.1 Distribution Companies (DISCOs)

The DISCOs included in the ADB-funded MFF Project (the Program) are:

- (1) PESCO: Peshawar Electric Supply Company, Peshawar, NWFP;
- (2) IESCO: Islamabad Electric Supply Company, Islamabad;
- (3) GEPCO: Gujranwala Electric Power Company, Gujranwala, Punjab;
- (4) LESCO: Lahore Electric Supply Company, Lahore, Punjab;
- (5) HESCO: Hyderabad Electric Supply Company, Hyderabad, Sindh;
- (6) MEPCO: Multan Electric Power Company, Multan, Punjab;
- (7) QESCO: Quetta Electric Supply Company, Quetta, Baluchistan; and,
- (8) FESCO: Faisalabad Electric Supply Company, Faisalabad Punjab.

### 5.1.2 Technical Assistance (Consultants)

PMU, PEPCO (EA) provides technical assistance to all the eight DISCOs through the project implementation and supervision Consultant.

## 5.2 Hyderabad Electric Supply Company (HESCO)

HESCO as the implementing agency (IA) bears the overall responsibility for the preparation, implementation and financing of all tasks set out in this LARP, as well as inter-agency coordination required for the implementation of the Subprojects. As such, it takes care of the preparation/updating and implementation of the LARPs and DDRs, and internal monitoring and evaluation activities. Institutionally, HESCO has three functional divisions, namely, the Planning, Projects and Grid System Construction divisions.

### 5.2.1 Planning Division

The **Planning Division** is responsible for preparation of PC-1s, for preparation of load forecasts and feeder analysis. The division is responsible for preparation of the Energy Loss Reduction (ELR) work orders. Formerly subproject preparation and keeping liaison with the Government of Pakistan and Asian Development Bank (ADB), as the donor of this MFF Project had also been the responsibility of this division. But lately the activity has been shifted to the Office of General Manager Development.

### 5.2.2 Chief Engineer Development

The former **Projects Division** has now been named as the Chief Engineer **Development (CE Dev)**, is responsible for the overall planning, management and coordination of the approved Subprojects. The CE (Dev) was assisted by the PPTA Consultants (including the Resettlement Experts responsible for LARP/DDR preparation), in preparing the identified Subprojects in line with the ADB Policies, and obtaining approval from the donor ADB. Its major functions include keeping regular liaison with ADB and relevant departments of the federal, provincial and district governments, preparation, updating and implementation of the LARPs and the related monitoring and evaluation activities.

The HESCO has already established an **Environmental and Social Safeguard Cell (E&SS)** to take care of safeguards related activities. It is headed by a Deputy Manager, and assisted by two Assistant Managers, Environmental and Social Safeguards, respectively. He will be responsible for the LARP preparation/updating, implementation and internal monitoring for each Subproject.

To support the E&SS, to carry out its responsibilities, a Monitoring Consultant (SMEC) is hired. In addition, a Project Implementation Consultant (PIC) has been hired to support E&SS.

### 5.2.3 Grid System Construction (GSC) Directorate

The Grid System Construction (GSC) Directorate is responsible for implementing the approved subprojects, including construction/improvement of grid stations and transmission lines. This office is headed by the Project Director (GSC), comprising Engineers and *Patwaris*, at each

Subproject. The PD GSC has an in-house Assistant Land Acquisition Officer (ALAO) to take care of the land acquisition and resettlement activities.

The HESCO LAC, along with field *Patwaris*, in addition to implementation of the LARP activities, will provide in-field assistance to the Resettlement Experts of E&SS. He normally works as an independent entity, but in case of local needs like price updating, grievance redress, etc., may involve the local Union Councils and other leaders at the local levels, and/or the District LACs and Sindh Board of Revenue for addressing broader level matters and resolving permanent Land Acquisition issues (not applicable to this Subproject). He will be provided technical assistance by the Resettlement Experts of E&SS.

### **5.3 District Government**

The district governments have jurisdiction for land administration, valuation and acquisition. At the provincial level these functions rest on the Sindh Board of Revenue while at the district level they rest on the District Land Acquisition Collector (District LAC). Within LAC office the *Patwari* (land records clerk), carry out specific roles such as titles identification and verification. But as this Subproject does not require any land acquisition, involvement of District LACs will normally be not required by HESCO LAC.

### **5.4 Responsibility of Internal Monitoring**

Internal monitoring is being carried out by E&SS with support from the project implementing and supervision consultant. Bi-annual monitoring reports are also being submitted to ADB. All monitoring reports will be disclosed on DISCOs website and disclosed to the APs.

## **CONSULTATION AND DISCLOSURE**

### **6.1 Consultation Undertaken for the LARP**

The reconnaissance consultative process undertaken for the preparation of this LARP in September 2014 has not only included AHs, but also the local communities of the area. Public consultation was held along the transmission line route. Special attention was paid to identify the needs of vulnerable groups (such as the poor, women, and elderly), to ensure that their views have been considered in the formulation of the LARP.

Consultation with stakeholders at the different stages of the subproject is required by ADB's Policy on Involuntary Resettlement and as provided for in the LARF. To start with, consultations with the AHs were conducted as part of inventory taking of affected lands and other assets. The communities' and especially the AHs' responses to the proposed subproject were found to be positive.

Along with the participatory RFS, semi-structured discussions aiming at community awareness and consultations regarding the project's likely impacts were also held with the small groups along the proposed transmission line. During detailed consultation sessions, the cut-off-date for compensation eligibility was communicated to all participants. They were clearly told that no subsequent changes in the land use would be entertained by HESCO.

The affected communities concerns and suggestions have been incorporated into subproject design and will be implemented as an integral part of resettlement activities. The major concerns raised during the consultation included the adequacy and timeliness of compensation payments, as well as safety measures to be taken during the construction of the towers and stringing of the transmission lines. In response, HESCO will make sure that the crop compensation amounts are assessed justly and paid to the AHs, at least fifteen days prior to temporary use of land before starting the civil works.

The local communities' response (awareness, perceptions and preferences) to the transmission line subproject and resettlement related matters are summarized as follows:

- This subproject is necessary under the current local conditions;
- Compensation should be fair and should be delivered before start of work;
- Local skilled and unskilled labor should be used wherever possible;
- Damaged lands should be rehabilitated after the construction work is completed;
- Local norms should be honored; and
- Construction work should be completed in time.

### **6.2 Compensation Options Discussed**

In addition to the focus group discussions and consultative meetings described above, the survey included a questionnaire with several questions regarding AHs' preferences for compensation and rehabilitation options. This information has been and will be used to assist in determining the support measures required by AHs. The first compensation priority of all AHs was for cash. When asked why they preferred cash compensation, almost all the AHs stated the reason was to assist with daily living expenses as they will lose their livelihood in the shape of crops. In summary, the compensation and resettlement options discussed and agreed upon during the consultation meetings included:

- Relocation - not applicable;
- Assistance - not applicable;

### **6.3 LARP Disclosure**

An English version of the program's updated LARF has already been uploaded to HESCO & ADB websites for Tranche-I&II. The updated LARP for tranche- II, after Approval from ADB, will be placed at HESCO Website. Accordingly a Urdu version of LARP will be made available by PMU, and will be disclosed in the project area.

In line with ADB's public communications policy, this LARP in English will also be posted on the HESCO websites, while its translation in Urdu will be disclosed to the AHs and will also be distributed in the project affected villages and posted on the HESCO websites. In addition, a Public Information Brochure (PIB) in Urdu summarizing compensation provisions will be sent to all AHs.

## 7. GRIEVANCE REDRESS PROCESS

HESCO normally takes care to prevent grievances rather than going through a redress process. This can be obtained through careful LAR design and implementation, by ensuring full participation and consultation with AHs, and by establishing extensive communication and coordination between the community and HESCO. Nevertheless, a grievance mechanism will be made available to allow an AH appealing against any disagreeable decision, practice or activity arising from compensation for the affected land or other assets. AHs will be fully informed of their rights and of the procedures for addressing complaints verbally during consultation meetings and through Public Information Brochures-PIB in Urdu.

A complaints register will be kept at the Project Management Unit (PMU) office to be maintained by E&SS Cell. HESCO will inform the AHs of the availability of this arrangement through PIB in Urdu. The complaints received will be processed and resolved by the HESCO's Grievance Redressal Committee.

All the finances will move directly from HESCO to the AHs, as price for compensation for the losses of agricultural crops. The complaints and grievances will be normally addressed by HESCO locally by involving local leadership and Union Councils, and the involvement District Government/Courts may be required only for the unresolved grievances, as described in Table 7.1 below.

**Table 7.1: Grievance Resolution Process**

| <b>Sr. #</b> | <b>Crops Structures &amp; Tree Compensation Issues</b>  | <b>Other Compensation or Project Issues</b>   |
|--------------|---|---|
| 1            | First, complaints resolution will be attempted at village level through the involvement of the E&SS, district government, and/or informal mediators.  | First, complaints resolution will be attempted at village level through the involvement of the E&SS, district government, and/or informal mediators.  |
| 2            | If still unsettled, a grievance can then be lodged to the LAC who has 30 days to decide on the case.  | If still unsettled, a grievance can be lodged to the PMU/E&SS, which will have 30 days to respond.  |
| 3            | If no solution was reached a grievance can be lodged with support of the E&SS to the HESCO. The AH must lodge the complaint within 1 month of lodging the original complaint with the LAC and must produce documents supporting his/her claim. The HESCO will provide the decision within 21 days of registering the complaint. The HESCO decision must be in compliance with this LARF provisions. | If no solution was reached a grievance can be lodged with support of the E&SS to the HESCO. The AH must lodge the complaint within 1 month of lodging the original complaint with the LAC and must produce documents supporting his/her claim. The HESCO will provide the decision within 21 days of registering the complaint. The HESCO decision must be in compliance with this LARF provisions. |
| 4            | Should the grievance redress system fail to satisfy the AH, they can further submit their case to the appropriate court of law as per the process set out in Sections 18 to 22 of the LAA (1894).   | Should the grievance redress system fail to satisfy the AH, they can further submit their case to the appropriate court of law as per the process set out in Sections 18 to 22 of the LAA (1894).   |



## BUDGET FOR LAND AND ASSET ACQUISITION

### 8.1 Basis for Compensation

To comply with ADB's SPS for involuntary resettlement policy, rates used to compensate for lost land and assets must be at replacement values, to "at least" restoring people's livelihoods and ensuring that people affected by a project are not left worse off.

According to the ADB's Safeguard Policy Statement, "The calculation of the full replacement cost is based on the following (i) fair market value (ii) transaction costs (iii) interest accrued (iv) transitional and restoration costs and (v) other applicable payments if any. Where market conditions are absent or in a formative stage, the borrower/client will consult with the displaced persons and host populations to obtain adequate information about recent land transactions, land value by types, land titles, land use, cropping patterns and crop production, availability of land in the project area and region and other related information. The borrower/client will also collect baseline data on housing, and construction materials. Qualified and experienced experts will undertake the valuation of acquired assets in applying method of valuation, depreciation of structures and assets should not be taken into account".

### 8.2 Determining the Rates for Compensation

Based on the foregoing requirements and the LARF provisions, the methodology for assessing unit compensation values of the different items is described as follows:

- Crop compensation was valued at net farm-gate market rates. If additional crops compensation is due it will be calculated at market value minus inputs. Compensation for crops affected by towers is three-crops and for stringing of the lines is for one-crop; and,
- Wood trees were valued based on type, size, and age. AHs are entitled to keep the wood (as salvaged material) without any deductions from the amount of compensation.
- Structures compensation based on replacement value in the year damages occur.

The valuation survey registered recent current crop and tree sales at markets and was based on AH and community consultation, and the relevant District Government agencies like Revenue department. The results of the survey are provided in the tables below. The prices of affected assets given herein are based on the official revenue rates collected in June 2014 from the three talukas i-e Dadu, Meher and Larkana.

The subproject area is not a fairly fertile agricultural area, and there are some areas of barren lands, too. But in most of the area Wheat and Rice crops are grown. All the affected farmers grow Wheat in the *Rabi*/winter season and Rice in *Kharif*/summer season. For the purpose of compensation average of the price of wheat and Rice are used which is shown in table 8.1 below, and the areas under Wheat and Rice are shown in Tables 8.2 and 8.3 below.

**Table 8.1: Rate/Price for Crops in Subproject Area**

| Cropping Season        | Affected Crop |       | Average Crop Income per Unit Area (Rs.) |              |
|------------------------|---------------|-------|---|--------------|
|                        | No.           | Name  | Acre (basis)                            | Square Meter |
| Rabi (Autumn-Winter)   | 1             | Wheat | 54,296                                  | 13.41        |
| Kharif (Spring-Summer) | 2             | Rice  | 71,489                                  | 17.66        |
| <b>Sum Total:</b>      |               |       | 125,785                                 | 31.07        |
| <i>Average :</i>       |               |       | 62,893                                  | 15.53        |

**Table 8.2: Assessment of Crop Compensation for Towers**

| Season        | Affected Crops | No. of Towers | Cropped Area Affected (Acre) | Compensation Assessed |                   |
|---------------|----------------|---------------|------------------------------|-----------------------|-------------------|
|               |                |               |                              | Rate (Rs./Acre)       | Amount (Rs.)      |
| Rabi 2014-15  | Wheat          | 443           | 98.6                         | 54,296                | 5,353,586         |
| Kharif 2015   | Rice           | 443           | 98.6                         | 71,489                | 7,048,815         |
| Rabi 2015-16  | Wheat          | 443           | 98.6                         | 54,296                | 5,353,586         |
| <b>Total:</b> |                |               |                              |                       | <b>17,755,987</b> |

\* Cropped area affected by construction of one tower is estimated at 900 m<sup>2</sup> (30m x 30m) or 0.223 Acre

**Table 8.3: Assessment of Crop Compensation for Transmission Line**

| Cropping Season | Affected Crops | TL Corridor Length (m) | Cropped Area (Acre) | Compensation Assessed |                   |
|-----------------|----------------|------------------------|---------------------|-----------------------|-------------------|
|                 |                |                        |                     | Rate (Rs./Acre)       | Amount (Rs.)      |
| Rabi/Kharif     | Rice / Wheat   | 50,653.50              | 375.5               | 62,893                | 23,616,321        |
| <b>Total:</b>   |                |                        |                     |                       | <b>23,616,321</b> |

\* TL's right-of-way falling in-between any two towers have been termed as TL Corridor.

**Table 8.4: Assessment of Compensation for Affected Wood Trees**

| No.          | Name of Affected Wood Tree | Affected Wood Trees (No.) | Market Rate (Rs.) | Compensation Amount (Rs.) |
|--------------|----------------------------|---------------------------|-------------------|---------------------------|
| 1            | Babar/Anacianilotica       | 135                       | 2,200             | 297,000                   |
| 2            | Taali                      | 62                        | 12,000            | 744,000                   |
| 3            | Bed Mushq                  | 15                        | 7,000             | 105,000                   |
| <b>TOTAL</b> |                            |                           |                   | <b>1,146,000</b>          |

**Table 8.5: Assessment of Compensation for Affected Fruit Trees**

| No.          | Name of Affected Wood Tree | Affected Fruit Trees (No.) | Market Rate (Rs.) | Compensation Amount (Rs.) |
|--------------|----------------------------|----------------------------|-------------------|---------------------------|
| 1            | Bair                       | 22                         | 6,000             | 132,000                   |
| <b>TOTAL</b> |                            |                            |                   | <b>132,000</b>            |

**8.4 Budget for the SRP**

This LARP will cost Rs. 53.9 million i.e. US\$ 534,184 and itemized detailed as given in table 8.4.

**Table 8.6:-Estimated Resettlement Cost of Transmission Line (HESCO)**

| No.                         | Resettlement Activity           | No.        | Unit          | Rs./Unit              | Total Rs.            |
|-----------------------------|---------------------------------|------------|---------------|-----------------------|----------------------|
| <b>A.</b>                   | <b>Compensation:</b>            | -          | -             | -                     | <b>42,650,308</b>    |
| <b>A.1</b>                  | <b>Trees</b>                    | <b>234</b> | <b>Number</b> |                       | <b>1,278,000</b>     |
| A.1.1                       | Wood Trees                      | 212        | Number        |                       | 1,146,000            |
| A.1.2                       | Fruit Trees                     | 22         | Number        |                       | 132,000              |
| <b>A.2</b>                  | <b>Crops:</b>                   |            |               |                       | <b>41,372,308</b>    |
| A.2.1                       | Towers:                         | 98.6       | Acre          |                       | 17,755,987           |
| A.2.2                       | TL Corridor:                    | 37.5       | Acre          |                       | 23,616,321           |
| B.                          | Administration Costs (15% of A) | --         | --            | 15 % of<br>42,650,308 | 6,397,546            |
| C.                          | Subtotal (A+B)                  | -          | -             | -                     | 49,047,854           |
| D.                          | Contingency (10% of C)          | -          | -             | 10 % of<br>49,047,854 | 4,904,785            |
| Total Amount (Pak. Rupees): |                                 | -          | -             |                       | 53,952,639           |
| Total Amount (US Dollars*): |                                 | -          | -             |                       | <b>US \$ 534,184</b> |

\* US\$ 1.00 = Rs. 101.00

## 9. Implementation Schedule

This LARP has been revised by HESCO based on the market replacement prices/costs of the affected assets are used after the line route survey finalized and prior to civil works commencement. Final compensations will also be paid to all the AHs at least one month prior to actual mobilization of the Contractor to commence the construction/stringing works for any given section of work based on the construction schedule.

The Civil works contractors will not be issued possession of site for any section of construction/stringing works unless HESCO has (i) made full payments to the APs and fully implemented the approved LARP, as confirmed by external monitor(ii) the area required for civil works is free of all encumbrances. The LARP implementation schedule, shown in Table 9.1, envisages the following sequence of activities:

The activities to be considered for preparation of Final LARP implementation schedule (upon contract award):-

- (a) The technical survey, design preparation/finalization and site demarcation of the Subproject. RFS would be undertaken jointly by the Consultant and HESCO;
- (b) LARP up-dation and finalization has been undertaken by the E&SS

### Implementation Schedule

| LARP Activity/Task |   | Responsibility |           | Year 2014 |    |     |    | Year 2015 |    |     |    |
|--------------------|---|----------------|-----------|-----------|----|-----|----|-----------|----|-----|----|
|                    |   | Primary        | Secondary | I         | II | III | IV | I         | II | III | IV |
|                    | Preparation of LARP                             | HESCO          | E&SS/PMU  |           |    |     |    |           |    |     |    |
|                    | Disclosure of the LARP                          |                |           |           |    |     |    |           |    |     |    |
|                    | Information dissemination to Affected People    | HESCO          | E&SS/PMU  |           |    |     |    |           |    |     |    |
|                    | Initial payment of compensations                | HESCO          | E&SS      |           |    |     |    |           |    |     |    |
|                    | Submit monitoring report to ADB for clearance   | HESCO          | E&SS      |           |    |     |    |           |    |     |    |
|                    | Grievance Redress Process                       | HESCO          | E&SS/PMU  |           |    |     |    |           |    |     |    |
| Construction       | Temporary possession of land for starting works | Dist. LACs     | HESCO     |           |    |     |    |           |    |     |    |
|                    | Contractor mobilized to start work              | Contractor     | HESCO     |           |    |     |    |           |    |     |    |
|                    | Commencement of Civil Works                     | Contractor     | HESCO     |           |    |     |    |           |    |     |    |

## **10. Monitoring and Evaluation**

Monitoring and Evaluation (M&E) are critical activities in involuntary resettlement caused by various infrastructure development projects, like this Power Distribution Enhancement project. Monitoring involves periodic checking to ascertain whether activities are progressing as per schedule while evaluation is essentially a summing up, at the end of the project, assessment of actual achievement in comparison to those aimed at during the implementation.

The HESCO through E&SS and support from the consultant will be responsible for internal monitoring. Both the Resettlement Specialists will be provided field-types vehicles for field visits and carrying out their respective monitoring and evaluation activities in the Subproject area.

### **10.1 Internal Monitoring**

The LARP includes indicators and benchmarks for achievement of the objectives under the resettlement program, which can be categorized as follows:

- Process indicators, which include project inputs, expenditures, staff deployment;
- Output indicators are results in terms of numbers of APs compensated for their Affected assets (land, crops and/or trees), and,
- Impact indicators related to the long-term effect of the project on people's lives in the project-Affected area.

The first two types of indicators, related to process and immediate outputs and results, will be monitored internally by E&SS. This information will be collected from the project site and assimilated in the form of a bi-annual progress report to assess the progress and results of LARP implementation, and adjust the work program, where necessary, in case of any delays or problems.

Specific activities under LARP implementation to be monitored are the following:

- Information campaign and consultation with AHs on a continued basis;
- Status of payments of crop and tree compensations;
- Status of restoration of damaged community infrastructure (water pipelines, irrigation channels / watercourses, drains, roads, streets, etc.)
- Grievances redress activities
- Disclosure

The E&SS will be responsible for monitoring the day-to-day resettlement activities of the subproject. The socio-economic census and land acquisition data will provide the necessary benchmark for field level monitoring. A performance data sheet will be developed to monitor the project at the field level. Quarterly reports will be received from the field offices and LAC/GSC will be responsible for overall project level monitoring.

### **10.2 Resettlement Databank**

All information concerning resettlement issues related to land acquisition, socio-economic information of the acquired land; inventory of crop and tree losses by individual AHs, compensation and entitlements and payments will be collected by E&SS and the Consultants through their concerned field offices and computerized by the E&SS, at PMU-HESCO in Hyderabad. This databank will form the basis of information for implementation, monitoring and reporting purposes and facilitate efficient resettlement management.

### **10.3 Reporting Requirements**

The E&SS will be responsible for supervision and implementation of LARP and will prepare bi-annual progress reports on resettlement activities and submit the same to the ADB for review and approval. These internal quarterly monitoring reports will also highlight the bottlenecks and recommend ways and means to improve implementation including corrective action plans (CAPs) as relevant CAPs will be disclosed.

The HESCO through E&SS will be responsible for internal monitoring. The Resettlement Specialist will provide necessary technical assistance in implementing and monitoring

the resettlement activities. Bi-annual reports will be forwarded to ADB. All monitoring reports will be disclosed to the AHs and HESCO's website.

## Appendix 1: Legal & Policy Framework

### Land Acquisition Act, 1894

With the exception of impacts caused by poles and towers for public utilities land acquisition in Pakistan is regulated by the Land Acquisition Act, 1894 (LAA) with its successive amendments is the main law regulating land acquisition for public purpose. The LAA has been variously interpreted by local governments, and some province has augmented the LAA by issuing provincial legislations. The LAA and its Implementation Rules require that following an impacts assessment/valuation effort, land and crops are compensated in cash at market rate to titled landowners and registered land tenants/users, respectively. The LAA mandates that land valuation is to be based on the latest three years average registered land sale rates, though, in several recent cases the median rate over the past year, or even the current rates, have been applied. Due to widespread land under-valuation by the Revenue Department, current market rates are now frequently used with an added 15% Compulsory Acquisition Surcharge as provided in the LAA.

Based on the LAA, only legal owners and tenants registered with the Land Revenue Department or possessing formal lease agreements, are eligible for compensation or livelihood support. The rights of the non-titled are however addressed under the 1986 Punjab Jinnah Abadis for Non-proprietors in Rural Areas Act which recognize to squatters the right to receive rehabilitation in form of a replacement plot. It is to be noted that this right has been sometimes extended in practice to include some form of rehabilitation in cash or in forms different from land. Projects such as Chotiari Dam, Ghazi Barotha Hydropower, and National Highways Improvement, have awarded compensation and assistance to unregistered tenants and other forms of AH (sharecroppers/squatters).

It is also noted that the LAA does not automatically mandate for specific rehabilitation/assistance provisions benefiting the poor, vulnerable groups, or severely affected APs, nor it automatically provides for rehabilitation of income/livelihood losses or resettlement costs. This however is often undertaken in many projects in form of ad hoc arrangements based on negotiations between a specific EA and the APs.

As noted above, there are exceptions to the rule and the law is broadly interpreted at provincial level depending on operational requirements, local needs, and socio-economic circumstances. Recourse is often taken to ad hoc arrangements, agreements and understandings for resettlement in difficult situations. The above is also influenced by the fact that an amendment of the LAA has been considered necessary by the Ministry of Environment. Accordingly, a National Resettlement Policy and a Resettlement Ordinance have been drafted to broaden LAA provisions and current practices so as to widen the scope of eligibility, but both these documents are still awaiting Government approval for implementation.

The right to acquire land for public purposes is established when Section 4 of LAA is triggered. The LAA specifies a systematic approach for acquisition and compensation of land and other properties for development projects. It stipulates various sections pertaining to notifications, surveys, acquisition, compensation and apportionment awards, along with disputes resolution, penalties and exemptions. Surveys for land acquisition are to be disclosed to the displaced persons.

### **SALIENT FEATURES OF PAKISTAN'S LAND ACQUISITION ACT, 1894 (AMENDED)**

| Key Section | Salient Features of Pakistan's LAA   |
|-------------|--|
| Section 4   | Publication of preliminary notification and power for conducting survey and investigation. |

| Key Section | Salient Features of Pakistan's LAA   |
|-------------|--|
| Section 5   | Formal notification of land needed for a public purpose.   |
| Section 5A  | <i>Providing right of complaints to DPs for review/enquiry of quantities and compensations</i>   |
| Section 6   | The Government makes a more formal declaration of intent to acquire land.  |
| Section 7   | Land Commissioner shall direct Land Acquisition Collector (LAC) to take order for the acquisition of land.   |
| Section 8   | The LAC to direct the land required to be physically marked out, measured and planned.   |
| Section 9   | The LAC gives notice to all affected/displaced persons (DPs) that the Government intends to take possession of the land and if they have any claims for compensation then those claims are to be made to him at an appointed time. |
| Section 10  | Delegates power to the LAC to record statements of DPs in the area of land to be acquired or any part thereof as co-proprietor, sub-proprietor, mortgagee, and tenant or otherwise.  |
| Section 11  | Enables the LAC to make enquiries into the measurements, value and claim and then to issue the final "award". The award includes the land's marked area and the valuation of compensation.   |
| Section 16  | When the LAC has made an award under Section 11, he will then take possession and the land shall thereupon vest absolutely in the Government, free from all encumbrances.  |
| Section 17  | <i>Urgency acquisition whereby land possession is taken prior to payment of compensation</i>   |
| Section 18  | In case of dissatisfaction with the award, DPs may request the LAC to refer the case onward to the court for a decision. This does not affect the Government taking possession of the land.  |
| Section 23  | The award of compensation for the owners for acquired land is determined at its market value plus 15% in view of the compulsory nature of the acquisition for public purposes.   |
| Section 28  | Relates to the determination of compensation values and interest premium for land acquisition  |
| Section 31  | Authorizing LAC, instead of awarding cash compensation in respect of any land, to make any arrangement with DPs having an interest in such land, including grant of other lands in exchange.                                       |



### **Telegraph Act (TA), 1885**

In case of impacts caused by poles and towers for public facilities and transmission lines land acquisition is not regulated by the LAA but instead by the Telegraph Act, 1885 (amended in 1975). The TA has been adopted by the DISCOS for the construction and maintenance of transmission/distribution lines. The TA was conceived in the British era for telegraphic poles and then was passed to post-independence Pakistan with a broader application covering also electric poles and towers. The original provision of this law was that the land occupied by telegraph poles was not to be compensated (only crops destroyed during the erection of the pole were compensated). This was based on the logic that a pole, covering only a negligible land area, does not cause substantial impacts to land users. This however is no longer the case once the same provision is extended to transmission towers.

The Telegraph Act (section 11) confers powers on the DISCOS to enter private lands and (section 10) construct/maintain electric poles and lines without the need to acquire the land affected and paying compensation for it. However sub-section 10 (d), provides that a DISCO is required to avoid causing unnecessary damages to the affected land and associated assets. Finally section 16 provides that if any such damage occurs (i.e. damages to crops, irrigation facilities, land quality or land income) The Facility proponent has to provide just compensation for the damages caused.

To accommodate the DPs needs under this Program the DISCOs have agreed to apply the Telegraphic act liberally by: (i) compensating at market rates all land occupied by towers in urban areas; (ii) by avoiding land impacts in rural areas through the use of towers with sufficient vertical clearance to allow the continuation of unrestricted farming and animal grazing, and (iii) if the construction of such towers is impossible, by compensating the land occupied by tower bases land also in rural areas. In addition the DISCOs will compensate by default all crops expected to be affected by the 3 major transmission line (TL) construction phases: (i) land survey and investigation; (ii) construction of tower bases; and (iii) tower erection and stringing of power lines.

The Katchi Abadi Act (KAA) of 1987

The Katchi Abadi Act (KAA) covers the urban squatters rehabilitation rights by providing plots in public resettlement areas or cash assistance. Based on the KAA the DISCOs will provide rehabilitation compensation to eventual squatters/encroachers affected by The Facility.

### **ADB's Safeguard Policy Statement**

The ADB's *Safeguard Policy Statement* is based on the following principles: The SPS requires ADB-assisted projects to (i) avoid resettlement impacts wherever possible; (ii) minimize impacts by exploring project and design alternatives; (iii) enhance, or at least restore, the living standards of DPs in real terms relative to pre-project levels; and (iv) improve the living standards of the poor and other vulnerable groups. It covers both physical displacement (relocation, loss of residential land, or loss of shelter) and economic displacement (loss of land, assets, access to assets, income sources, or means of livelihoods) as a result of land acquisition or restriction on land use, or on access to parks and protected areas.

The SPS's key policy principles are stated in Appendix D. The ADB's SPS also states that if there are impacts on indigenous peoples, their identity, dignity, human rights, livelihood systems, and cultural uniqueness must be safeguarded so that they can receive culturally appropriate social and economic benefits. The other relevant policy is ADB's Policy on Gender and Development, which requires all ADB-financed projects to enhance involvement of and benefits to women.

Where there are gaps between Pakistan laws and the ADB's SPS requirements on land acquisition and resettlement, this LARF requires that these gaps are filled by measures to meet the minimum SPS stipulations.

### **Pakistan Land Acquisition Act and ADB's SPS Gap Filling Measures**

| <b>S<br/>#</b> | <b>ADB Safeguards Policy Principles</b>  | <b>Pakistan's Land Acquisition &amp; Telegraph Acts</b>  | <b>ADB SPS Involuntary Resettlement Principle<br/><br/>Gap filling Measures</b>   |
|----------------|--|--|---|
| 1              | Screen the project early on to identify past, present, and future involuntary resettlement impacts and risks.<br><br>Determine the scope of resettlement planning through a survey and/or census of displaced persons, including a gender analysis, specifically related to resettlement impacts and risks.  | No equivalent requirements.  | Screened and categorized. Scope defined, social assessment and gender analysis undertaken.  |
| 2              | Carry out meaningful consultations with affected persons, host communities, and concerned nongovernment organizations. Inform all displaced persons of their entitlements and resettlement options. Ensure their participation in planning, implementation, and monitoring and evaluation of resettlement programs. Pay particular attention to the needs of vulnerable groups, especially those below the poverty line, the landless, the elderly, women and children, and Indigenous Peoples, and those without legal title to land, and ensure their participation in consultations. Establish a grievance redress mechanism to receive and facilitate resolution of the affected persons' concerns. Support the social and cultural institutions | Land Acquisition Collector (LAC) or District Judge (in case of the Telegraph act) are the final authorities to decide disputes and address complaints regarding quantification and assessment of compensation for the affected lands and other assets. | Complaints and grievances are resolved informally through project grievance redress mechanisms<br><br>Consultations conducted, vulnerable groups identified and supported as relevant |

|   |  |                             |  |
|---|--|-----------------------------|--|
|   | of displaced persons and their host population. Where involuntary resettlement impacts and risks are highly complex and sensitive, compensation and resettlement decisions should be preceded by a social preparation phase.   |                             |  |
| 3 | <p>Improve, or at least restore, the livelihoods of all displaced persons through (i) land-based resettlement strategies when affected livelihoods are land based where possible or cash compensation at replacement value for land when the loss of land does not undermine livelihoods, (ii) prompt replacement of assets with access to assets of equal or higher value, (iii) prompt compensation at full replacement cost for assets that cannot be restored, and (iv) additional revenues and services through benefit sharing schemes where possible.</p> | No equivalent requirements. | <p>Livelihoods restoration is required and allowances are provided.</p> <p>The rate of compensation for acquired housing, land and other assets will be calculated at full replacement costs. The calculation of full replacement cost will be based on the following elements: (i) fair market value; (ii) transaction costs; (iii) interest accrued, (iv) transitional and restoration costs; and (v) other applicable payments, if any. Where market conditions are absent or in a formative stage, the borrower/client will consult with the displaced persons and host populations to obtain adequate information about recent land</p> |

|   |  |                             |  |
|---|--|-----------------------------|--|
|   |  |                             | <p>transactions, land value by types, land titles, land use, cropping patterns and crop production, availability of land in the project area and region, and other related information. The borrower/client will also collect baseline data on housing, house types, and construction materials. Qualified and experienced experts will undertake the valuation of acquired assets. In applying this method of valuation, depreciation of structures and assets should not be taken into account.</p> <p>Provided as relevant.</p> |
| 4 | <p>Provide physically and economically displaced persons with needed assistance, including the following: (i) if there is relocation, secured tenure to relocation land, better housing at resettlement sites with comparable</p> <p>access to employment and production opportunities, integration of resettled persons economically and socially into their host communities, and extension of project benefits to</p> | No equivalent requirements. | Support provided commensurate with impacts   |

|   |  |   |   |
|---|--|---|---|
|   | host communities; (ii) transitional support and development assistance, such as land development, credit facilities, training, or employment opportunities; and (iii) civic infrastructure and community services, as required.  |   |   |
| 5 | Improve the standards of living of the displaced poor and other vulnerable groups, including women, to at least national minimum standards. In rural areas provide them with legal and affordable access to land and resources, and in urban areas provide them with appropriate income sources and legal and affordable access to adequate housing. | No additional support to vulnerable households  | Vulnerable households identified and support provided   |
| 6 | Develop procedures in a transparent, consistent, and equitable manner if land acquisition is through negotiated settlement to ensure that those people who enter into negotiated settlements will maintain the same or better income and livelihood status.  | Equivalent, negotiation responds to displaced persons requested price but no clear procedure. | Procedures put in place.  |
| 7 | Ensure that displaced persons without titles to land or any recognizable legal rights to land are eligible for resettlement assistance and compensation for loss of non-land assets.   | Land compensation only for titled landowners or holders of customary rights.                  | Non-title holders are provided with resettlement and rehabilitation support. Provide with compensation for non-land assets. |
| 8 | Prepare a resettlement plan elaborating on displaced persons' entitlements, the income and livelihood restoration strategy, institutional arrangements, monitoring and reporting framework, budget, and time-bound implementation  | No resettlement<br>Plans prepared   | Plans prepared and disclosed  |

|    |   |   |  |
|----|---|---|--|
|    | schedule.   |   |  |
| 9  | Disclose a draft resettlement plan, including documentation of the consultation process in a timely manner, before Project appraisal, in an accessible place and a form and language (s) understandable to affected persons and other stakeholders. Disclose the final resettlement plan and its updates to affected persons and other stakeholders.            | No plans prepared.  | Plans prepared and disclosed   |
| 10 | Conceive and execute involuntary resettlement as part of a development project or program. Include the full costs of resettlement in the presentation of project's costs and benefits. For a project with significant involuntary resettlement impacts, consider implementing the involuntary resettlement component of the project as a stand-alone operation. | No equivalent requirement   | Addressed as relevant.   |
| 11 | Pay compensation and provide other resettlement entitlements before physical or economic displacement.<br><br>Implement the resettlement plan under close supervision throughout project implementation.  | No equivalent requirement<br><br>The Telegraph act (TA) provides that land for tower construction or under a transmission line is not to be acquired or compensated as long as the land's permanent productive potential is not affected. Under | Compensation payments paid before damages occur. Implementation monitored and reported.<br><br>Based on ADB policy all land impacts are to be compensated. As urban/residential-commercial land is affected either if a tower provides clearance or not, the TA provisions have been modified for this |

|    |  |   |   |
|----|--|---|---|
|    |  | the TA therefore only temporary impacts on crops are compensated. | program so as to address damages that a tower causes to plots with real estate value. For this project urban and commercial or residential plots will be fully acquired and compensated at market rates. The same will happen in the case of rural/agricultural land when the land under a tower is no longer usable or access is restricted. |
| 12 | Monitor and assess resettlement outcomes, their impacts on the standards of living of displaced persons, and<br><br>whether the objectives of the resettlement plan have been achieved by taking into account the baseline conditions and the results of resettlement monitoring. Disclose monitoring reports. | Monitoring reports not required                                   | Monitoring reports prepared and disclosed   |

**List of Participants**

| <b>S.No</b> | <b>Name of Participant</b> | <b>Name of Place</b>   | <b>Status</b>  |
|-------------|----------------------------|------------------------|----------------|
| 1           | Siraj Tharejo              | KhairpurJuso           | Labourer       |
| 2           | Noor Muhammad Soomro       | KhairpurJuso           | Farmer         |
| 3           | Faqir Hussain Brohi        | KhairpurJuso           | Farmer         |
| 4           | Rashid Nawaz               | KhairpurJuso           | Technician     |
| 5           | Lal Muhammad               | KhairpurJuso           | Farmer         |
| 6           | ImamDin Mugheri            | GariGhulam Ali Mugheri | Farmer         |
| 7           | Hussain Ali                | GariGhulam Ali Mugheri | Govt. Employee |
| 8           | Ahmed Ali                  | GariGhulam Ali Mugheri | AH             |
| 9           | Mashooque Ahmed            | Naseerabad             | Merchant       |
| 10          | Manzar Nawab               | Naseerabad             | Labourer       |
| 11          | Allah Ditto Mugheri        | Naseerabad             | Businessman    |
| 12          | Jabbar Khan                | Naseerabad             | Private        |
| 13          | Fareeda                    | Larkana                | Housewife      |
| 14          | JannatBibi                 | Larkana                | Housewife      |
| 15          | Rukhsana                   | Larkana                | Housewife      |
| 16          | Karim Hassan Umrani        | Garchi                 | Landlord       |
| 17          | Ghulam Hussain             | Garchi                 | Farmer         |
| 18          | Siraj Ahmed                | Garchi                 | Teacher        |
| 19          | Akhlaque                   | Dadu                   | Farmer         |
| 20          | Muhammad Azeem             | Dadu                   | Farmer         |
| 21          | Abdul Majid                | Dadu                   | Business       |
| 22          | Hyder Bux Jatoi            | Dadu                   | AH             |
| 23          | Nadeem Sarwer              | Dadu                   | Farmer         |
| 24          | Ghulam Nabi Goraro         | Dadu                   | AH             |



**Community along the proposed Sub Project Route**



**Public consultation along the proposed sub-project route**





### Community along the proposed Transmission Line Route



### Crops along the proposed Transmission Line Route



### **Appendix 3: Draft Public Information Brochure**

**Power Distribution Enhancement Investment Program (Tranche 2)**  
**Construction of 132kV Larkana-Meher-Dadu Double circuit Transmission Line**  
**Subproject**  
**Hyderabad Electric Supply Company (HESCO)**  
**Government of Pakistan**  
**October, 2014**

#### **A. GENERAL**

1. Hyderabad Electric Supply Company (HESCO) has taken loan from the Asian Development Bank (ADB) to implement the Power Distribution Enhancement Investment Program, aiming at upgrading and extending the transmission network to expanding the capacity and coverage of the network. The project will be implemented over five to six years, and will include a number of tranches or groups of subprojects.

2. The second tranche includes more than hundred subprojects in Pakistan including some new Sub-Stations, expansion of existing Sub-Stations, and installation of associated transmission lines; most of the subprojects will not cause any resettlement impacts as they entail transformers being installed within an existing Sub-Station site and no works beyond the existing Sub-Station site boundaries. There are few subprojects (including this Construction of 132 kV Larkana-Meher-Dadu Double Circuit T/Line Subproject) that required transmission line and the installation of the towers for these will require temporary land acquisition, and the stringing of their lines will mean that crops and trees will be damaged.

3. The Construction of 132 kV Larkana-Meher-Dadu Double Circuit T/Line is in two districts of Sindh ie- Dadu and Larkana. The transmission line comprises two sections, the first section is Larkana\_Meher which is in Dadu and Larkana districts and the other section is Meher\_Dadu which is in Dadu district. Length of the first section of the TL is 64.96 km which will require installation of 247 towers (238 towers in farmlands and 9 towers in unproductive lands), and length of the second section of the TL is 62.76 km which will require 224 towers (205 towers in farmlands and 19 towers in unproductive lands). The transmission line will traverse private farmland for most of its length 118,726 meter (93%) and 8,994 meter (7%) uncultivated private and government lands (Canal, Road, Paths and watercourses). As a result, some 363 AHs, with a total population of 2032 persons (APs), will be affected by temporary disruption to lands, and loss of 880 Acre of crops and 234 wood trees.

4. The implementation of this subproject will affect crops in your communities. To compensate and/or rehabilitate these losses the provisions of relevant Pakistan laws and of the ADB Policy on Involuntary Resettlement will be adopted. This has included the preparation of a Land Acquisition and Resettlement Framework (LARF) setting out the basic compensation/rehabilitation provisions for the PDEIP and a Land Acquisition and Resettlement Plan (LARP) providing data on impacts and affected households and indicating in detail how the impacts will be compensated or rehabilitated has been prepared for each subproject that requires temporary disturbance to land and subsequent compensation for crops and trees.

5. Both the LARF and the LARP in Urdu language will be available for perusal to anyone interested at the Project Site. This booklet summarizing the provisions of the LARF and the LARP for the 132 kV Larkana-Meher-Dadu T/Line Subproject is given to all the families whose land structures, trees and crops and incomes are affected by this subproject. The objective of this booklet is to inform them of the essential compensation

and rehabilitation policy for this Subproject and of a number of basic issues relative to the implementation of the compensation and rehabilitation program.

## **B. PRINCIPLES FOR COMPENSATION AND/OR REHABILITATION OF AFFECTED FAMILIES**

6. Principles for the compensation/rehabilitation of affected households (AHs) by the construction of 132 kV Larkana-Meher-Dadu Double Circuit T/Line are:

- (1) Land acquisition for transmission line will be avoided and acquisition will only occur where access to, or use of, an AH's land is affected;
- (2) Compensation will guarantee the maintenance of the AHs pre-project living standards;
- (3) AHs will be fully informed/consulted on compensation options;
- (4) AHs' socio-cultural institutions will be supported and used;
- (5) Land acquisition provisions will equally apply to women and men;
- (6) Lack of formal title will not impede rehabilitation of families losing land;
- (7) Particular attention will be paid to women-headed households and vulnerable groups;
- (8) Land acquisition budgets will be included in project costs; and
- (9) Compensation will be fully provided prior to ground leveling and demolition.

## **C. COMPENSATION AND REHABILITATION ELIGIBILITY AND ENTITLEMENTS**

7. All the households affected by subproject implementation areas holding affected assets or incomes before the eligibility cut-off date for the project **September 18, 2014** (the date of the start of Resettlement Field Surveys) will be entitled to compensation and rehabilitation for their losses as detailed in Table 1 below.

8. Compensation and rehabilitation for losses and impacts will be provided in accordance to the following matrix (see Table 1 below). This entitlements matrix contains provisions for the actual impacts of this Subproject, while an umbrella (LARF) entitlements matrix containing provisions for all potential impacts has been provided in Chapter 2 (see Table 2.2) of this short LARP.

**Table 1: Compensation Eligibility and Entitlements Matrix for This Subproject**

| Asset   | Specification   | Affected People               | Compensation Entitlements   |
|---|---|-------------------------------|---|
| Arable Land temporarily affected by construction of towers or TL. | Access is not restricted and existing or current land use will remain unchanged by the construction of towers and transmission line | Farmer, Titleholder (363 AHs) | No land compensation provided that land is rehabilitated/restored to former quality following completion of works. Compensation, in cash, for all damaged crops and trees as per item below   |
| Crops   | Crops affected (damaged/lost)   | All AHs (363 AHs)             | <u>Tower impacts</u> : Cash compensation at market rate based on actual impact for a maximum of 3 harvests<br><u>Line corridor stringing</u> : cash compensation at market rate of 1 harvest. |
| Trees   | All trees removed   | (170 AHs)                     | Cash compensation shall reflect income replacement  |

**D. Subproject Impacts**

9. Overall, a total of five farming households (363 AHs, 2032 APs) will be affected by the construction of the new Jacobabad II 132 kV grid station and transmission line. 290 AHs will be affected by both towers and the transmission line, while the other 73 AHs will be affected only by the transmission line during the stringing activity. Accordingly, 363 AHs will be compensated for three crops (2 crops affected by towers and an additional 1 crop affected by the stringing activity). The affected household, who will experience crop loss because of stringing activity only, will receive compensation for one crop (see Table 2 below for area of affected crops).

**Table 2 – Total Area of Affected Crops by Type of Land**

| Transmission Line Section | Affected Crops (Acre) |       |          |                 |       |          |
|---------------------------|-----------------------|-------|----------|-----------------|-------|----------|
|                           | Private Land          |       |          | Government Land |       |          |
|                           | Total                 | Tower | Corridor | Total           | Tower | Corridor |
| A: Larkana - Mehar        | 459                   | 53    | 406      | 0.00            | 0.00  | 0.00     |
| B: Mehar - Dadu           | 421                   | 46    | 375      | 0.00            | 0.00  | 0.00     |
| Total                     | 880                   | 99    | 781      | 0.00            | 0.00  | 0.00     |

10. Besides loss of crops and there will be no any likely damage to structures, shops and trees. Similarly, there are no community property resources, nor any business activities affected by the construction of the towers and/or stringing of transmission line.

**E. Unit Rates and Compensation**

11. The subproject area is not a fairly fertile agricultural area, and there are some areas of barren lands, too. But in most of the area Wheat and Rice crops are grown. All the affected farmers grow Wheat in the *Rabi*/winter season and Rice in *Kharif*/ summer season. For the purpose of compensation average of the price of wheat and Rice are used (see table 3 to 7).

**Table 3: Rate/Price for Crops in Subproject Area**

| Cropping Season        | Affected Crop |       | Average Crop Income per Unit Area (Rs.) |              |
|------------------------|---------------|-------|---|--------------|
|                        | No.           | Name  | Acre (basis)                            | Square Meter |
| Rabi (Autumn-Winter)   | 1             | Wheat | 54,296                                  | 13.41        |
| Kharif (Spring-Summer) | 2             | Rice  | 71,489                                  | 17.66        |
| <b>Sum Total:</b>      |               |       | 125,785                                 | 31.07        |
| <b>Average :</b>       |               |       | 62,893                                  | 15.53        |

**Table 4: Assessment of Crop Compensation for Towers**

| Season        | Affected Crops | No. of Towers | Cropped Area Affected (Acre) | Compensation Assessed |                   |
|---------------|----------------|---------------|------------------------------|-----------------------|-------------------|
|               |                |               |                              | Rate (Rs./Acre)       | Amount (Rs.)      |
| Rabi 2014-15  | Wheat          | 443           | 98.6                         | 54,296                | 5,353,586         |
| Kharif 2015   | Rice           | 443           | 98.6                         | 71,489                | 7,048,815         |
| Rabi 2015-16  | Wheat          | 443           | 98.6                         | 54,296                | 5,353,586         |
| <b>Total:</b> |                |               |                              |                       | <b>17,755,987</b> |

**Table 5: Assessment of Crop Compensation for Transmission Line**

| Cropping Season | Affected Crops | TL Corridor Length (m) | Cropped Area (Acre) | Compensation Assessed |                   |
|-----------------|----------------|------------------------|---------------------|-----------------------|-------------------|
|                 |                |                        |                     | Rate (Rs./Acre)       | Amount (Rs.)      |
| Rabi/Kharif     | Rice / Wheat   | 50,653.50              | 375.5               | 62,893                | 23,616,321        |
| <b>Total:</b>   |                |                        |                     |                       | <b>23,616,321</b> |

**Table 6: Assessment of Compensation for Affected Wood Trees**

| No.          | Name of Affected Wood Tree | Affected Wood Trees (No.) | Market Rate (Rs.) | Compensation Amount (Rs.) |
|--------------|----------------------------|---------------------------|-------------------|---------------------------|
| 1            | Babar/Anacianilotica       | 135                       | 2,200             | 297,000                   |
| 2            | Taali                      | 62                        | 12,000            | 744,000                   |
| 3            | Bed Mushq                  | 15                        | 7,000             | 105,000                   |
| <b>TOTAL</b> |                            |                           |                   | <b>1,146,000</b>          |

**Table 7: Assessment of Compensation for Affected Fruit Trees**

| No. | Name of Affected Wood Tree | Affected Fruit Trees (No.) | Market Rate (Rs.) | Compensation Amount (Rs.) |
|-----|----------------------------|----------------------------|-------------------|---------------------------|
| 1   | Bair                       | 22                         | 6,000             | 132,000                   |

**TOTAL 132,000****F. Grievance Mechanism**

12. HESCO normally takes care to prevent grievances rather than going through a redress process. This can be obtained through careful LAR design and implementation, by ensuring full participation and consultation with AHs, and by establishing extensive communication and coordination between the community and HESCO. Nevertheless, a grievance mechanism will be made available to allow an AH appealing against any disagreeable decision, practice or activity arising from compensation for the affected land or other assets. AHs will be fully informed of their rights and of the procedures for addressing complaints verbally during consultation meetings and through PIB in Urdu.

13. A complaints register is kept at the site of Larkana, Maher and Dadu grid stations to be maintained by the respective grid station in-charges. HESCO will inform the AHs of the availability of this arrangement through PIB in Urdu. The complaints received will be processed and resolved by the HESCO's Social Development Officer and LAC by involving the local leadership and Union Councils, and/or the respective District LAC.

14. Firstly, attempts will be made to redress the grievances through a village level grievance redress committee (GRC) comprised of HESCO's E&SS and LAC or *Parwari*, and the village notable elders, like *Wadera*, *Numbardar* and the concerned Councilor of the Union Council. But if the grievances cannot be redressed satisfactorily at the village level, a grievance redressal mechanism will be established at the District level, comprising of District Coordination Officer (Chairman), District LAC and HESCO's E&SS and LAC. As a last resort, the aggrieved AH may seek justice through the Court.

15. All the finances will move directly from HESCO to AHs, as compensation for the loss of crops and trees. The complaint and grievances will be normally addressed by HESCO locally by involving local leadership and Union Councils, and only for unresolved grievances the District Government may be need to be involved, as described in Table 6 overleaf.

**Table 6 – Grievance Resolution Process**

| <b>Land &amp; Crop Compensation Issues</b>   | <b>Other Compensation or Project Issues</b>  |
|--|--|
| 1. First, complaints resolution will be attempted at village level through the involvement of the E&SS, district government, and/or informal mediators.  | 1. First, complaints resolution will be attempted at village level through the involvement of the E&SS, district government, and/or informal mediators.  |
| 2. If still unsettled, a grievance can then be lodged to the LAC who has 30 days to decide on the case.  | 2. If still unsettled, a grievance can be lodged to the PMU/E&SS, which will have 30 days to respond.  |
| 3. If no solution was reached a grievance can be lodged with support of the E&SS to the HESCO. The AH must lodge the complaint within 1 month of lodging the original complaint with the LAC and must produce documents supporting his/her claim. The HESCO will provide the decision within 21 days of registering the complaint. The HESCO decision must be in compliance with this LARF provisions. | 3. If no solution was reached a grievance can be lodged with support of the E&SS to the HESCO. The AH must lodge the complaint within 1 month of lodging the original complaint with the LAC and must produce documents supporting his/her claim. The HESCO will provide the decision within 21 days of registering the complaint. The HESCO decision must be in compliance with this LARF provisions. |
| 4. Should the grievance redress system fail to satisfy the AH, they can further submit their case to the appropriate court of law as per the process set out in Sections 18 to 22 of the LAA (1894).   | 4. Should the grievance redress system fail to satisfy the AH, they can further submit their case to the appropriate court of law as per the process set out in Sections 18 to 22 of the LAA (1894).   |

**G. SOME BASIC QUESTIONS RELATED TO THE IMPACTS COMPENSATION AND REHABILITATION PROGRAM FOR THE PROJECT**

**Question 1 – Do we need to have a land title in order to be compensated or rehabilitated?**

**Answer:** No. Lack of formal legal rights (title) to land does not prevent AHs from receiving at least rehabilitation assistance. All AHs who were occupying or using the affected land at the time of the cut-off date (see above) will be entitled to compensation or at least rehabilitation under the project. Users of land with title or traditional rights (or who can prove they are legally using the land) who are Affected by restricted access to, or use of, the land will be entitled to compensation for land and any assets on the land affected. Users of land who do not have title or traditional rights to land will be provided full compensation for any structures, crops or trees on land affected by the project and if their access to, or use of, the land is Affected, will receive rehabilitation for land losses either in form of replacement land (if available) or in form of a cash allowance for land-use loss.

**Question 2 – Does compensation apply to my house or structures?**

**Answer:** Yes. Houses and any other structures (small shops, animal sheds, etc) that will be affected by the project shall be compensated at replacement cost so that owners can build another structure of the same size and standard.

**Question 3 – What about my crops and trees?**

**Answer:** Your affected crops and trees (if any) will also be compensated at current market value. Compensation for crops will be based on the anticipated harvest at market value, while compensation for trees will be based on the type, age and productivity of each tree Affected.

**Question 4 – Does the above mean that anybody in your community can claim compensation or rehabilitation?**

**Answer:** No. The entitled affected families are only those who were residing in project affected areas and had affected assets at the time the impacts assessment and the Affected people census was carried out. The cut-off-date for eligibility for this subproject is 18 September 2014 when the impact survey and the affected people census were completed. Anybody who encroaches into the area after the cut-off-date will not be entitled to compensation or any other form of resettlement assistance.

**Question 5 – Do we need to vacate and clear the Affected properties immediately after they have been identified as needed by the project?**

**Answer:** No. Clearing the affected areas will only take place after the compensation or rehabilitation for affected land or other lost assets and the appropriate subsidies have been provided to you. After the day in which compensation and rehabilitation was delivered to you, you will then have 1 month to clear the land. If you have not done so after a month the project will be allowed to enter your ex-property and clear land for you.

**Question 6 – If there is any disagreement regarding the way the compensation policy set up in the LARP has been implemented or any other issue relative to the compensation and rehabilitation program for the project do we have the right to complain, and if so how and where?**

**Answer:** Yes. Any AH may file a complaint or grievance. AHs will first lodge a complaint with the land acquisition collector or the project management unit in Hyderabad. If unanswered within 15 days, the complaint can then be lodged to PEPCO's project management unit in Lahore. Finally if the grievance is still not settled within 1 month, the AH can seek redress at the appropriate court. The village administrations and the Land Acquisition Coordination Committee (LACC) composed by senior members of the AH communities and by their elected representatives will assist the AH in these cases. The concerned land acquisition coordination committees will properly document all complaints and resolutions.

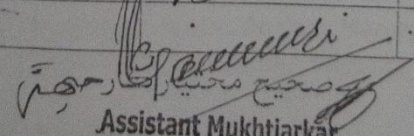
**Question 7 – Who can we contact for more information about the project?**

**Answer:** For further information about the project as a whole, and/or the LARP for the 132 kV Larkana-Meher-Dadu Double Circuit T/Line Subproject, or if you would like to receive a full copy of the Land Acquisition and Resettlement Framework (LARF: 2008) for the project, please contact as the follows:

- **Hyderabad Electric Supply Company (HESCO)**
- **Address: House No. A-1 HESCO Colony, Hussainabad, Hyderabad.**
- **Phone Number: +92-22-9260070**
- **Contact Person: Mr. Muhammad Saleem Jat, Chief Engineer(Development), PMU HESCO, Hyderabad.**



| گھر بل اگہر بابت سال 2014 کان 2015 تعلقو ضلعو دادو |                |                       |            |        |
|--|----------------|-----------------------|------------|--------|
| نمبر شمار  | جنس            | في ايڪڙ پيداوار مٿن ۾ | في مٿ اگهه | ريمارڪ |
| 1  | ڪمند           |                       |            |        |
| 2  | ڪاٺن           |                       |            |        |
| 3  | لوسڻ           | 10                    | 20000 -    |        |
| 4  | برسيو          | 9                     | 5800 -     |        |
| 5  | گندم، ڪڻڪ      | 60                    | 1250 -     |        |
| 6  | بصر            | 120                   | 1200 -     |        |
| 7  | مٽر            | 15                    | 1500 -     |        |
| 8  | چڙا            | 30                    | 2200 -     |        |
| 9  | سيزيون         | 30                    | 2500 -     |        |
| 10   | سورج مڪي       | 40                    | 10000 -    |        |
| 11   | توريو          | -                     | -          |        |
| 12   | جوار           | 160                   | 2000 -     |        |
| 13   | مرچ            | 25                    | 6000 -     |        |
| 14   | ساريون         | 80                    | 1100 -     |        |
| 15   | تماتا          | 80                    | 2000 -     |        |
| 16   | ڌاڻا           | 40                    | 8000 -     |        |
| 17   | وڻ             | وڻ جو قسم             | في وڻ قيمت |        |
| 18   | تالهي ۽ ٻيا وڻ |                       | 15000 -    |        |
| 19   | ببر            |                       | 4000 -     |        |
| 20   | پيرا ڪڪر       |                       | 3000 -     |        |
| 21   | ليمان          |                       | 4000 -     |        |
| 22   | نر             |                       | 20000 -    |        |
| 23   | زيتون          |                       | 5000 -     |        |
| 24   | چمنون          |                       | 4000 -     |        |
| 25   | بيد مشڪ        |                       | 13000 -    |        |
| 26   | ڪيلا           |                       |            |        |

  
 Assistant Mukhtiar  
 Mehar

دادو ضلعو تعلقو

20/04/2014

گھر ہل انڈسٹریل ایریا 20 کان 20 تعلقو لارکانہ ضلعو لاہور

| نمبر | جنس          | فی ایکڑ پیداوار<br>مٹن | فی مٹ اکبر | ریمارک |
|------|--------------|------------------------|------------|--------|
| 1    | کھجور        |                        |            |        |
| 2    | کھجور        |                        |            |        |
| 3    | لوہا         | 10                     | 8000       |        |
| 4    | پھوس         | 9                      | 5600       |        |
| 5    | کھجور، کھجور | 40                     | 1250       |        |
| 6    | پھوس         | 130                    | 1200       |        |
| 7    | کھجور        | 12                     | 1500       |        |
| 8    | پھوس         | 30                     | 2200       |        |
| 9    | سبز پھوس     | 30                     | 2500       |        |
| 10   | سورج مکئی    |                        |            |        |
| 11   | تورن         |                        |            |        |
| 12   | سورج         |                        |            |        |
| 13   | سورج         | 20                     | 1100       |        |
| 14   | سورج         | 70                     | 1000       |        |
| 15   | کھجور        | 20                     | 1500       |        |
| 16   | کھجور        | 8                      | 6000       |        |
| 17   | وٹ           | وٹ جو قسم              | فی وٹ قیمت |        |
| 18   | کھجور، کھجور |                        | 10000      |        |
| 19   | پھوس         |                        | 11000      |        |
| 20   | پھوس         |                        | 1000       |        |
| 21   | لیمان        |                        | 5000       |        |
| 22   | نر           |                        |            |        |
| 23   | زیتون        |                        | 5000       |        |
| 24   | چھون         |                        |            |        |
| 25   | پھوس         |                        | 6000       |        |
| 26   | کیلا         |                        |            |        |

صحیح مختیار کار

تعلقو لارکانہ ضلعو لاہور

تاریخ

C.S. 26-11-2014  
Mukhtiar Revende  
Tehsil Larkana



| نمبر بل اگھر بابت سال 2013 کان 2014 تعلقو |              |                 |            |
|---|--------------|-----------------|------------|
| نمبر شمار                                 | جنس          | في ايڪڙ پيداوار | في مڻ اگھ  |
| 1   | ڪمند         | مڻ 600          | Rs-140     |
| 2   | ڪاڻن         | مڻ 120          | Rs. 2500   |
| 3   | لوسڻ         |                 |            |
| 4   | برسيم ڪاڻ    | مڻ 40           | Rs 260     |
| 5   | گندم ڪڻڪ     | 30 = 16 مڻ      | Rs 1200    |
| 6   | بصر          | 100 مڻ          | Rs 1400    |
| 7   | مٺر          |                 |            |
| 8   | چڻا          |                 |            |
| 9   | سبزيون       | 30 مڻ           | Rs 12000   |
| 10  | سورج مڪي     |                 |            |
| 11  | توريو        |                 |            |
| 12  | جوار ڪاڻ     | 50 مڻ           | Rs 260     |
| 13  | مرچ مالا     | 20 مڻ           | Rs 11000   |
| 14  | ساريون       | 30 مڻ           | Rs 11000   |
| 15  | تمانا        | 30 مڻ           | Rs 2500    |
| 16  | ڌاڻا         |                 |            |
| 17  | وڻ           | وڻ جو قسم       | في وڻ قيمت |
| 18  | ٽالهي 27 انچ |                 |            |
| 19  | پير          |                 |            |
| 20  | پيراڪر       |                 |            |
| 21  | ليمان        |                 |            |
| 22  | نم           |                 |            |
| 23  | ٽريٽون       |                 |            |
| 24  | ڄمون         |                 |            |
| 25  | بيد مشڪ      |                 |            |
| 26  | ڪيلا         |                 |            |

لنڊ پيلڊاءِ آيل رڪارڊ ڪان پيڪيٽ آهي  
 ڀرپور ڏانهن مارڻ جي ڪري ڪان پيڪيٽ آهي  
 ڀرپور ڏانهن مارڻ جي ڪري ڪان پيڪيٽ آهي

مختيارڪار رڪارڊ  
 MUKHTIARKAR REVENUE  
 DADU

تعلقو دارو ضلعو دارو