E1503
VOL. 9
HESCO 6th STG Project
Environmental and Social Assessment
Volume 2 of 2 – Appendices

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VOLUME 2: APPENDICES

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Appendix A: Terms of Reference

This appendix provides the terms of reference for this ESA\(^1\).

Citation in the Main Report: Section 1.4.3.

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\(^1\) The ToR includes Energy Loss Reduction (ELR) project, in addition to the 6\(^{th}\) STG. However, the present ESA covers only the 6\(^{th}\) STG project (2006-07) (see Section 1.4.3 of the main report for the contractual scope of the ESA study).
Terms of Reference for Environmental and Social Assessment (ESA) for proposed Secondary Transmission and Grid (STG) and Distribution Rehabilitation/Energy Loss Reduction (ELR) Project Components.

September-2005

A Background

Pakistan’s eight electricity distribution companies (Discos) have requested and obtained approvals of their respective Board of Directors to pursue World Bank financing of their investment programs. The DISCOs have prepared a number of investment projects and the respective PC-I’s have been approved by CDWP and ECNEC. The components to be considered for Word Bank Financing will be selected from the STG and ELR projects of the Discos. For the Bank to consider their request, some additional preparatory work will be needed to strengthen environmental and social analysis, economic analysis and risk assessment, procurement plans and financial management.

The proposed project consists of the following components:
  a) Strengthening electricity distribution networks to reduce losses and improve supply;
  b) Strengthening electricity transmission network to reduce bottlenecks and improve system’s reliability and quality; and
  c) Technical assistance (TA) for project implementation, capacity building, investment planning and sector reform.

The objective of the project is to help increase the efficiency, reliability and quality of electricity supply in terms of the overall technical and commercial losses, the availability and the voltage profile of electricity. The project also aims to support electricity sector reform and investment planning and financing through technical assistance.

B Project Description

HESCO wants to increase its transformation capacity by constructing new grid stations, conversion of existing 66 KV to 132 KV, Extension/Augmentation of existing grid stations to meet with load demand and for reliable/un-interrupted electric supply to its consumers. For this purpose 6th STG programme for the period 2005-06 to 2009-10 is going to be commenced. Scope of work for the Ist year i.e.2005-06 is being financed by local commercial banks while Word Bank will provide finances w.e.f.July-2006 onward. Scope of work for the period 2006-07 will be 05 No new grid stations, 02 No conversion and 14 No Extension/Augmentation alongwith 08 No 132 KV transmission lines.

2 The scope of the present ESA has been revised, and included in Section 1.4.3, as mentioned earlier.
The environmental/social consultants will conduct Environmental & Social Assessment (ESA) studies as per Bank requirements (the Bank’s Safeguard policies are listed in Annexure-1) to review and analyze whether the identified project components would trigger any of these Safeguard policies and address and respond to national regulatory requirements.

C Scope of ESA studies

The ESA studies will have three major parts, each to be dealt with separately: (i) an ESA for the project interventions to be taken up during the first year of investment (ii) Environmental and Social Assessment Guidelines (ESG) for addressing environmental and social impacts for project activities which are not known exactly now and are to be taken up in subsequent years and (iii) if any social impacts safeguards are identified through the ESA, a Resettlement Policy Framework (RPF) will be developed for project activities which are not known exactly now and are to be taken up in subsequent years.

The specific objective of ESA is to:

a) Identify adverse environmental and social impacts associated with STG and ELR activities;
b) Develop and Environmental Management & Monitoring Plan (EMMP) for the adverse environmental impacts; and
c) Identify the need for a Resettlement Policy Framework based on the Social Assessment, which would be carried out in accordance with the Social Screening checklist (Annexure 2). Based on the results of the screening process, undertake Social Assessment (SA) and recommend mitigation measures (as required).

Major Components of ESA

Baseline Conditions: The consultants will review the available literature, visit the project area and consult the respective DISCO and other line departments, to establish the baseline conditions in terms of physical and biological environment and socio-economic conditions in the project area. The consultants will prepare maps of suitable scale to highlight the socio-environment resources of the project area. The baseline will also identify Project Affected Persons (PAPs) with anticipated impacts on them and include an income/asset survey; and identify the application of social safeguards particularly OP 4.12; OP 4.10 and OPN 11.03.

Analysis of Alternatives: The consultants will analyze alternative siting of STG components in terms of their environmental and social impacts and benefits. The analyses should include the siting process, based on the description of the selected route; the alternative routes and the justification for the choice. Based on the selected route, the consultants will identify and prepare maps showing the corridor of impact (Col). The analysis of alternatives will also avoid/minimize involuntary resettlement (including involuntary acquisition of land and impact on livelihood of PAPs). Furthermore, affectees will be compensated/income restored

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3 The ELR components are not included in the present ESA, as mentioned earlier.
irrespective of their legal status. The consultants will also rationalize proposed ELR activities in terms of improvement in energy supplies, ensuring human safety; removal of system bottlenecks etc. in comparison with ‘without project’ conditions.

Public/stakeholders’ Consultations: The consultants will identify project stakeholders and hold consultations with them, to delineate the appropriate boundaries of the environmental/social assessments and to screen potential adverse environmental and social issues. The consultants will also receive feedback on the expected social issues related to the project impact and suggested mitigation measures. The stakeholders will include the primary stakeholder (those directly affected by the intervention) and secondary stakeholders (those indirectly affected and those who have an interest in the project). The consultants will document the proceedings of the consultations along with the list of participants and photographs.

Identification of Environmental/Social Impacts of STG & ELR components: The consultants will evaluate which of the Bank’s Safeguard policies are triggered due to the STG and ELR components, separately and collectively and what mitigation measures could be proposed to minimize and manage those impacts. They will also identify potential environmental and social issues of STG and ELR components in terms of their nature, magnitude, extent, location and timing and duration. These impacts may relate to the project design stage, construction stage and/or the project operation and decommissioning stage. It is expected that major environmental and social issues with regard to ELR activities will occur during the construction stage. Based on impact prediction methods and as the result of public consultations, the consultants will screen adverse environmental impacts for inclusion in mitigation measures and environmental management plan. The same process will be followed for identification of social impacts and public consultations will provide feedback of impacts from stakeholders’ viewpoint. Identification of social impacts (with intensity of impact) by the ESA/SA will provide input into the RP/RFP (which ever is applicable).

Mitigation measures: The consultants will propose appropriate mitigation measures for the adverse environmental impacts. These measures could be based on exploring the ways to achieve the project objectives by alternative ways, proposing changes in the project design (size of the right of way/way leave size including height of the power line towers, siting of facilities including grid stations), through improved monitoring and management practices (storage of equipment & construction materials, labor camps, waste disposal, disposal of construction debris etc.) and/or through monetary compensation (resettlement, income/livelihood restoration. Social mitigation measures will follow from the alternative design implication (i.e. size, RoW, siting of grid stations and towers, location of high voltage transmission lines particularly through crowded urban areas, need for land, project’s impact on land prices, if any etc.) and stakeholders consultation. Social screening will provide the input for the Social Assessment that may include an Entitlement Framework and the justification for a RP/RFP.
Environmental Management & Monitoring Plan (EMMP): The consultants will describe comprehensive environmental management and monitoring plan to ensure the adequacy and effectiveness of the proposed management by clearly identifying the roles and responsibilities of the contractor, supervisory consultant and the client. The consultants will also elaborate on the monitoring mechanism and the reporting frequency. The consultants will prepare the cost for the proposed EMMP for its inclusion in the project cost. The consultant will also develop environment performance indicators to monitor, audit, evaluate and supervise negative and positive project environmental impacts. The consultant will also suggest monitoring, auditing and evaluation tools and formats of a monitoring plan including frequency and methodology of monitoring as well as allocate institutional responsibility and costs.

Resettlement Plan/Resettlement Policy Framework (ESG and RP/RPF) The social screening and Social Assessment will identify the need for a Resettlement Plan/Resettlement Policy Framework (if social safeguards, particularly OP 4.12 on Involuntary Resettlement, are triggered, through involuntary land acquisition and impact on livelihood of affectees). For details on Social Screening please refer to Annexure 2. Mitigation measures may include an entitlement framework, (as a part of the Social Assessment) or a Resettlement Plan/Resettlement Policy Framework. The requirements for any particular mitigation measure will be informed by the Social Assessment. Social costs/benefits of the project will be reflected in the project budget as project costs/benefits. The Consultant will also prepare monitoring indicators/a M&E system; and an institutional mechanism for implementing the social component of the program/project.

Environment & Social Assessment Guidelines: Scope of work for each DISCO essentially remains the same in the subsequent years as is for the first year except that it may vary in magnitude, geographical coverage and extent. Geographical extent of some of the DISCOs may include sensitive ecological systems like National Parks, wildlife sanctuaries, heavily populated areas, expensive land, large number of affectees, etc., where sensitivity of such system is to be addressed according to the Bank’s safeguards policies and applicable national laws. Based on their ESA experience the consultants will therefore develop ESG and RP/RPF for the future projects by considering environmentally/socially sensitive areas/system. These guidelines will serve as the operational manual for the client, supervision consultants and the contractor to take care of the socio-environmental aspects of the project while implementing the project. Since most of the baseline environmental conditions will remain the same within the geographical boundaries of the respective DISCO, variation in adverse environmental impacts will depend on the type, magnitude and extent of the project interventions as well as the duration and timing of interventions. For this purpose, the consultants will develop checklists to record the adverse environmental and social impacts and on ground variations with those noted under the ESA. Where these changes are substantial/significant, a separate EMMP will be developed and will constitute ESA for the project. Else ESG will become an ESA as it will encompass impact identification to impact management with appropriate documentation. ESG will therefore comprise of baseline conditions, stakeholders’ consultations, and
analysis of alternatives, impact identification and an EMMP. For substantial social impacts such as impact on people in densely populated/urban areas, loss of short term loss of livelihood, involuntary land acquisition, disturbance in areas due to passage of powerful overhead electric lines etc., the SA/ESA would provide information for the development of a RPF/RP (Where required). The RPF will contain information on baseline conditions, social impacts, information on stakeholders’ consultation and mitigation measures including an entitlement framework. Besides, the RPF will also be a part of the EMMP. The general principles of the RPF will be applicable to similar programs implemented over time. Furthermore, the RPF should allow for changes that can be incorporated with a change in local conditions and social impacts.

D Skills required

The consultants team should preferably consists of an Environmental Expert with 8-10 years experience in ESAs particularly in the power sector, an expert on Social Issues with 8-10 years experience in social development particularly in the power sector and one Environmentalist with 3-5 years experience in the analysis of field data. The expert on social issues will need to have experience in conducting participatory consultations and in the use of consultation instruments. He/she will also need to have the capacity to undertake analysis using qualitative and quantities data/information.

E Time Schedule

The consultants will carry out the ESA studies in 12 weeks.

F Deliverables

ESA Report

1. Inception Report (2 weeks after the commencement of work)
2. Draft ESA Report with identification of social issues and mitigation measures (7 weeks after the commencement of work)
3. Final ESA Report after incorporating the comments by the Client and Bank (at the completion of ESA studies, 8 weeks)
4. Executive Summary both in English and Urdu languages (8 weeks)

ESG Report

1. Draft ESG Report with RPF (3 weeks after the commencement of work)
2. Final ESG Report after incorporating the comments by the Client and Bank (at the completion of ESA studies, 4 weeks)
3. Executive Summary both in English and Urdu languages (4 weeks)

Note: It is understood that the environment consultants will take up ESG studies after the completion of ESA studies – though both the studies could be started concurrently, in which case there should be close coordination between the two teams and total study time will reduce to 8 weeks. The social consultant will address the social concerns, determine the need for a RPF/RP (mitigation measures) and address these in the ESG report.
G Suggested Structure of the ESA Report.

(a) Executive summary. Concisely discusses significant findings and recommended actions both for environmental and social aspects of the program.

(b) Policy, legal, and administrative framework. Discuss the policy, legal and administrative framework within which the EA is carried out. Explains the environmental requirements of any co-financiers. Identifies relevant international environmental agreements to which the country is a party. Discuss the social framework as practiced by WAPDA, the Land Acquisition Act (1894) and Bank policies along with identification of gaps and recommended remedial measures.

(c) Project description. Concisely describes the proposed project and its geographic, ecological, social and temporal context, including any offsite investment that may be required (e.g., dedicated pipelines, access roads, power plants, water supply, housing and raw material and product storage facilities). Indicates the need for any resettlement plan/RPF or Indigenous Peoples Development Plan (see also subparas. (i) to (iv) below). Normally the report includes a map showing the project site and the project’s area of influence.

(d) Baseline data. Assesses the dimensions of the study area and describes relevant physical, biological and socioeconomic conditions, including any changes anticipated before the project commences. Also takes into account current and proposed development activities within the project area but not directly connected to the project. Data should be relevant to decisions about project location, design, operation or mitigatory measures. The section indicates the accuracy, reliability and sources of the data. Baseline information will also include socio-economic and demographic characteristics of affected area and affected people including an income/asset survey of affected people. Baseline data will be needed on all aspects of the program intervention and will allow for assessment of post-intervention impact after project completion.

(e) Environmental/Social impacts. Predicts and assesses the project’s likely positive and negative impacts, in quantitative terms to the extent possible. Identifies mitigation measures and any residual negative impacts that cannot be mitigated. Explores opportunities for environmental/social enhancement. Identifies and estimates the extent and quality of available data, key data gaps and uncertainties associated with predictions and specifies topics that do not require further attention.

(f) Analysis of alternatives. Systematically compares feasible alternatives to the proposed project site, technology, design and operation – including the “without project” situation – in terms of their potential environmental and social impacts; the feasibility of mitigating these impacts; their capital and recurrent costs; their suitability under local conditions; and their institutional, training and monitoring requirements. For each of the alternatives, quantifies the environmental impacts to the extent possible and attaches economic values where feasible. States the basis for selecting the particular project design proposed and justifies recommended emission levels and approaches to pollution prevention and abatement. It should also justify the reason for selection of this design from social viewpoint.
(e.g., number of affectees and interests affected, any loss of livelihood and any other social parameter considered in selection of the particular design).

(g) Environmental management and monitoring plan (EMMP). Includes the RPF/RP and covers mitigation measures, monitoring and institutional strengthening;

(h) Besides the broad areas identified above in the ESA or SA, the following areas also need to be undertaken for these reports:

i). Identify stakeholders with stakes and impact of the project on them in terms of intensity of impact; Identify Project affected Persons and affected structures (if any); and also inventory and nature of adverse impacts; identify impact on women and vulnerable groups;

ii) Identify villages/urban areas to be impacted by land acquisition; for land acquisition process, lay out the method to be followed for voluntary/involuntary land acquisition. Please note that for involuntary land acquisition section-17 (h) will not be used (in the absence of an emergency or urgency); Identify social safeguards that may be triggered. And prepare an entitlement framework as a mitigation measure; determine whether a Resettlement plan or Resettlement Policy Framework is required.

iii) Lay out the participatory framework to be used by the project over its life; and

iv) Develop a conflict resolution mechanism.

The SA may be a stand alone document or a part of the ESA report. Activities for data information gathering may be undertaken concomitantly with the environmental component of the Report.

(i) Appendixes

(1) List of EA/SA report preparers-individuals and organizations.
(2) References-written materials both published and unpublished, used in study preparation.
(3) Record of interagency and consultation meetings, including consultations for obtaining the informed views of the affected people and local non-governmental organizations (NGOs). The record specifies any means other than consultations (e.g., surveys that were used to obtain the views of affected groups and local NGOs.
(4) Tables presenting the relevant data referred to or summarized in the main text along with socio economic data, (primary and secondary) referred to in the report.
(5) List of associated reports (e.g., Resettlement Plan or Indigenous People Development Plan).
Annexure 1 – List of the World Bank Operational Policies and Guidelines


Operational Policies (OP) / Bank Practices (BP) / Operation Directives (OD)

OP / BP 4.01 Environmental Assessment
OP / BP 4.04 Natural Habitats
OP 4.09 Pest Management
OP 4.11 Cultural Property
OP / BP 4.12 Involuntary Resettlement
OD 4.20 Indigenous Peoples
OP / BP 4.36 Forestry
OP / BP 4.37 Safety of Dams
OP / BP 7.50 Projects on International Waterways
OP / BP 7.60 Projects in Disputed Areas
BP 17.50 Disclosure of Operational Information

Annexure 2 – Social screening check list

Who are people affected by the project – with categories of persons and intensity of impacts
What is the poverty level of affected persons?
Are directly affected stakeholders agreeable to allow the project?
What are the social issues, impacts of the project (loss of land, loss of livelihood, impact of high voltage transmissions on electrical and other machines, etc)
Does the project require land? If yes how much? How will it be acquired?
Is there any involuntary land acquisition? How will it be acquired (Please note—urgency/emergency clause of the Land Acquisition Act, i.e. Section 17.b, will not be applied)
Are there any affected structures if yes, how many?
Will there be any loss of livelihood of title and non title holders.
Is there a social conflict resolution mechanism in the communities?
Are the social safeguards triggered? If yes, which ones and how.
Any commercial activities affected in urban/rural areas?
Appendix B: Study Team

This appendix provides the list of the key study team members who participated in this ESA.

Citation in the Main Report: Section 1.4.6.

Study Team
The study team is provided below.

M Omar Khalid: He participated in the ESA study as the environmental and social assessment expert and team leader. He carried out the field investigations, stakeholder consultation, impact assessment and ESA report compilation.

Z B Mirza: He provided inputs for the biological resources of the project area, and contributed in impact assessment.

Usman Qazi: He participated in the ESA as the socioeconomic expert. He advised on the socioeconomic assessment and stakeholder consultations.

Sikandar Brohi: He participated in the ESA as the socioeconomic expert. He carried out impact assessment and developed socioeconomic baseline.

Asif Shiraz: As HESCO’s environmental expert, he participated in the field data collection and water analysis. He also reviewed the draft ESA report.

Shamshad Begum: She was part of the study team conducting the stakeholder consultations, and she carried out the consultations for the women of the area.

Ali Nawaz Channa: He participated in the ESA report as the socioeconomic and environmental expert. He carried out the stakeholder consultations and impact assessment.

Mudassar Farooq: He participated in the ESA report as the documentation expert. He participated in the ESA report compilation and report production.

Sadar Nawaz: He provided the CAD and graphics support during the ESA study.
Appendix C: Photographs

This appendix provides photographs of the project sites.
Citation in the Main Report: Chapter 4 and Section 4.4.
C.1 Bukhshapur Grid Station Site

Bukhshapur Grid Station Site

A Settlement near Grid Station Site

Cultivation at Grid Station Site

Another View of Grid Station Site

Grid Station Site and 132-kV Kandhkot – Kashmore Transmission Line

Road Adjacent to Grid Station Site
Appendix C

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ESA Report

C.2 Larkana-III Grid Station Site

Public Consultation at Site

Cultivation at Grid Station Site

Road Adjacent to Grid Station Site

A Settlement near Grid Station Site
C.3 Chamber Grid Station Site

Grid Station Site and Adjacent Road

A Small Settlement near Grid Station Site

Agricultural Activities at Grid Station Site

C.4 Tando Bago Grid Station Site

Grid Station Site

Poly-technic College in Front of Site
Appendix C

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Road Adjacent to Site
Cultivation at Site

C.5 Feed for Larkana Grid Station

Tee-off Point from Larkana-Naseerabad Transmission Line
Cultivation along Route

A settlement near Tee-off Point
500-kV Transmission Line along Route

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Agricultural Activities along Route
Under-construction Larkana Bypass Road along Transmission Line Route

C.6 Feed for Chamber Grid Station

Tando Allahyar Grid Station – Start of Chamber Grid Station Feed
Commercial Area along Route

Transmission Line Route along Hyderabad – Mirpur Khas Road
Route Crosses Main Road

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C.7 Feed for Tando Bago Grid Station

A Settlement near Route

An Orchard along Route

A Road Crossing along Route

Consultation along Route

Tee-off from Badin-Pangrio Transmission Line

Proposed Transmission Line Route
C.8 Feed for Matiari Grid Station

- Tee-off Point from Hala Road – Hala Transmission Line
- General Terrain along Selected Route
- Cultivation along Proposed Route
- An Orchard along Route (Matiari Grid Station in Background)
- Proposed Transmission Line Route
- Cultivation and Existing Transmission Lines along Proposed Route
C.9 Feed for Kandiari Grid Station

Tee-off Point from Sanghar – Mirpur Khas
Transmission Line

General Terrain of Proposed Route

Cultivation and a Track along Route

Irrigated Cultivation along Proposed Route

Crops along Selected Route

Crops and a Water Course along Proposed Route
An Orchard along Selected Route (Just Outside Kandiari Grid Station)

Consultation along Route

C.10 Humayun – Jacobabad Transmission Line

Proposed Route Starts at Humayun Grid Station

A Small Structure along Selected Route

Proposed Route Just Outside Humayun Grid Station

General Terrain along Proposed Route
Appendix C

Consultation Carried Out along Route

A Settlement near Proposed Route

An Existing Transmission Line Crosses Selected Route

Route Crosses a Canal

Route Just Outside Jacobabad City

Route Crosses Shikarpur-Jacobabad Road in Jacobabad
A Congested Settlement along Route near Jacobabad Grid Station

Proposed Transmission Line Entry in Jacobabad Grid Station

C.11 Samaro – Naukot Transmission Line

Proposed Route Just Outside Samaro Grid Station

An 11-kV Feeder Crosses Route

Proposed Route Crosses a Road

A General View of Selected Route
Appendix C

HESCO 6th STG Project (2006-07)
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Cultivation along Route
A Track Crosses Proposed Route

A Barren Patch of Land along Route
A Water Course Crosses Route

Crops along Selected Route
An Orchard along Proposed Route
Appendix C

HESCO 6th STG Project (2006-07)
ESA Report

A Road Crossing along Route

General Terrain along Route

Proposed Route Crosses a Local Road

Route Crosses an 11-kV Feeder

Irrigated Cultivation along Route

A Track along Proposed Route
Some Trees along Route

An Uncultivated Tract of Land along Route

Proposed Route Just Outside Naukot Town

Proposed Route Enters Naukot Grid Station
Appendix D: Wildlife Species of Project Area

This appendix provides lists of the wildlife species of the project area and its surroundings.

Citation in the main report: Section 4.2.

### D.1 Important Mammals of Sindh

<table>
<thead>
<tr>
<th>S.No.</th>
<th>English Name</th>
<th>Scientific Name</th>
<th>Local Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sindh Ibex / Persian Wild Goat</td>
<td><em>Capra aegagrus blythi</em></td>
<td>Sarah, Pahari Bakra</td>
</tr>
<tr>
<td>2</td>
<td>Afghan Urial / Asian Wild Sheep</td>
<td><em>Ovis vignei blanfordi</em></td>
<td>Gad, Pahari Dumba</td>
</tr>
<tr>
<td>3</td>
<td>Indian Desert Gazelle / Chinkara</td>
<td><em>Gazella bennettii</em></td>
<td>Chinkara, Hiran</td>
</tr>
<tr>
<td>4</td>
<td>Black Buck / Indian Savana Antelope</td>
<td><em>Antilope cervicapra</em></td>
<td>Kala Hiran</td>
</tr>
<tr>
<td>5</td>
<td>Hog Deer / Parah Deer</td>
<td><em>Axis porcinus</em></td>
<td>Phara, Barasingha</td>
</tr>
<tr>
<td>6</td>
<td>Blue Bull / Nilgai</td>
<td><em>Boselaphus tragocamelus</em></td>
<td>Neel Gai, Rojh</td>
</tr>
<tr>
<td>7</td>
<td>Indian Wild Ass / Gorkhar / Onager</td>
<td><em>Equus hemionus</em></td>
<td>Khur Jungli Gadha, Gorkhar Knuchhar</td>
</tr>
<tr>
<td>8</td>
<td>Striped Hyaena</td>
<td><em>Hyaena hyaena</em></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Indian Desert Wolf</td>
<td><em>Cains lupus pallipur</em></td>
<td>Bherria, Bagharr</td>
</tr>
<tr>
<td>10</td>
<td>Indian Desert Fox</td>
<td><em>Vulpes vulpes pusillus</em></td>
<td>Lomrri, Lomarr</td>
</tr>
<tr>
<td>11</td>
<td>Caracal / Red Lynx</td>
<td><em>Felis caracal</em></td>
<td>Siah Gosh, Harola</td>
</tr>
<tr>
<td>12</td>
<td>Jungle Cat / Swamp Cat</td>
<td><em>Felis chaus</em></td>
<td>Jungli Billi</td>
</tr>
<tr>
<td>13</td>
<td>Fishing Cat</td>
<td><em>Prionailurus viverrinus</em></td>
<td>Machhi khor billi</td>
</tr>
<tr>
<td>14</td>
<td>Small Indian Civet</td>
<td><em>Viverrcula indica</em></td>
<td>Mushk Billi, Rasse</td>
</tr>
<tr>
<td>15</td>
<td>Honey Badger / Ratel</td>
<td><em>Mellivora capensis</em></td>
<td>Biju, Gor Pat</td>
</tr>
<tr>
<td>16</td>
<td>Scaly Anteater / Pangolin</td>
<td><em>Manis crassicandata</em></td>
<td>Chiunti Khor, Chhalerano</td>
</tr>
<tr>
<td>17</td>
<td>Indus Blind Dolphin</td>
<td><em>Platanista minor</em></td>
<td>Bulhann, Susu Dolphin, Andhy Dolphin</td>
</tr>
<tr>
<td>18</td>
<td>Smooth Coated Otter</td>
<td><em>Lutrogale perspicillata</em></td>
<td>Udh Biao, Luddharr</td>
</tr>
<tr>
<td>19</td>
<td>Flying Fox / Fulvous Fruit Bat</td>
<td><em>Roussettus leschenaulti</em></td>
<td>Urra Lomri, Meva Khore Chimgadar,</td>
</tr>
<tr>
<td>20</td>
<td>Mouse-like Hamster</td>
<td><em>Calomyscus hotsoni</em></td>
<td>Chooha</td>
</tr>
</tbody>
</table>

Source: Sindh Wildlife Department. (Table borrowed from 'Sindh State of Environment and Development' (IUCN, 2004).
## D.2 Important Birds of Sindh

<table>
<thead>
<tr>
<th>S.No.</th>
<th>English Name</th>
<th>Scientific Name</th>
<th>Local Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Great Bustard</td>
<td><em>Ardeotis nigriceps</em></td>
<td>Barri Tiloor, Hukna</td>
</tr>
<tr>
<td>2</td>
<td>Houbara/Macqueen's Bustard</td>
<td><em>Chlamydotis macqueenii</em></td>
<td>Tilor, Houbara</td>
</tr>
<tr>
<td>3</td>
<td>Common/ Blue Peafowl</td>
<td><em>Pavo cristatus</em></td>
<td>Neela More, Mor</td>
</tr>
<tr>
<td>4</td>
<td>Black Francolin/ Partridge</td>
<td><em>Francolinus francolinus</em></td>
<td>Kala Titer, Karo Tittar</td>
</tr>
<tr>
<td>5</td>
<td>Grey Francolin/ Partridge</td>
<td><em>Francolinus pondicerianus</em></td>
<td>Bhura Titer, Achenoo Tittar</td>
</tr>
<tr>
<td>6</td>
<td>Yellow Legged Green Pigeon</td>
<td><em>Treron phoenicoptera</em></td>
<td>Harrial Kabutar</td>
</tr>
<tr>
<td>7</td>
<td>Red Turtle Dove</td>
<td><em>Streptopelia tranquebarica</em></td>
<td>Surkh Fakhta</td>
</tr>
<tr>
<td>8</td>
<td>Dalmatian Pelican</td>
<td><em>Pelecanus crispus</em></td>
<td>Hawasal, Painik Pakhti</td>
</tr>
<tr>
<td>9</td>
<td>Lesser Flamingo</td>
<td><em>Phoenicopterus minor</em></td>
<td>Lumb Dheeng/ Laakho Jani</td>
</tr>
<tr>
<td>10</td>
<td>Oriental Darter/ Anhinga/ Snake Bird</td>
<td><em>Anhinga melanogaster</em></td>
<td>Jall Kawwa</td>
</tr>
<tr>
<td>11</td>
<td>White Stork</td>
<td><em>Ciconia ciconia</em></td>
<td>Safid Laqiaq/ Achihi Toor</td>
</tr>
<tr>
<td>12</td>
<td>Painted Stork</td>
<td><em>Mycteria leucocephala</em></td>
<td>Rangeen Laqiaq, Chit rood loor</td>
</tr>
<tr>
<td>13</td>
<td>Greater Painted Snipe</td>
<td><em>Rostratula benghalensis</em></td>
<td>Rangeen Isnif</td>
</tr>
<tr>
<td>14</td>
<td>Sociable Lapwing</td>
<td><em>Vanellus gregarius</em></td>
<td>Tatthri, Sehkar teeto</td>
</tr>
<tr>
<td>15</td>
<td>Pheasant tailed Jacana</td>
<td><em>Hydrophasianus</em></td>
<td>Peehoo, Peehooori</td>
</tr>
<tr>
<td>16</td>
<td>Spot Billed Duck</td>
<td><em>Anas poecilorhyncha</em></td>
<td>Hanjar Batak, Khanjar</td>
</tr>
<tr>
<td>17</td>
<td>Marbled Teal</td>
<td><em>Marmaronetta angustirostris</em></td>
<td>Mar Marin Batak</td>
</tr>
<tr>
<td>18</td>
<td>Mallard</td>
<td><em>Anas platyrhynchos</em></td>
<td>Neel Sar, Neergi</td>
</tr>
<tr>
<td>19</td>
<td>Brahmini/ Ruddy Shelduck</td>
<td><em>Tadoma ferruginea</em></td>
<td>Surkhab, Laloo Hanj</td>
</tr>
<tr>
<td>20</td>
<td>Brown Headed Gull</td>
<td><em>Larus brunaicephalus</em></td>
<td>Bhor Sar Kina</td>
</tr>
<tr>
<td>21</td>
<td>Caspian Tern</td>
<td><em>Stema caspia</em></td>
<td>Caspian Dhumrah, Kekrah</td>
</tr>
<tr>
<td>22</td>
<td>Indian Skimmer/ Scissors-Bill</td>
<td><em>Rynchops albicollis</em></td>
<td>Qainchi Chounch/Pann Cheer</td>
</tr>
<tr>
<td>23</td>
<td>Sarus Crane</td>
<td><em>Grus antigone</em></td>
<td>Sarus Koonj</td>
</tr>
<tr>
<td>24</td>
<td>Imperial Eagle</td>
<td><em>Aquila heliaca</em></td>
<td>Shahi Oqab</td>
</tr>
<tr>
<td>25</td>
<td>Pallas's Fish Eagle</td>
<td><em>Haliaetus leucocephalus</em></td>
<td>Palasi Oqab, Machh manga</td>
</tr>
<tr>
<td>26</td>
<td>Peregrine Falcon</td>
<td><em>Falco peregrinus</em></td>
<td>Behri/Kala Shaheen</td>
</tr>
<tr>
<td>27</td>
<td>Saker Falcon</td>
<td><em>Falco cherrug</em></td>
<td>Charagh/Saker Baaz</td>
</tr>
<tr>
<td>28</td>
<td>Eurasian Eagle Owl/Great-Horned Owl</td>
<td><em>Bubo bubo</em></td>
<td>Qabbi Ullu</td>
</tr>
<tr>
<td>29</td>
<td>Lesser Golden-backed Woodpcker</td>
<td><em>Dinopium benghalense</em></td>
<td>Sunneri Khatkhat</td>
</tr>
<tr>
<td>30</td>
<td>Sindh Pied Woodpecker</td>
<td><em>Picoides assimilis</em></td>
<td>Sindhi Khatkhat</td>
</tr>
</tbody>
</table>
### D.3 Important Reptiles of Sindh

<table>
<thead>
<tr>
<th>S.No.</th>
<th>English Name</th>
<th>Scientific Name</th>
<th>Local Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Indian Ocean Green Turtle</td>
<td>Chelonia mydas</td>
<td>Samundri Subz Katchhwa</td>
</tr>
<tr>
<td>2</td>
<td>Pacific Olive Ridley Turtle</td>
<td>Lepidochelys olivacea</td>
<td>Sumundri Zaituni Katchhwa</td>
</tr>
<tr>
<td>3</td>
<td>Spotted Pond Turtle</td>
<td>Geoclemys hamiltoni</td>
<td>Talabi Katchhwa</td>
</tr>
<tr>
<td>4</td>
<td>Indian Sawback River Turtle</td>
<td>Kachuga tecta</td>
<td>Daryai Katchhwa</td>
</tr>
<tr>
<td>5</td>
<td>Starred Tortoise</td>
<td>Geochelone elegans</td>
<td>Sitara Katchhwa</td>
</tr>
<tr>
<td>6</td>
<td>Marsh/Snub-Nosed Crocodile</td>
<td>Crocodylus palustris</td>
<td>Magar Muchh, Mugger, Lizard</td>
</tr>
<tr>
<td>7</td>
<td>Yellow / Striped Monitor - Lizard</td>
<td>Varanus flavescens</td>
<td>Wagu Goh, Dhari Dar Goh</td>
</tr>
<tr>
<td>8</td>
<td>Fat-tailed/Leopard Gecko</td>
<td>Eublepharis macularius</td>
<td>Hann Khann, Cheeta Chhupkali</td>
</tr>
<tr>
<td>9</td>
<td>Banded Dwarf Gecko</td>
<td>Tropiocolotes helenac</td>
<td>Dhari Dar Chhoti Chhupkali</td>
</tr>
<tr>
<td>10</td>
<td>Sindh Broad Tailed Gecko</td>
<td>Teratolepis fasciata</td>
<td>Sindhi Moti Dum Chhupkali</td>
</tr>
<tr>
<td>11</td>
<td>Orange Tailed Sand Skink</td>
<td>Eumeces schneideri</td>
<td>Narangi Dum Regmahi, Makh Chatti</td>
</tr>
<tr>
<td>12</td>
<td>Indian Sand Swimmer</td>
<td>Ophiomorus tridactylus</td>
<td>Regmahi, Makh Chatti</td>
</tr>
<tr>
<td>13</td>
<td>Indian Spiny Tailed Lizard</td>
<td>Uromastix hardwicki</td>
<td>Sandha, Sandho</td>
</tr>
<tr>
<td>14</td>
<td>Indian Chameleon</td>
<td>Chamaeleo zeylanicus</td>
<td>Rung Badal Girgit</td>
</tr>
<tr>
<td>15</td>
<td>Indian Rock Python</td>
<td>Molurus</td>
<td>Azdaha, Arrath blah</td>
</tr>
<tr>
<td>16</td>
<td>Russelle Sand Boa</td>
<td>Enyx conicus</td>
<td>Russelle ki do muhi</td>
</tr>
<tr>
<td>S.No.</td>
<td>English Name</td>
<td>Scientific Name</td>
<td>Local Name</td>
</tr>
<tr>
<td>-------</td>
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</tr>
<tr>
<td>17</td>
<td>Oxus / Black Cobra</td>
<td><em>Naja oxiana</em></td>
<td>Kala Naag, Cobra</td>
</tr>
<tr>
<td>18</td>
<td>Indian Common Krait</td>
<td><em>Bungarus Caeruleus</em></td>
<td>Sang choor, Peeun Blah</td>
</tr>
<tr>
<td>19</td>
<td>Russelle's Viper</td>
<td><em>Vipera russelli</em></td>
<td>Ghorrial, Dumbhar Blah</td>
</tr>
<tr>
<td>20</td>
<td>Red Spotted Diadem Snake</td>
<td><em>Sphalcoreopsis arenanus</em></td>
<td>Shahi Naag, Korarr</td>
</tr>
<tr>
<td>21</td>
<td>Pakistan Ribbon / Sand Snake</td>
<td><em>Psammophis leithi</em></td>
<td>Regi Samp, Shehgi</td>
</tr>
<tr>
<td>22</td>
<td>Glossy Bellied Racer</td>
<td><em>Coluber ventromaculatus</em></td>
<td>Paharri Samp, Par Blah</td>
</tr>
<tr>
<td>23</td>
<td>Common Rat Snake / Dhaman</td>
<td><em>Ptyas mucosus</em></td>
<td>Dhamman, Kua mar</td>
</tr>
<tr>
<td>24</td>
<td>Sindh River Snake</td>
<td><em>Enhydris pakistanicus</em></td>
<td>Daryai Samp</td>
</tr>
<tr>
<td>25</td>
<td>Beaked Sea Snake</td>
<td><em>Enhydrina schistosus</em></td>
<td>Chonch dar Samundari Samp</td>
</tr>
<tr>
<td>26</td>
<td>Annulated Sea Snake</td>
<td><em>Hydrophis cyanocinctus</em></td>
<td>Dhari dar, Samundari Samp</td>
</tr>
<tr>
<td>27</td>
<td>Slender Blind Snake</td>
<td><em>Typhlops porrects</em></td>
<td>Andha Samp, sampolia</td>
</tr>
<tr>
<td>28</td>
<td>Tiger Bull Frog</td>
<td><em>Rana tigers</em></td>
<td>Maindak Dedhar</td>
</tr>
<tr>
<td>29</td>
<td>Indus Toad</td>
<td><em>Bafo andersori</em></td>
<td>Khushki Ka Maindak</td>
</tr>
</tbody>
</table>

Source: Sindh Wildlife Department. (Table borrowed from 'Sindh State of Environment and Development' (IUCN, 2004).
Appendix E: Stakeholder Consultations, Field Investigations and Crop Damage Data

This appendix provides details of the grass root stakeholder consultations and field investigations.

Citation in the main report: Chapter 5, Sections 7.6 and 9.3.

E.1 Grass Root Stakeholder Consultations

E.1.1 Bukhshapur Grid Station Site and its Surroundings

PC No: 1
Date: 6/16/2007
District: Kashmore
Location: Syed Muhalla
Name of Village/Locality: Ghous Pur
No of Houses: 200
Population of Area (Approx): 1,500
Major Casts/Communities: Syed, Dewan, Malik, Shaikh and Behri Baloch
Stake Holders Consulted: Housewives
Any Dispute on the Project Land: No disputes were reported.

Water Availability: Yes
Quality of Water: Saltish
Water Drinkable: Yes
Water Table: 20-25 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Beghari Sindh Feeder
Sanitation Facility: Not Developed
Sewerage Facility: Under Construction
Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Excessive billing, frequent and long power breakdowns and low voltage
Roads: Semi metalled
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): Community supported the project
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and related business activity
Major Crops: Rice and wheat
Major Professions: Farming, labour and Govt jobs
Industries of Area: Flour mills, ice factories, and rice mills
Poverty Level of Community in Project Area: Mostly poor.
Major disease: Hepatitis, malaria and kidney disorders
Agricultural problems: Water logging and salination
Social issues: Poor law and order, illiteracy, unemployment and poverty

Views and Apprehension of Community about Project
The community was appreciative of the project and opined that it will solve the electricity related problems. They were apprehensive about the escalation in electric tariff.

Expectations of Community about the Project
The community expected the project to generate employment and business opportunities in the area.

Names of Stakeholders Consulted

1. Mrs. Murad Ali Shah
2. Mrs. Ibrahim Shah
3. Mrs. Yunus Shah
4. Mrs. Rahim Shah
5. Mrs. Kareem Shah
6. Mrs. Muhammad Ibrahim Malik
7. Mrs. Doctor Kishwar Lal
8. Mrs. Jeewanti Bai
9. Ms. Pinki Shewlani

PC No: 2

Date: 6/16/2007
District: Kashmore
Location: Muhki Muhalla

Name of Village/Locality: Ghous Pur
No of Houses: 150
Population of Area (Approx): 1,800
Major Casts/Communities: Hindu and Ogahi

Stake Holders Consulted: House Wives and Family Members
Any Dispute on the Project Land: None reported.

Water Availability: Yes
Quality of Water: Saltish
Water Drinkable: Yes
Water Table: 20-25 Ft

Irrigation Water Availability: Yes
Irrigation Water Source: Beghari Sindh Feeder
Sanitation Facility: Not Developed
Sewerage Facility: Under Construction

Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Unannounced load Shedding, over billing and low voltage

Roads: Semi Metalled

Attitude of Community Members (In General): Cooperative
Attitude of Community Members (For Project): Community welcomed the project
School: Yes
School Building: Yes
Electricity in School: Yes

Basic Health Unit: Yes
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and related activities.

Major Crops: Rice and wheat

Major Professions: Farming, labour and Govt jobs

Industries of Area: Flour mills, ice factories, petrol pumps and rice mills

Poverty Level of Community in Project Area: Mostly poor.

Major diseases: Hepatitis (B), Malaria and Kidney Disorders

Agricultural issues: Water logging, salinity

Social issues: Poor law and order, illiteracy, unemployment and poverty.

Views and Apprehension of Community about Project

The community welcomed the project and hoped that it would solve their electricity-related problems. They did not have any apprehensions about the project.

Expectations of Community about the Project

The community expected HESCO to lower the electricity tariff. They expected the project to provide employment opportunities.

Names of Stakeholders Consulted

1. Mst. Rehmat Ogahi
2. Mst. Nazeeran Ogahi
3. Ms. Sanam Ogahi
4. Mst. Azizan Ogahi
5. Ms. Fozia Ogahi
6. Mst. Zainab Ogahi
7. Ms. Shanty Asserdas
8. Mst. Sharbatan Ogahi

PC No: 3

Date: 6/16/2007

District: Kashmore

Location: Masjid Muhalla

Name of Village/Locality: Ghous Pur

No of Houses: 200

Population of Area (Approx): 3,000

Major Casts/Communities: Dewan

Stake Holders Consulted: Housewives
Any Dispute on the Project Land: No dispute was reported.

Water Availability: Yes
Quality of Water: Saltish
Water Drinkable: Yes
Water Table: 20-25 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Beghari Sindh Feeder
Sanitation Facility: Not Developed
Sewerage Facility: Under Construction
Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Excessive billing, frequent power outages and low voltage.
Roads: Semi Metalled
Attitude of Community Members (In General): Cooperative
Attitude of Community Members (For Project): Community welcomed the project
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and related activities.
Major Crops: Rice and wheat
Major Professions: Farming, labour and government jobs
Industries of Area: Flour mills, ice factories, petrol pumps and rice mills
Poverty Level of Community in Project Area: Mostly poor.
Major Diseases: Hepatitis, malaria and kidney disorders
Agricultural problems: Water logging, salinity and shortage of water
Social issues: Poor law and order.
Views and Apprehension of Community about Project

The community did not have much to say about the project. They did not have any apprehensions either about the project.

Expectations of Community about the Project

The community did not have any expectation from the project.

Names of Stakeholders Consulted

1. Ms. Nirmala Devi
2. Ms. Kiran
3. Ms. Sangeeta
4. Ms. Kanta
5. Ms. Apurna
6. Ms. Rakhi
7. Ms. Sabheeta
8. Ms. Karishma
9. Ms. Nikita Rani
10. Mst. Mukesh Kumar
11. Mst. Basant Kumar
12. Mst. Ajeet Kumar
14. Mr. Tara Chand
15. Mr. Partab Rai
16. Mr. Ram Chand
17. Mr. Naresh Kumar

PC No: 4
Date: 6/16/2007
District: Kashmore
Location: Malik Mochi Muhalla
Name of Village/Locality: Ghous Pur
No of Houses: 130
Population of Area (Approx): 1,800
Major Casts/Communities: Malik, Dewan and Mochi
Stake Holders Consulted: Housewives and other women of the area
Appendix E

HESCO 6th STG Project (2006-07)
ESA Report

Any Dispute on the Project Land: None reported.

Water Availability: Yes
Quality of Water: Saltish
Water Drinkable: Yes
Water Table: 20-25 Ft

Irrigation Water Availability: Yes
Irrigation Water Source: Beghari Sindh Feeder
Sanitation Facility: Not Developed
Sewerage Facility: Under Construction

Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Un Announced Load Shedding and Heavy Billing
Roads: Semi Metalled

Attitude of Community Members (In General): Cooperative and Supportive.
Attitude of Community Members (For Project): Community welcomed the project.
School: Yes
School Building: Yes
Electricity in School: Yes

Basic Health Unit: Yes
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes

Major Economic Activity in Area: Agriculture and related economic activity
Major Crops: Rice and wheat

Major Professions: Farming, labour and government jobs
Industries of Area: Flour mills, ice factories, petrol pumps and rice mills

Poverty Level of Community in Project Area: Mostly poor
Major Disease: Hepatitis, malaria and kidney disorders
Agricultural problems: Shortage of water, salinity and water logging
Social Issues: Tribal disputes, poor law and order, unemployment and poverty.
Views and Apprehension of Community about Project

Community members were of the view that the project was going to stabilize the general electricity and improve the economic state of the area. They however were apprehensive about the possibility of increased electricity tariff.

Expectations of Community about the Project

The community members wanted some relief particularly for the poor of the area in terms of cheaper electricity.

Names of Stakeholders Consulted

1. Mr. Ahmed Mochi
2. Mr. Altaf Hussain Malik
3. Mr. Sohail Ahmed Malik
4. Mr. Sadiq Malik
5. Mr. Saleem Ahmed Malik
6. Mr. Nazeer Hussain Mochi
7. Mr. Terrath Mal
8. Mr. Suneel
9. Ms. Rakhi
10. Ms. Rajni Dewnani
11. Mst. Raj Kumar

PC No: 5

Date: March 9, 2007
District: Kashmore
Location: Petrol Pump
Name of Village/Locality: Bukhshapur Union Council (UC)
No of Houses: 450
Population of Area (Approx): 3,300
Major Castes/Communities: Domki, Sundrani, Bhutto and Hindu
Stakeholders Consulted: Local influentials, traders, UC Nazim, Councilors and community members (project beneficiaries).

Any Dispute on the Project Land: No disputes were apparent during the consultations, nor any were reported by the community. The community members were advising each other to talk in support of the project, when the consultation team approached them.

Water Availability: Yes

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1 Formerly part of Jacobabad District.
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 25-30 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Noor Wah (Local Distributary).
Water Supply Facility: Developed, but non-functional since long due to shortage of funds and poor quality of electricity.
Sewerage Facility: Partly developed in some areas but rest of the town is without any system.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Unstable supply due to lengthy feeders, voltage fluctuation, frequent power outages, long hours of load shedding.
Roads: Metalled + Semi-Metalled
Attitude of Community Members (In General): Cooperative and Supportive
Attitude of Community Members (For Project): Community supported the Project. It was of the opinion that this would benefit the area and that this would be the first example of its kind that people were consulted for a project like this.
School: Yes (Primary)
School Building: New building of school
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Cultivation, trade, pesticides business and other agriculture related businesses.
Major Crops: Rice and wheat
Major Professions: Farming, Govt jobs and trade
Industries of Area: 2 ice factories, 1 flour mill and 5 rice mills.
Economic condition of Community in Project Area: Poor
Major diseases: Malaria, TB, hepatitis and typhoid.
Agricultural problems: Water logging and salinity causing loss of otherwise productive land.
Social problems: Family clashes, robberies, feudal system and illiteracy.

Views and Apprehensions of Community about Project
The participants of the consultation seemed to be overwhelmed to know about the project, as the establishment of a new grid station in the area was their old and long
awaited desire. The businessmen community welcomed the project in particular as they were compelled to use alternate and costly sources of electricity like diesel generators and petrol generators in the absence of continuous supply of electricity in the area. A few of the community members were of the opinion that this project would not provide any relief to common masses. According to them this project was being implemented on the demand of the political leaders of the area.

**Expectations of Community about Project**

The community expected the project to alleviate the electricity related woes of the areas. The farmers among the people consulted generally expected the project construction works to be carried out in a manner that would avoid damage to their crops. They expected HESCO to pay them compensation in case of any unavoidable damage during construction.

**Names of Stakeholders Consulted**

1. Mr. Altaf Domki
2. Mr. Ramesh Lal
3. Mr. Seth Keyal Das
4. Mr. Bawani Mal
5. Mr. Atta Ullah Khan
6. Mr. Nawaz Ali Khan
7. Mr. Biland Ali Bhuutto
8. Mr. Sunder Das
9. Mr. Zafar Ali Domki
10. Mr. Wahid Domki
11. Mr. Din Muhammad
12. Mr. Karim Bux Domki
13. Mr. Kanya Lal
14. Mr. Haresh Chand
15. Mr. Tejo Mal
16. Mr. Kanya Lal

**PC No: 6**

**Date:** March 9, 2007

**District:** Kashmore

Location: Village Autaq - A meeting of local influentials was already in process when field team approached them.

Name of Village/Locality: Badani UC

No of Houses: 270

Population of Area (Approx): 2,600

Major Castes/Communities: Domki, Syed, Bhutto and Hindu

Stakeholders Consulted: UC Nazim, mill owners, govt. officials, farmers, laborers and community members (project beneficiaries).

Any Dispute on the Project Land: None reported.

Water Availability: Yes

Quality of Water: Salty + Sweet

Water Drinkable: No
Water Table: 70-80 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Noor Wah
Water Supply Facility: Not Developed. The community uses hand pumps to obtain water for their domestic needs.
Sewerage Facility: Sewerage system is semi functional
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent power outages, load shedding, system over loading and voltage fluctuations.
Roads: Metalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): In general the community members were supporting the project. The attitude and level of participation in the consultation was witness to it.
School: Yes
School Building: Building Available
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: No
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Cultivation, trade, pesticides business, agriculture related businesses, petrol pumps and shops.
Major Crops: Rice, wheat, barley, etc.
Major Professions: Farming, general labor, trade.
Industries of Area: 3 rice mills, 2 ice factories and a flour mill.
Economic Condition of Community in Project Area: Poor.
Major diseases: Malaria, TB, hepatitis and typhoid.
Agriculture problems: Water logging and salinity causing loss of productive land.
Social problems: Poor law and order, feudal system and illiteracy.

Views and Apprehensions of Community about Project
The people generally welcomed the project, and appreciated HESCO's efforts to provide much needed relief to the existing electrical system in the area. Their prime apprehensions were pertaining to any loss of land or crops caused by the project activities.

Expectations of Community about Project
A few community members expected employment opportunities during the project. There were a few of the community members who were demanding the compensation of the crops and land utilized in the project. They were briefed by the HESCO officials about the mechanism for payment of land used in the project.
Appendix E  
HESCO 6th STG Project (2006-07)  
ESA Report

Names of Stakeholders Consulted

1. Mr. Amanullah Bhutto  
   UC Nazim,  
   UC Badani

2. Mr. Mehrab Khan  
   Factory Owner  
   Mumtaz Rice Mills

3. Mr. Abdul Rauf  
   Factory Owner  
   Ice Factory

4. Mr. Ramesh Lal  
   Mukhi (Leader)  
   Leader of Hindus

5. Mr. Zulfiqar Bhutto  
   Community Member  
   Local Resident

6. Mr. Aleem Domki  
   Community Member  
   Local Resident

7. Mr. Dhani Bux Domki  
   Community Member  
   Local Resident

8. Mr. Rarim Bux Domki  
   Community Member  
   Local Resident

9. Mr. Heera Nand  
   Community Member  
   Local Resident

10. Mr. Hemant Kumar  
    Community Member  
    Local Resident

11. Mr. Thakur Lal  
    Community Member  
    Local Resident

12. Mr. Raj Kumar  
    Community Member  
    Local Resident

PC No: 7  
Date: March 9, 2007  
District: Kashmore  
Location: Proposed Site of Grid Station  
Name of Village/Locality: Village Adam Khan  
No of Houses: 20  
Population of Area (Approx): 150  
Major Castes/Communities: Domki Community  
Stakeholders Consulted: Land owner and local residents (project affectees and beneficiaries).  
Any Dispute on the Project Land: None reported.  
Water Availability: Yes  
Quality of Water: Sweet  
Water Drinkable: Yes  
Water Table: 20-30 Ft  
Irrigation Water Availability: Yes  
Irrigation Water Source: Noor Wah  
Water Supply Facility: Not Developed. The community uses hand pumps to obtain water for their domestic needs.  
Sewerage Facility: Not Developed  
Natural Gas Availability: No  
Electricity Availability: Yes  
Electricity Problems: Frequent power outages, voltage fluctuation, low voltage and long hours of load shedding.  
Roads: Metalled  
Attitude of Community Members (In General): Cooperative and supportive.  
Attitude of Community Members (For Project): Community supported the project.
School: No, there is no school (Boys or Girls) in the community.

School Building: NA

Electricity in School: NA

Basic Health Unit: No

Rural Health Center: No

Private Practitioners: No

Alternative Medicine Facility: No

Major Economic Activity in Area: Agriculture, related business activities and shops.

Major Crops: Wheat, rice and others.

Major Professions: Farming

Industries of Area: None

Economic Condition of Community in Project Area: Poor

Major Diseases: Malaria, typhoid, etc.

Social Problems: Family clashes, poor law and order, feudal system and illiteracy.

Views and Apprehensions of Community about Project

The community generally approved the project and viewed it favorably. They though it would address their electricity-related problems. Some of the community members were of the opinion that this project would not bring any major change in the area, as this project would improve the supply system only and there would be no relief for the general consumers of electricity.

Expectations of Community about Project

Community members were expecting the electricity supply system to improve in general but they were also demanding the electricity tariff to come down for this particular area as this area is backward in terms of economic activity and industry. There were few local industrialists and owners of closed factories (rice mills and ice factories) who were expecting that their closed mills would be re opened once the electricity supply system is improved. The owner of the land to be acquired for the proposed grid station expected HESCO to fully compensate him for the land take.

Names of Stakeholders Consulted

1. Mr. Haji Hidayat Ullah Domki  Land Owner
2. Mr. Lal Muhammad Domki  Resident
3. Mr. Sana Ullah Domki  Resident
4. Mr. Mumtaz Ahmed  Local Influential
5. Mr. Naseer Ahmed  Local Influential
6. Mr. Akhtar Hussain Shah  Local Influential
7. Mr. Ahmed Domki  Resident

PC No: 8

Date: March 9, 2007

District: Kashmore

Location: Inside Village

Name of Village/Locality: Village Ali Bux Domki
No of Houses: 12
Population of Area (Approx): 85
Major Castes/Communities: Domki community
Stakeholders Consulted: Local residents (project beneficiaries and affectees).
Any Dispute on the Project Land: No disputes were reported by the community.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 20-30 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Noor Wah
Water Supply Facility: Not Developed. The community uses hand pumps to obtain water for their domestic needs.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent power outages, voltage fluctuation, low voltage and long hours of load shedding, particularly during summers.
Roads: Metalled
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): Community supported the project.
School: No
Electricity in School: No
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and related business activities.
Major Crops: Wheat and rice
Major Professions: Farming and labor
Industries of Area: None.
Economic conditions of Community in Project Area: Poor
Major diseases in the area: Malaria and water-borne diseases.
Social problems: Poor law and order, feudal system and illiteracy.
Views and Apprehensions of Community about Project

The people consulted generally appreciated the project and welcomed HESCO initiative to improve the electrical system in the area. The community did not share any apprehensions or reservations about the project.

Expectations of Community about Project

The community expected the project to compensate them in case of any damage to their crops or other assets.

Names of Stakeholders Consulted

1. Mr. Alan Khan Domki Local Influential
2. Mr. Murad Ali Domki Land owner
3. Mr. Dadan Ali Khan Domki Land Lord
4. Mr. Kadir Ali Domki Farmer
5. Mr. Hasil Khan Domki Self Cultivator
6. Mr. Zafar Ullah Khan Domki Land owner
7. Mr. Asad Ali Khan Domki Farmer
8. Mr. Sarwar Ali Khan Domki Teacher
9. Mr. Nisar Mallah Doctor.

E.1.2 Humayun – Jacobabad Transmission Line Route and Surroundings

PC 1

Date: 6/15/2007
District: Shikarpur
Location: Awan Muhala - Shikarpur
No of Houses: 250
Population of Area (Approx): 1,000
Major Casts/Communities: Agha Duranni, Abro, Awan, Soomro, Lashari, Channa, Siddiqui, Qazi, Syed, Mangi, Brohi, Kakhrani and Jakhrani

Stake Holders Consulted: Housewives.

Any Dispute on the Project Land: None reported.

Water Availability: Yes
Quality of Water: potable.
Water Drinkable: Yes
Water Table: 30-35 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Begharri Canal
Sanitation Facility: Not Developed
Sewerage Facility: Developed
Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Un-announced load shedding and heavy billing, and poor customer services centres performance.
Rocks: Metalled and Semi Metalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): Community supported the project; infact they were really glad to know about the details of the project. They welcomed this move by HESCO.
School: Yes
School Building: Yes
Electricity in School: Yes
Health facilities: District Civil Hospital
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Cottage industry of mango pickle and agriculture based economic activities.
Major Crops: Wheat, rice, oil seeds and vegetables.
Major Professions: Employment in small scale business, service sector and govt service
Industries of Area: Oil mills, rice mills, flour mills and pickle factories
Poverty Level of Community in Project Area: Mostly poor.
Major diseases: Malaria, TB, hepatitis and typhoid
Agricultural problems: Water logging.
Social issues: Poor law and order, unemployment

Apprehension of Community about Project
Community members were of the view that these types of projects are not for them. The richer and tribal chiefs are to be benefited from these. They were least concerned about the economical benefits of the project. They were of the view that these projects won't lower the high electricity tariff.

Expectations of Community about Project
Community members were expecting the present electricity system to be stabilized once the present project comes to an end. They did not expect any major or sudden improvement in load shedding reduction but they were saying that this project will definitely help in easing its intensity.
Names of Stakeholders Consulted

1. Mst. Khalida Begum Bullo
2. Mst. Haseena Abro
3. Ms. Marvi Baloch
4. Ms. Naima Baloch
5. Ms. Shabnam Sanjrani
6. Mst. Raheela Buriro
7. Mst. Sakeena Pathan

PC No: 2

Date: 6/15/2007
District: Shikarpur
No of Houses: 400
Population of Area (Approx): 3,000

Major Casts/Communities: Bhutto, Soomro, Bhatti, Memon, Kalhoro, Syed, Channa, Abro, Surhio and Dewan.

Stakeholders Consulted: Housewives

Any Dispute on the Project Land: no dispute was reported during the consultations.

Water Availability: Yes
Quality of Water: potable
Water Table: 30-35 Ft

Irrigation Water Availability: Yes
Irrigation Water Source: Begharri Canal

Sanitation Facility: Not developed
Sewerage Facility: Developed

Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Excessive billing, un-announced load shedding.

Roads: Metalled and Semi Metalled

Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): Community supported the project

School: Yes
School Building: Yes  
Electricity in School: Yes  
Health facilities: District Civil Hospital  
Rural Health Center: NA  
Private Practitioners: Yes  
Alternative Medicine Facility: Yes  
Major Economic Activity in Area: Cottage industry of mango pickle and agriculture based economic activity.  
Major Crops: Wheat, rice and vegetable  
Industries of Area: Oil mills, rice mills, flour mills and pickle factories  
Poverty Level of Community in Project Area: Mostly poor.  
Major diseases: Kidney problems, hepatitis and malaria.  

Agricultural problems: Shortage of irrigation water  
Social issues: Illiteracy, unemployment and absence of civic sense  

Views and Apprehension of Community about Project  
Community members were of the opinion that this project is of no use to local people as it is not benefiting them directly. They did not have any apprehension about the proposed project.  

Expectations of Community about Project  
Community members were not expecting any benefit from the proposed project. They however thought that the project would bring economic activity in the area.  

Names of Stakeholders Consulted  
1. Mrs. Altaf Ahmed Abro  
2. Ms. Nosheen Abro  
3. Ms. Naseem Abro  
4. Ms. Roshan Bhutto  
5. Mst. Hakim Zadi Bhutto  
6. Mst. Kulsoom Rani  

PC No: 3  
Date: 6/15/2007  
District: Shikarpur
Appendix E

No of Houses: 250
Population of Area (Approx): 1,800
Major Casts/Communities: Qazi, Soomro, Siddiqui, Memon, Dewan and Sanjrani
Stakeholders Consulted: Housewives and other women of the area.
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: potable
Water Table: 25-30 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Begharri Canal
Sanitation Facility: Not Developed
Sewerage Facility: Developed
Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Over billing, long shut downs and low voltages
Roads: Metalled and semi metalled
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): Community was indifferent about the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Health facilities: District Civil Hospital
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Cottage industry, mostly mango pickle factories and embroidery
Major Crops: Wheat, rice and vegetable
Industries of Area: Mini oil mills, rice mills, flour mills and pickle factories
Poverty Level of Community in Project Area: The community belonged to middle and lower-middle income group.
Major diseases: Kidney problems, diachorrea, hepatitis and malaria.
Agricultural problems: Salinity and water logging affecting the otherwise fertile land.
Social issues: Illiteracy and unemployment.

Views and Apprehension of Community about Project
The community members were indifferent about the project. They expected the government to invest in basic facilities, and wanted the authorities to release funds for the uplift of the area.

Expectations of Community about Project
The community did not share any expectation with regard to the proposed project.

Names of Stakeholders Consulted
1. Mst. Zahida Qazi
2. Mst. Hina Qazi
3. Ms. Qudsia
4. Mrs. Hakim Ali
5. Mrs. Khursheed Bano
6. Mrs. Aqeel Ahmed
7. Mrs. Laq Ali Soomro

PC No: 4
Date: 6/15/2007
District: Shikarpur
Location: Main Bus Stop - Shikarpur Road
Name of Village/Locality: Village Jahan Khan
No of Houses: 30
Population of Area (Approx): 250
Major Casts/Communities: Mahar, Jatoi, Soomro, Mallah and Mughal
Stakeholders Consulted: General public
Any Dispute on the Project Land: No disputes were reported.
Water Availability: Yes
Quality of Water: Sweet + Saltish
Water Drinkable: Yes
Water Table: 20-25 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Local Channel
Sanitation Facility: Not Developed
Sewerage Facility: Not Developed
Natural Gas Availability:
Electricity Availability: Yes
Electricity Problems: Old system, frequent power outages.
Roads: Metalled and Semi Metalled
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): Community warmly welcomed the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and related business activities
Major Crops: Wheat, rice and vegetable
Major Professions: Labour and Govt Service
Industries of Area: Ice factories, flour mills, petrol pumps, mid way hotels and seed factories.
Poverty Level of Community in Project Area: Generally poor.
Major diseases: Kidney disorders, diarrohea, malaria and skin diseases

Agricultural problems: Water logging
Social issues: Poor law and order situation, unemployment and poverty.

**Views and Apprehension of Community about Project**

Community members were of the view that the project was going to stabilize the general electricity and improve the economic state of the area. They were using costly petrol and diesel generators to run their business and houses in absence of electricity. The community did not share any apprehension about the project.

**Expectations of Community about the Project**
Appendix E

The community expected that in addition to improving the electricity network of the area, the project would bring employment opportunities, and improve the general economic condition of the area.

Names of Stakeholders Consulted

1. Ms. Maheen Jatoi
2. Ms. Naheed Mughal
3. Mst. Shamim Mahar
4. Mrs. Wali Dino Mallah
5. Mrs. Rab Dino Mallah
6. Mrs. Hadi Dino Mallah
7. Mrs. Razi Dino Mallah
8. Mrs. Lai Dino Mallah
9. Mr. Allah Warrayo Jatoi
10. Mr. Naveed Ahmed Mughal
11. Mr. Ghulam Abbas Mughal.

PC No: 5
Date: 6/15/2007
District: Shikarpur
Location: Main Bus Stop - Shikarpur Road
Name of Village/Locality: Lakhi Ghulam Shah
No of Houses: 60
Population of Area (Approx): 300
Major Casts/Communities: Lakho, Syed, Mahar and Samejo
Stake Holders Consulted: Passengers, shoppers, transporters and general public
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Sweet + Saltish
Water Drinkable: Yes
Water Table: 15-20 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Local Channel
Sanitation Facility: Not Developed
Appendix E

HESCO 6th STG Project (2006-07)
ESA Report

Sewerage Facility: Not Developed

Natural Gas Availability:

Electricity Availability: Yes

Electricity Problems: Frequent shut downs, load shedding, and low voltage.

Roads: Metalled and Semi Metalled

Attitude of Community Members (In General): Cooperative and supportive

Attitude of Community Members (For Project): Community supported the project.

School: Yes

School Building: Yes

Electricity in School: Yes

Basic Health Unit: Yes

Rural Health Center: NA

Private Practitioners: Yes

Alternative Medicine Facility: Yes

Major Economic Activity in Area: Agriculture and related business activities

Major Crops: Rice and wheat

Major Professions: Farming and Labour

Industries of Area: Rice mills and mini flour mills

Poverty Level of Community in Project Area: Poor

Major disease: Hepatitis, skin diseases

Agricultural problems: Barren and water logged land.

Social issues: Poor law and order, unemployment and poverty.

Views and Apprehension of Community about Project

The community generally appreciated the project. They did not share any apprehension about the proposed activities.

Expectations of Community about the Project

Community warmly welcomed the proposed project and showed their great satisfaction on the proposed project. This was our old demand stated an old woman. We are sick of load shedding by the HESCO authorities and are in no mood to further sustain the financial loss caused by the load shedding. We hope this project is going to help us in saving our hard earned money to be utilized on petrol and diesel engine to water our crops and fields.

Names of Stakeholders Consulted

1. Mai Nooran Lakho
2. Mai Janul Lakho
3. Mai Sayani Lakho
4. Mai Sabhaghi Lakho
5. Mai Hajul
6. Mst. Hakim Zadi
7. Mr. Muhammad Shabbir Samejo
8. Mr. Muneer Ahmed Mahar
9. Mr. Kareem Bux Samejo
10. Mr. Mehtab Ali Lakho
11. Mr. Latif Dino.

**PC No: 6**
Date: March 10, 2007
District: Shikarpur
Location: Near Humayun Grid Station
Name of Village/Locality: Village Mehar Ali Sadhayo
No of Houses: 18
Population of Area (Approx): 150
Major Castes/Communities: Sadhayo, Chandio Soomro, Shaikh, Dayo and Solangi.
Stakeholders Consulted: Local residents and influentials of the area (mostly project affectees).
Any Dispute on the Project Land: No disputes were reported during the consultations.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 25-30 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Local Channel
Water Supply Facility: The community uses hand pumps to obtain water for their domestic needs.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent power shutdown, long hours of load shedding.
Roads: Semi Metalled
Attitude of Community Members: Generally cooperative and supportive, as demonstrated during the consultation. The community welcomed the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: No
Private Practitioners: Yes
Alternative Medicine Facility: No

Major Economic Activity in Area: Agriculture and related business activities. A few brick kilns also exist in the area.


Major Professions: Farming and labour.

Industries of Area: None.

Economic Conditions of Community in Project Area: Poor

Major diseases: Malaria, TB, Hepatitis and Typhoid.

Agricultural problems: Shortage of irrigation water.

Social problems: Poor law and order, illiteracy.

Views and Apprehensions of Community about Project

The community generally welcomed the project, and appreciated HESCO’s plans to improve the electricity network in the area. No apprehensions were raised during the consultation.

Expectations of Community about Project

Majority of the members were asking about the new jobs and business opportunities to be created by this project. In the absence of any major industry in the area, this project was viewed as a ray of hope for the laborers of area. Laborers of area were expecting more job opportunities from this project.

Names of Stakeholders Consulted

1. Mr. Muhammad Ismail Sadhayo Brick Kiln Owner
2. Mr. Ghulam Qadir Dayo Brick Kiln Laborer
3. Mr. Ghulam Haider Solangi Resident of Area
4. Mr. Ali Sher Chando Farmer
5. Mr. Dhani Bux Chandio Farmer
6. Mr. Miyal Khan Sadhayo Farmer
7. Mr. Ghulam Haider Soomro Resident
8. Mr. Allah Dino Soomro Laborer
9. Mr. Moula Bux Soomro Laborer
10. Mr. Miyal Soomro Laborer
11. Mr. Sheral Shaikh Donkey Cart Loader

Date: March 10, 2007

District: Jacobabad

Location: Transmission Line Route
Name of Village/Locality: Village Achar Khan Brohi
No of Houses: 8
Population of Area (Approx): 65
Major Castes/Communities: Brohi
Stakeholders Consulted: Local residents (mostly project affectees).
Any Dispute on the Project Land: No disputes were reported during the consultations.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 25-30 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Local Channel
Water Supply Facility: Not Developed. The community uses hand pumps to obtain water for their domestic needs.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent power shutdowns, voltage fluctuations, excessive electricity billing.
Roads: Non Metalled but under construction.
Attitude of Community Members: Aggressive but cooperative. The community generally supported the project.
School: No
School Building: No
Electricity in School: No
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and related business activities.
Major Professions: Farming, livestock rearing and labour.
Industries of Area: None.
Economic Condition of Community in Project Area: Poor.
Major diseases: Malaria.
Social problem: Illiteracy.
Views and Apprehensions of Community about Project

According to the people consulted, the community of the area suffers a lot because of frequent power outages and long hours of load shedding. They expected this project to improve the situation of demand and supply in the area. The community was concerned about any possible damage to their crops during the construction activities. They were also concerned about the risk of electrocution.

Expectations of Community about Project

Community members were expecting to get jobs in the project (during the construction of transmission line). Majority of the community was visualizing this project to be a milestone in the area.

Names of Stakeholders Consulted

1. Mr. Kareem Brohi  
   Land Owner
2. Mr. Abdul Hameed Brohi  
   Resident
3. Mr. Abdul Samad Brohi  
   Resident
4. Mr. Allah Dino Brohi  
   Resident
5. Mr. Muhammad Brohi  
   Resident
6. Mr. Allah Rakhiyo Brohi  
   Resident
7. Mr. Haji Ali Nawaz Brohi  
   Resident
8. Mst. Jannat Khatoon  
   House Wife
9. Mst. Gul Bibbi  
   House Wife
10. Mst. Zar Khatoon  
    House Wife.

PC No: 8

Date: March 10, 2007

District: Jacobabad

Location: Transmission line route

Name of Village/Locality: Village Abad

No of Houses: 300

Population of Area (Approx): 1800

Major Castes/Communities: Unar

Stakeholders Consulted: Local residents and influentials of the area (project beneficiaries and affectees).

Any Dispute on the Project Land: None reported.

Water Availability: Yes

Quality of Water: Salty

Water Drinkable: No

Water Table: 30-40 Ft

Irrigation Water Availability: Yes

Irrigation Water Source: Water Courses

Water Supply Facility: The community uses hand pumps to obtain water for their domestic needs.

Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Excessive electricity billing, power outages, longer time to fix electricity faults.
Roads: Semi Metalled.
Attitude of Community Members: Cooperative and supportive. The community was generally supportive of the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and related business activities.
Major Professions: Farming, Govt jobs and labour.
Industries of Area: None.
Economic condition of Community in Project Area: Poor.
Major diseases: Malaria, TB, hepatitis and typhoid.
Agricultural problems: Water logging.
Social problems: Unemployment.

Views and Apprehensions of Community about Project

The community members generally appreciated the efforts made by the present government to improve the general conditions of the area. Some of the people consulted did not visualize any betterment in the supply system of the area. The majority of the community was complaining about the ill attitude of HESCO officials and heavy billing. They were wary of the project with respect the crop damage it could cause.

Expectations of Community about Project

The community expected the project to compensate any crop damage during the construction activities. They also wanted lower electricity tariff.

Names of Stakeholders Consulted

1. Mr. Bashir Ali Unar  
   Land owner/Local Influential
2. Mr. Noor Muhammad Unar  
   Teacher
3. Mr. Mir Muhammad Unar  
   Hotel Owner
4. Mr. Shaman Ali Unar  
   Work Shop Owner
5. Mr. Haji Ellahi Bux  
   Land Lord
6. Mr. Ghulam Rasool  
   Kiryana Merchant
7. Mr. Haji Nazeer  
   Imam of Mosque
8. Mr. Deedar Hussain  
   Un- Employed Youth
9. Mr. Muhammad Nawaz  
   Tailor Master
Appendix E

10. Mr. Haji Shahan
11. Mr. Wahid Bux
12. Mst. Mai Shareefan
13. Mst. Gul Naz
14. Mst. Nooran
15. Mst. Allah Dinni
16. Mst. Ashraf

10. Mr. Haji Shahan
11. Mr. Wahid Bux
12. Mst. Mai Shareefan
13. Mst. Gul Naz
14. Mst. Nooran
15. Mst. Allah Dinni
16. Mst. Ashraf

Land Lord
Farmer
House Wife / Crop Worker
House Wife / Crop Worker
House Wife / Crop Worker
House Wife
Mid Wife of Village.

PC No: 9
Date: March 10, 2007
District: Jacobabad
Location: A commercial area along the transmission line route.
Name of Village/Locality: Bhittai Town - Shikarpur Road, Jacobabad.
No of Houses: 250
Population of Area (Approx): 2,000
Major Castes/Communities: Mir Bahar, Soomro, Abbassi, Abro, Dayo and Hindu.
Stakeholders Consulted: Local residents and shopkeepers (project beneficiaries and affectees).
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Salty
Water Drinkable: No
Water Table: 30-40 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Local Canal
Water Supply Facility: Developed
Sewerage Facility: Developed
Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Voltage fluctuations, low voltage, long and frequent power outages.
Roads: Metalled
Attitude of Community Members (In General): Aggressive.
Attitude of Community Members (For Project): The community was found to be against the proposed transmission line to pass over their houses.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: NA (The Civil Hospital and several other health-care facilities exist in the city).
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Trade, business and services.
Major Crops: NA
Major Professions: Business, service providers and Govt servants.
Industries of Area: Rice mills, flour mills, oil mills, etc.
Economic condition of Community in Project Area: Middle and lower middle class.
Major diseases: Skin diseases, malaria and hepatitis.
Social problems: Poor sanitation, congestion, unemployment.

Views and Apprehensions of Community about Project
The community members aggressively opposed the transmission line crossing over their houses and shops. They were of the opinion that their shops and houses were there at the site prior to the construction of the existing transmission line. They expressed their concern and showed reservation on the route of the transmission line. They demanded change in the design of crossing of transmission line.

Expectations of Community about Project
Community members were of the opinion that HESCO should consider their request on humanitarian grounds and should change the design of the transmission line to accommodate their demand.

Names of Stakeholders Consulted
1. Mr. Bashir Ahmed Dayo Shop Keeper
2. Mr. Malook Korar Shop Keeper
3. Mr. Hidayat Ullah Mirbahar Shop Keeper
4. Mr. Mehar Ullah Mirbahar Shop Keeper
5. Mr. Aziz Ullah Shop Keeper
6. Mr. Abdul Majeeed Shop Keeper
7. Mr. Asif Ahmed Soomro Shop Keeper
8. Mr. Shahid Abbassi Shop Keeper
9. Mr. Arjun Das Shop Keeper
10. Mr. Achar Mal Shop Keeper
11. Mr. Bakht Ali Shop Keeper
12. Mr. Ghulam Rasool Abro Shop Keeper
13. Mr. Ustad Bashir House Owner.

PC No: 10
Date: March 10, 2007
District: Jacobabad
Location: A community along the transmission line route near the Jacobabad grid station.
Name of Village/Locality: Shahbazpur Mohalla.
No of Houses: 300
Population of Area (Approx): 3,200
Major Castes/Communities: Syed, Mugheri, Solangi, Rind, Soomro, Khoso, Machi, Dayo, Kurhar and Domki.

Stakeholders Consulted: Residents of the area (project beneficiaries and affectees).

Any Dispute on the Project Land: None.

Piped water Availability: Yes

Groundwater Quality: Salty

Water Drinkable: No

Water Table: 30-40 Ft

Irrigation Water Availability: NA

Irrigation Water Source: NA

Water Supply Facility: Developed

Sewerage Facility: Semi Developed

Natural Gas Availability: Yes

Electricity Availability: Yes

Electricity Problems: Frequent shutdowns, excessive billing.

Roads: Metalled

School: Yes

School Building: Yes

Electricity in School: Yes

Basic Health Unit: Several health-care facilities, including the Civil Hospital, exist in the city.

Rural Health Center: NA

Private Practitioners: Yes

Alternative Medicine Facility: Yes

Major Economic Activity in Area: Trade, small business, employment.

Major Crops: NA

Major Professions: Business, Service providers and Govt servants.

Industries of Area: Rice mills, flour mills and oil mills.

Economic condition of Community in Project Area: Poor

Major diseases: Malaria, TB, hepatitis and typhoid.

Social problems: Poor sanitation, congested area, unemployment.

Views and Apprehensions of Community about Project

Community members were generally not opposing the project but they had strong reservations on the crossing of the transmission line over their house and shops. They demanded to change the transmission line route.

Expectations of Community about Project

The community expected HESCO to reconsider the transmission line alignment, as described above.
Appendix E

HESCO 6th STG Project (2006-07)
ESA Report

Names of Stakeholders Consulted

1. Mr. Syed Abdul Raheem Shah  Local Influential
2. Mr. Abdullah Fakeer Mugheri  Resident
3. Mr. Laskkari Solangi  Resident
4. Mr. Mirchoo Khan Bhund  Resident
5. Mr. Abdul Khalique Soomro  Resident
6. Mr. Abdul Majeed Khoso  Resident
7. Mr. Muhammad Sallah Soomro  Resident
8. Mr. Muntaz Ali Khoso  Resident
9. Mr. Taufeeq Ahmed Khoso  Resident
10. Mr. Muhammad Hayat Khoso  Resident
11. Mr. Khuda Bux Machi  Resident
12. Mr. Bangull Dayo  Resident
13. Mr. Dur Muhammad Kurhar  Resident
14. Mr. Fakir Muhammad Domki  Resident
15. Mr. Gul Muhammad Domki  Shop Keeper
16. Mr. Ayub Machi  Shop Keeper
17. Mr. Shah Murad Domki  Shop Keeper.

PC No: 11

Date: March 10, 2007
District: Shikarpur
Location: Local public place.
Name of Village/Locality: Tharopur Mohalla, Shikarpur Bypass area.
No of Houses: 800
Population of Area (Approx): 4500
Major Castes/Communities: Sanjrani, Samejo, Shaikh and Burirro.
Stakeholders Consulted: Local residents (general public).
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 30-35 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Local Canal
Water Supply Facility: Semi Developed
Sewerage Facility: Semi Developed
Natural Gas Availability: Yes
Electricity Availability: Yes
Electricity Problems: Voltage fluctuations, frequent power shutdowns, excessive billing.
Roads: Metalled and Semi Metalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community supports the project.

School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: NA. Several health-care facilities, including the Civil Hospital, exist in the city.
Rural Health Center: NA
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and related business activities.
Major Crops: Wheat, rice and vegetables.
Major Professions: Business, Service providers and Govt servants.
Industries of Area: Textile mill, oil mill, rice mills, flour mills and pickle factories.
Economic Condition of Community in Project Area: Poor
Major diseases: Malaria.
Agricultural Problems: Water logging and salinity.
Social Problems: Congested residential area, robberies, thefts and unemployment.

Views and Apprehensions of Community about Project
The people consulted generally appreciated the project. They perceived the project to have a positive impact on the agriculture and industry of the area, thus contributing to the well being and uplift of the local population. They did not have any apprehension or concern about the project.

Expectations of Community about Project
The community expected the project to provide employment opportunities as well as increased business activities.

Names of Stakeholders Consulted
1. Mr. Hidayat Ullah Sanjrani Local Resident
2. Mr. Allah Jivayo Samejo Shop Keeper
3. Mr. Riaz Ahmed Sanjrani Hotel Owner
4. Mr. Mehboob Ali Shaikh Rice Mill Owner
5. Mr. Abdul Qadir Buriro Auto Dealer
6. Mr. Qurban Ali Samejo Hotel Worker
7. Mr. Lalan Ali Sanjrani Hotel Worker
8. Mr. Imdad Ali Abro Teacher
9. Mr. Inayat Soomro Rice Mill Worker
10. Mr. Wahdat Ali Farmer.

PC 12
Date: 6/16/2007
District: Jacobabad
Appendix E

HESCO 6th STG Project (2006-07)
ESA Report

Location: Transmission Line Crossing Area
Name of Village/Locality: Village Abad
No of Houses: 300
Population of Area (Approx): 1800
Major Caste/Community: Unar Community
Stakeholders Consulted: Local Residents and Influentials of Area
Any Dispute on the Project Land: No disputes were reported.
Water Availability: Yes
Quality of Water: Salish
Water Drinkable: No
Water Table: 30-40 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Water Courses
Sanitation Facility: Not Developed
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Excessive billing, frequent shutdowns
Roads: Semi Metalled
Attitude of Community Members (In General): Cooperative
Attitude of Community Members (For Project): Community Supported the project
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and related business activities
Major Crops: Wheat and rice
Major Professions: Farming, government and private jobs
Industries of Area: None.
Poverty Level of Community in Project Area: Poor
Major diseases: Malaria, TB, hepatitis, typhoid
Agriculture: Water logging
Social: Poor law and order.

**Views and Apprehension of Community about Project**
The community appreciated HESCO initiative and opined that the project would address the key problems of the area. They did not have any apprehension about the project.

**Expectations of Community about the Project**
The community expected the project to generate economic opportunities for the area.

**Names of Stakeholders Consulted**
1. Mst. Jam Zadi Unar
2. Mst. Zeenat Unar
3. Mst. Sakeena Unar
4. Mst. Shahida Unar
5. Mst. Mai Shareefan
6. Mst. Allah Dini
7. Mst. Shahul
8. Mst. Sabhaghi
9. Mst. Ranni

**E.1.3 Larkana Grid Station and its Feed**

**PC No:** 1
**Date:** March 11, 2007
**District:** Larkana
**Location:** Transmission line route.
**Name of Village/Locality:** Village Dilli Jan Kakhrani
**No of Houses:** 25
**Population of Area (Approx):** 300
**Major Castes/Communities:** Kakhrani Community.
**Stakeholders Consulted:** Local residents (project affectees and beneficiaries).
**Any Dispute on the Project Land:** None reported.
**Water Availability:** Yes
**Quality of Water:** Sweet
**Water Drinkable:** Yes
Water Table: 80-90 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Rice Canal.
Water Supply Facility: Not Developed. Community uses hand pumps to obtain water for their domestic needs.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Voltage fluctuations, low voltage, frequent power outages.
Roads: Metalled and un-metalled.
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): Community supported the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Farming and brick kilns.
Major Crops: Wheat, rice, coriander, vegetables and oil seeds and others.
Major Professions: Farming
Industries of Area: None
Economic Condition of Community in Project Area: Poor
Major Diseases/Health Problems: Malaria, high mother mortality.
Social Problems: Illiteracy, unemployment, poor law and order, honor killing (karo kan).

Views and Apprehensions of Community about Project
Most of the respondents were in favor of the project, and perceived it to be in the interest of the area. They welcomed the project since it would go a long way in improving the quality of electricity supply for their communities. Their apprehensions included the possible damage to the crops caused by the project activities. They cited an example of non-payment of the compensation during an earlier electricity project.

Expectations of Community about Project
The community members expected the project to provide them employment opportunities. Furthermore, they expected the project to minimize any crop damage, and to compensate them fully and promptly in case of any damage.

Names of Stakeholders Consulted
1. Mr. Ghulam Murtaza Kakhrani Local Influential/Farmer
2. Mr. Munawar Ali Kakhrani Farmer
3. Mr. Ayaz Ali Kakhrani Farmer
Appendix E

4. Mr. Abdul Majeed Kakhrani Shop Keeper
5. Mr. Muhammad Essa Donkey Cart Owner
6. Mr. Ali Dad Kakhrani Farmer
7. Mr. Wajid Ali Kakhrani Farmer
8. Mr. Ali Nawaz Kakhrani Farmer
9. Mr. Muhammad Soomar Farmer
10. Mr. Deedar Ali Kakhrani Farmer
11. Mr. Abid Ali Kakhrani Graduate Student
12. Mr. Dili Jan Kakhrani Graduate Student
13. Mr. Allah Dino Kakhrani Tractor Driver
14. Mr. Muhammad Essa Kerosene Trader of Village
15. Mr. Muhammad Bakir Kakhrani Kiryana Merchant
16. Mr. Allah Warrayo Kakhrani Member, Village Association.

PC No: 2
Date: March 11, 2007
District: Larkana
Location: Village near proposed site of grid station.
Name of Village/Locality: Village Haji Shadad Brohi.
No of Houses: 60
Population of Area (Approx): 500
Major Castes/Communities: Umrani and Brohi communities.
Stakeholders Consulted: Residents and influentials of the area (project affectees and beneficiaries).
Any Dispute on the Project Land: No disputes were reported.
Water Availability: Yes
Quality of Water: Salty
Water Drinkable: Ground water is not drinkable.
Water Table: 60-70 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Rice Canal
Water Supply Facility: Not developed. The community members use hand pumps to get drinking water.
Sewerage Facility: Not developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent power outages, voltage fluctuation, low voltage.
Roads: Un-Metalled
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): The community supported the project.
School: Yes Primary School is available
School Building: Yes  Building was available
Electricity in School: Available
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No.
Major Economic Activity in Area: Farming and embroidery.
Major Crops: Wheat, rice and maize.
Major Professions: Farming and Services
Industries of Area: There is no industry in the area.
Economic condition of Community in Project Area: The community belongs to the middle and lower middle class.
Major Diseases: Malaria.
Agriculture Problems: Water logging and shallow ground water.
Social Problems: Poor law and order, unemployment and illiteracy.

**Views and Apprehensions of Community about Project**

In general, the community was appreciative about the project, and welcomed the HESCO's plans to improve the electricity supply in the area. Establishment of the new grid station in the area was viewed by the community as a right step to alleviate their electricity-related problems. They did not share any apprehensions about the project.

**Expectations of Community about Project**

The community members participating in the consultation expected the project to compensate the landowner for the land acquired for the grid station. They also expected HESCO to take all precautionary safety measures to protect them from any electrocution hazard.

**Names of Stakeholders Consulted**

1. Mr. Ameer Bux Brohi Graduate-Shop Keeper
2. Mr. Ali Hassan Umran Ali Farmer/Local Influential
3. Mr. Muhammad Hanif Umran Ali Farmer
4. Mr. Asghar Ali Umran Ali Farmer
5. Mr. Ali Khan Umran Ali Imam of Mosque
6. Mr. Fakeer Muhammad Umran Ali Resident
7. Mr. Ayaz Ali Umran Ali Resident
8. Mst. Noor Khatoon House Wife/Ladies Tailor
9. Mst. Zuhra Khatoon House Wife
10. Mst. Sahib Khatoon House Wife

PC No: 3

Date: March 11, 2007

District: Larkana
Location: Transmission line route.
Name of Village/Locality: Village Haji Ghulam Hussain Malangani.
No of Houses: 20
Population of Area (Approx): 300
Major Castes/Communities: Malangani Community.
Stakeholders Consulted: Local residents (project affectees and beneficiaries).
Any Dispute on the Project Land: No disputes were reported during the consultations.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 60-70 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Rice Canal
Water Supply Facility: Not developed. The community uses hand pumps to obtain water for their domestic needs.
Sewerage Facility: Not developed.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent power outages, voltage fluctuation, low voltage.
Roads: Un-Metalled
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): Indifferent.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agricultural activities.
Major Crops: Wheat, rice and lentils.
Major Professions: Farming.
Industries of Area: There exist no industries in the area.
Economic Condition of Community in Project Area: Majority of the people in the area are poor.
Major Diseases: Malaria, TB, hepatitis and typhoid.
Agriculture Problems: Water logging.
Social Problems: Poor law and order conditions.
Views and Apprehensions of Community about Project

The community was in general indifferent about the project. Some of the participants were in fact against the project, since they perceived that the project would increase already high electricity bills.

Expectations of Community about Project

The community had no expectations from the project.

Names of Stakeholders Consulted

1. Mr. Imdad Hussain Malangani Farmer/Resident
2. Mr. Noor Ameen Malangani Farmer/Resident
3. Mr. Muhammad Arif Malangani Farmer/Resident
4. Mr. Ahmed Ali Malangani Shop Keeper
5. Mr. Nabi Bux Malangani Shop keeper
6. Mr. Shahmir Ali Malangani Local Influential.

PC No: 4
Date: March 11, 2007
District: Larkana
Location: Near grid station site.
Name of Village/Locality: Village Muhammad Brohi.
No of Houses: 45
Population of Area (Approx): 500
Major Castes/Communities: Brohi, Bughio, Otha and Jatoi.
Stakeholders Consulted: Residents and influential of the area (project affectees and beneficiaries).
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 55-60 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Rice Canal.
Water Supply Facility: Not developed. The community relies upon hand pumps to obtain water for their domestic needs.
Sewerage Facility: Not developed
Natural Gas Availability: No.
Electricity Availability: Yes
Electricity Problems: Long hours of load shedding and power outages.
Roads: Un-Metalled
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): The community supports the project.
School: Yes (Primary, Boys and Girls)
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: Yes
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and related small businesses.
Major Crops: Rice, wheat and vegetables.
Major Professions: Farming and services.
Industries of Area: No.
Economic Condition of Community in Project Area: The community belongs to the lower and lower-middle class.
Major Diseases: Diarrhea and malaria.
Agricultural Problems: None reported.
Social Problems: Poor law and order situation.

Views and Apprehensions of Community about Project

The community was in general supportive of the project, and appreciated HESCO’s initiative to improve the electricity supply in the area. Their apprehensions pertained to the land acquired by the project, and damage to the crops. Some of the participants complained about excessive electricity billing as well.

Expectations of Community about Project

The community expected that HESCO will take all necessary measures to minimize the crop damage during the project. They expected payment of compensation for any unavoidable crop damage.

Names of Stakeholders Consulted

1. Mr. Khuda Bux Brohi Donkey Cart Loader
2. Mr. Fakeer Mumtaz Brohi Farmer
3. Mr. Subz Ali Brohi Oil Trader
4. Mr. Haji Hadi Bux Brohi Local Influential
5. Mr. Allah Nawaz Brohi Farmer
6. Mr. Ahmed Nawaz Brohi Shop keeper
7. Mr. Ghulam Shabbir Brohi Farmer
8. Mr. Rab Nawaz Brohi Shepherd
9. Mr. Saddam Hussain Resident
10. Mst. Kaim Khatoon House Wife/Field Worker
11. Mst. Hayat Khatoon House Wife/Field Worker
12. Mst. Arbab Khatoon House Wife/Field Worker
E.1.4 Tando Allahyar – Chamber Transmission Line an Chamber Grid Station Site

PC No: 1
Date: March 12, 2007
District: Tando Allahyar
Location: Proposed transmission line route.
Name of Village/Locality: Pathan Colony, Tando Allahyar District.
No of Houses: 250
Population of Area (Approx): 3,000
Major Castes/Communities: Pathan, Kohli, Makrani, Marri and Khokhar.
Stakeholders Consulted: Local residents (mostly project affectees).
Any Dispute on the Project Land: None reported during the consultation.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 160-170 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Naseer Wah
Water Supply Facility: Developed but not maintained properly.
Sewerage Facility: Developed but not maintained properly.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Low voltage, frequent power outages and load shedding.
Roads: Metalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community welcomed the project.
School: No
School Building: No
Electricity in School: NA
Basic Health Unit: NA (There exist several health-care facilities in Tando Allahyar town).
Rural Health Center: No.
Private Practitioners: Yes
Alternative Medicine Facility: No
Major Economic Activity in Area: Farming, trade.
Major Crops: Rice, wheat, mangoes and vegetables.
Major Professions: Farmer, truck drivers, cart loaders and labourers.

Formerly part of Hyderabad District.
Industries of Area: Flour mills, ice factories, ice cream factories, sugar mills.
Economic Condition of Community in Project Area: Poor.
Major Diseases: Malaria, TB, hepatitis, diarrhea and cholera.
Agricultural Problems: None reported.
Social Problems: Congested city areas resulting in poor sanitation.

Views and Apprehensions of Community about Project
The participation of the consultation meeting generally appreciated the project, however they shared their concerns about the proposed alignment of the transmission line, which runs parallel to their shops (in the existing right of way, between the roads and the commercial area). They felt that the new transmission line so close to their shops would create safety hazards for them. They also shared their dissatisfaction about the current status of the electricity supply, and the excessive billing.

Expectations of Community about Project
The community expected that HESCO would reconsider the portion of the transmission line adjacent to their area. The community also demanded that in addition to the electricity project, other developmental activities should also be undertaken in the area.

Names of Stakeholders Consulted
1. Mr. Kareem Khan Sulaimankhel Resident/Truck Driver
2. Mr. Akram Khan Sulaimankhel Resident/Shop Keeper
3. Mr. Shahid Khan Sulaimankhel Resident/Tractor Driver
4. Mr. Ahmed Khan Sulaimankhel Influential of Area
5. Mr. Jamil Khan Sulaimankhel Shop Keeper-Welder
6. Mr. Shah Muhammad Tailor Master
7. Mr. Habib Ullah General Store
8. Mr. Amir Khan Sulaimankhel Resident
9. Mr. Lal Khan Resident
10. Mr. Ameer Jan Resident
11. Mr. Aslam Resident
12. Mr. Ashraf Resident.

PC No: 2
Date: March 12, 2007
District: Tando Allahyar
Location: Transmission line route
Name of Village/Locality: Village Bahadur Leghari, Chamber
No of Houses: 8
Population of Area (Approx): 70
Major Castes/Communities: Leghari, Otha and Kohli
Stakeholders Consulted: Residents (project beneficiaries and affectees).
Any Dispute on the Project Land: None reported during the consultation.
Water Availability: Yes
Quality of Water: Sweet
Appendix E

Water Drinkable: Yes
Water Table: 120 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Naseer Wah
Water Supply Facility: Not developed; the community uses hand pumps.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: No
Electricity Problems: NA.
Roads: Unpaved.

Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community welcomed the project.
School: No
School Building: No
Electricity in School: NA
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and related small businesses.
Major Crops: Wheat, sugarcane, cotton, vegetables and fruits.
Major Professions: Farming
Industries of Area: None.
Economic Condition of Community in Project Area: Poor.
Major Diseases: Malaria, ulcers and diarrhea.
Agricultural Problems: None reported.
Social Problems: Illiteracy.

Views and Apprehensions of Community about Project
The community welcomed the project, however they were unsure about getting the electricity supply after the completion of the project. They complained that in the past as well, their community was ignored and they still did not have electricity in the area. The community was not aware of any possible problem caused by the transmission lines or grid station.

Expectations of Community about Project
The community members expected HESCO to provide them electricity.

Names of Stakeholders Consulted
1. Mr. Noor Hussain Leghari Resident
2. Mst. Naseem Leghari House Wife
3. Mr. Saddam Leghari Resident
4. Mr. Asif Leghari
   Resident
5. Mr. Mir Hassan Leghari Naik Mard/Influential.

PC No: 3
Date: March 12, 2007
District: Tando Allahyar
Location: Transmission line route.
Name of Village/Locality: Fazal Stop, along Tando Allahyar – Chamber Road.
No of Houses: 60
Population of Area (Approx): 500
Major Castes/Communities: Kohli, Machi, Kachi and Lashari.
Stakeholders Consulted: Residents, shopkeepers and influentials (mostly project beneficiaries).
Any Dispute on the Project Land: None shared by the community consulted.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 90-100 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Naseer Wah
Water Supply Facility: Not developed. The community uses hand pumps.
Sewerage Facility: Not Developed.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Low voltage, frequent power outages, unscheduled load shedding.
Roads: Metalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The respondents appreciated the project.
School: No
School Building: No
Electricity in School: NA
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture, small businesses.
Major Crops: Wheat, sugarcane, vegetables and fruits.
Major Professions: Farming, transportation and services.
Industries of Area: None.
Economic Condition of Community in Project Area: Poor.
Major diseases: Diarrhea, malaria, mouth/throat ailments.
Agricultural Problems: None reported.
Social: Illiteracy, poor law and order situation.

Views and Apprehensions of Community about Project
The community generally appreciated the project, and hoped it would alleviate their sufferings caused by the poor electricity supply in their area. They also viewed the project as an initiative which would bring subsequent development in the area as well. The participants of the consultation meeting did not have any apprehension or misgiving about the project.

Expectations of Community about Project
The people consulted did not have any expectations directly from the project. However, they hoped that the project would cause enhanced business activity in the area.

Names of Stakeholders Consulted
1. Mr. Hamji Kohli Resident/Laborer
2. Mr. Rasool Muhammad Lashari Roadside Restaurant Owner
3. Mr. Seenghar Ali Lashari Roadside Restaurant Worker
4. Mr. Muhammad Moosa Solangi Local Influential
5. Mr. Ramji Kachi Driver
6. Mr. Haloo Kachi Farmer
7. Mr. Sawaq Kohli Farmer
8. Mr. Tanso Kohli Farm Worker
9. Mr. Azeem Ahmed Lashari Farm worker
10. Mr. Anis Ahmed Solangi Shopkeeper.

PC No: 4
Date: March 12, 2007
District: Tando Allahyar
Location: Transmission line route.
Name of Village/Locality: Village Taran Mori, Chamber.
No of Houses: 25
Population of Area (Approx): 240
Major Castes/Communities: Hindu and Kachi.
Stakeholders Consulted: Local residents, farmers (project beneficiaries and affectees).
Any Dispute on the Project Land: None reported during the consultation.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 65-70 Ft
Irrigation Water Availability: Yes
Appendix E

Irrigation Water Source: Naseer Wah.
Water Supply Facility: Not developed. The community uses hand pumps.
Sewerage Facility: Not Developed.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent and unscheduled load shedding, power outages, voltage fluctuation, long duration for HESCO to attend the electricity faults (due to lengthy feeders).
Roads: Metalled.
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community welcomed the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: No
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and related small business activities.
Major Crops: Wheat, rice, sugarcane, oil seeds, fruits, vegetables and others.
Major Professions: Farming, transportation and labourers.
Industries of Area: None.
Economic Condition of Community in Project Area: Poor.
Major Diseases: Diarrhea and Malaria.
Agricultural Problems: None reported.
Social Problems: Illiteracy, poor law and order conditions.

Views and Apprehensions of Community about Project

The community members participating in the consultation greatly appreciated the project. They viewed it as an important development activity in the area, and hoped that it would alleviate their problems associated with the poor electricity supply. The community members were concerned about the possible damage to their crops caused by the project activities.

Expectations of Community about Project

The community members expected that the project would improve the electricity supply conditions, as described above. The participants expected HESCO to compensate them for any damage caused by the project activities.

Names of Stakeholders Consulted

1. Mr. Mano Kachi Farmer
2. Mst. Miran House Wife/Field Worker
3. Mst. Lashmi House Wife/Field Worker
4. Mr. Washram Kachi  
5. Mr. Mithoo Kachi  
6. Mr. Meval Kachi  
7. Mr. Dheewann Kachi  
8. Mst. Zanju  
9. Mr. Wakeel

PC No: 5
Date: March 12, 2007
District: Tando Allahyar
Location: Transmission line route.
Name of Village/Locality: Village Muhammad Hussain Dal, Chamber.
No of Houses: 25
Population of Area (Approx): 150
Major Castes/Communities: Rind, Dal and Lanjwani.
Stakeholders Consulted: Residents of the area (project beneficiaries and affectees).
Any Dispute on the Project Land: None reported during the consultation.
Water Availability: Yes
Quality of Water: Salty
Water Drinkable: Yes
Water Table: 70-80 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Naseer Wah
Water Supply Facility: Not developed. The community uses hand pumps.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent power shutdowns and unscheduled load shedding.
Roads: Metalled + Semi- Metalled.
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community generally appreciated the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No.
Major Economic Activity in Area: Agriculture and related small businesses.
Major Crops: Wheat, rice and vegetables.
Major Professions: Farming, labour and trade.
Industries of Area: None.
Economic Condition of Community in Project Area: The community belonged to lower,
and lower middle income groups.
Major Diseases: Malaria, gastroenteritis and hepatitis.
Agricultural Problems: None reported.
Social Problems: Family clashes, poor law and order.
Views and Apprehensions of Community about Project
The community viewed the project positively, and conceived it to be beneficial to the
entire area. They expected this project to not only alleviate their electricity related
problems, but also to attract further development and economic activity in the area. Their
apprehensions were primarily related to the possibility of crop damage caused by the
construction activities.
Expectations of Community about Project
The community expected the project to provide them employment opportunities. Also,
they expected HESCO to compensate them for any damage caused by the project
activities.
Names of Stakeholders Consulted
1. Mr. Allah Dino Dal
2. Mr. Khuda Bux Dal
3. Mr. Shahmir Dal
4. Mr. Qurban Ali Dal
5. Mr. Shahbaz Dal
6. Mr. Jannat Bibi
7. Mst. Bachul
8. Mst. Sayani
PC No: 6
Date: March 12, 2007
District: Tando Allahyar
Location: Proposed transmission line route.
Name of Village/Locality: Village Magsi Farm, Chamber.
No of Houses: 2,300
Population of Area (Approx): 22,000
Major Castes/Communities: Rind, Jalbani, Notkani, Lashar, Aaressar, Hajana and
Rustamanni.
Stakeholders Consulted: UC Nazim, landowner, local residents and local influentials
(mostly project affectees).
Any Dispute on the Project Land: None reported.
Appendix E
HESCO 6th STG Project (2006-07)
ESA Report

Water Availability: Yes
Quality of Water: Sweet, Salty
Water Drinkable: Yes
Water Table: 60-70 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Naseer Wah
Sewerage Facility: Under construction.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Load shedding, power outages, voltage fluctuations, excessive billing.
Roads: Metalled + unmetalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community supported the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: Yes
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and related small business activities.
Major Crops: Wheat, rice, sugarcane and fruits.
Major Professions: Farming, labour and trade.
Industries of Area: Sugar Mills.
Economic Condition of Community in Project Area: The community generally belonged to the lower income group.
Major Diseases: Malaria, diarrhea, gastroenteritis, TB and hepatitis.
Agricultural Problems: Water logging.
Social Problems: Family clashes, poor law and order.

Views and Apprehensions of Community about Project
The participants welcomed the project and hoped it would not only address their electricity-related problems, but would also positively contribute in the overall uplift of the area. No apprehensions were shared by the participants during the consultation.

Expectations of Community about Project
The participants of the consultation meeting expected HESCO to incorporate all the necessary safety measures in the project design. They also urged HESCO to provide as...
many employment opportunities to the local population as possible during the project and afterward.

Names of Stakeholders Consulted

1. Mr. Allah Bux Magsi  
   Land Owner/Influential
2. Mr. Ali Nawaz Lashari  
   UC Nazim Chamber
3. Mr. Hashim Ali Memon  
   Land Owner
4. Mr. Ali Bachanni  
   Local Influential/Industrialist
5. Mr. Zaffar Abbass Lashari  
   Farmer
6. Mr. Saffar Ali  
   School Teacher
7. Mr. Allah Dad  
   Taxi Driver
8. Mr. Lal Buksh  
   Cattle Farmer
9. Mr. Innam Ullah  
   Milk Man
10. Mr. Allah Jurial  
    Farmer.

PC No: 7
Date: March 12, 2007
District: Tando Allahyar
Location: Transmission line route.
Name of Village/Locality: Village Abbas Bachani, Chamber.
No of Houses: 20
Population of Area (Approx): 250
Members per Family: 12
Major Castes/Communities: Kachi Community.
Stakeholders Consulted: Local Residents (project beneficiaries and affectees).
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 60 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Naseer Wah
Water Supply Facility: Not developed. The community uses hand pumps.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: No
Electricity Problems: NA
Roads: Unmetalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community supported the project.
School: No
School Building: No  
Electricity in School: NA  
Basic Health Unit: No  
Rural Health Center: No  
Private Practitioners: No  
Alternative Medicine Facility: No  
Major Economic Activity in Area: Agriculture and related small business activities.  
Major Crops: Wheat, rice, sugarcane and oil seeds.  
Major Professions: Cultivation and livestock rearing.  
Industries of Area: None reported.  
Economic condition of Community in Project Area: Poor.  
Major Diseases: Diarrhea, malaria, mouth and throat ailments.  
Agriculture Problems: None reported.  
Social Problems: Poor law and order conditions, illiteracy.  

**Views and Apprehensions of Community about Project**  
The participants generally welcomed the project. No apprehensions were shared by the participants during the consultation.  

**Expectations of Community about Project**  
The participants of the consultation meeting expected HESCO to provide them electricity connections.  

**Names of Stakeholders Consulted**  
1. Mr. Radho Kachi  
   Resident  
2. Mr. Kanno Kachi  
   Resident  
3. Mr. Haakkoo Kachi  
   Resident  
4. Mr. Sangaam Kachi  
   Farmer  
5. Mr. Daedho Kachi  
   Influential/Resident  
6. Mr. Nathnoo Kachi  
   Shepherd  
7. Mr. Manhoo Kachi  
   Farmer.  

**PC No:** 8  
**Date:** March 12, 2007  
**District:** Tando Allahyar  
**Location:** Transmission line route  
**Name of Village/Locality:** Village Chuttal Aressar-Chamber.  
**No of Houses:** 40  
**Population of Area (Approx):** 600  
**Members per Family:** 15  
**Major Castes/Communities:** Aressar, Kumbha, Sahito and Jiskani.  
**Stakeholders Consulted:** Local residents and influentials (project affectees and beneficiaries).
Any Dispute on the Project Land: None reported during the consultation.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 90-100 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Naseer Wah
Water Supply Facility: Not developed. The community uses hand pumps.
Sewerage Facility: Not Developed.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Frequent power failures, low voltage, long duration for HESCO staff to attend the electrical faults in the system.
Roads: Un-Metalled.
Attitude of Community Members (In General): Cooperative and supportive
Attitude of Community Members (For Project): The community was supportive of the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Cultivation and related small business activities.
Major Crops: Bannana, sugarcane, lady finger, wheat and red chillies.
Major Professions: Cultivation, cattle farming and labourers.
Industries of Area: No.
Economic Condition of Community in Project Area: Belonging to middle and lower income groups.
Major Diseases: Diarrhea, malaria, mouth and throat ailments.
Agricultural Problems: None reported.
Social Problems: Family Clashes, poor law and order, and illiteracy.
Views and Apprehensions of Community about Project
The community was quite enthusiastic about the project, since they linked it with the possibility of additional economic activity in the area as a result of improved electricity supply. They did not have any concerns or apprehensions about the project.
Expectations of Community about Project
The community expected the project to provide them employment opportunities.
Appendix E

Names of Stakeholders Consulted

1. Mr. Shafi Muhammad Jiskani Farmer/Resident
2. Mr. Ghulam Rasool Jiskani Local Influential
3. Mr. Muhammad Juman Sahito Shop Keeper
4. Mr. Muhammad Hassan Jiskani Hotel Worker
5. Mr. Muhammad Sadiq Aressar Shop Keeper
6. Mr. Yakoo Bhell Laborer
7. Mr. Roshan Ali Aressar Farmer
8. Mr. Irfan Ali Aressar Resident
9. Mr. Qurban Ali Jiskani Resident.

E.1.5 Matiari Grid Station Feed

PC No: 1
Date: March 13, 2007
District: Matiari*

Location: Proposed transmission line route.
Name of Village/Locality: Village Datto Bhatti, Matiari.
No of Houses: 10
Population of Area (Approx): 200
Major Castes/Communities: Kohli, Khaskhelli, Bachero, Majedanno and Junejo.
Stakeholders Consulted: Local residents (mostly project affectees).
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 50-60 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Canal water.
Water Supply Facility: Not developed. The community uses hand pumps.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Long and unscheduled load shedding.
Roads: Un-Metalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community welcomed the project.
School: Yes
School Building: Yes

* Formerly part of Hyderabad District.
Electricity in School: Yes
Basic Health Unit: Yes
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Cultivation, private employment.
Major Crops: Wheat, cotton, vegetables and onions.
Major Professions: Farming and labour.
Industries of Area: Sugar mills.
Economic Condition of Community in Project Area: Belonging to lower and middle income group.
Major Diseases: Malaria and diarrhea.
Agricultural Problem: None reported or observed.
Social Problems: Karo Kari (Honour Killings), and poor law and order.

Views and Apprehensions of Community about Project
Community members were of the opinion that this project will fetch new employment opportunities and increased agricultural output. The majority of the members were visualizing this project as a positive factor for the development of the area. This project would ensure the continuity of electricity supply enabling the local community to switch their irrigation system from costly diesel engines to economical electrical motors. No apprehensions were shared by the participants.

Expectations of Community about Project
The community expected the project to provide them employment opportunities. Also, the participants expected HESCO to compensate them for any loss to their crops during the project activities.

Names of Stakeholders Consulted
1. Mr. Pahelwan Majedano Farmer
2. Mr. Haji Bhatti Naik Mard (notable)
3. Mr. Phull Bacherro Cattle Farmer
4. Mr. Daim Bhatti Tube Well Operator
5. Mr. Mumtaz Ali Majeedano Shepherd
6. Mr. Pir Bux Khaskhelli Farmer
8. Mst. Ghouri Majedano House Wife/Farm Worker
9. Mst. Jamo Zaddi House Wife/Farm Worker
10. Mst. Bahn House Wife/Farm Worker
11. Mst. Sat Bai House Wife/Farm Worker.

E.1.6 Kandiari Grid Station Feed
PC No: 1
Date: March 13, 2007
District: Sanghar
Location: Near Kandiari grid station.
Name of Village/Locality: Kandiari Stop, Kandiari.
No of Houses: 250
Population of Area (Approx): 3,000
Major Castes/Communities: Hindus, Brohi, Solangi, Shaikh, Jamli, Thaheem and Magsi.
Stakeholders Consulted: Local residents (general public, some project beneficiaries).
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 100 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Jamrao Canal.
Sewerage Facility: Developed but not maintained properly.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: None reported during the consultation.
Roads: Semi Metalled/Metalled.
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): Generally supportive.
School: yes
School Building: yes
Electricity in School: yes
Basic Health Unit: No
Rural Health Center: Yes
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and associated business activities.
Major Crops: Wheat, rice, sugarcane, vegetables and fruits.
Major Professions: Farming and labour.
Industries of Area: None.
Poverty Level of Community in Project Area: Most of the people consulted belonged to lower and lower-middle income groups.
Major Diseases: TB, malaria, hepatitis and diarrhea.
Agricultural Problems: Water logging and salinity.
Social Problems: Illiteracy and poor law and order.
Views and Apprehensions of Community about Project

The participants viewed the project as a much needed development activity in the area. They opined that after the successful completion of the project, there would be proper water supply and sewerage systems which were currently non-functional due to unstable and unreliable electricity supply system. The participants also shared that for mangos, being the key produce in the area, cold storages were badly needed in the area. They hoped that the improved electricity network in the area would encourage the investors to establish cold storages.

The participants did not share any apprehension or misgiving about the project.

Expectations of Community from Project

The participants expected the project to create employment opportunities for the local population.

Names of Stakeholders Consulted

1. Mr. Muhammad Bachal Solangi  Land Lord
2. Mr. Fakeer Muhammad  Farmer
3. Mr. Muhammad Ashraf Manjhoot  Laborer
4. Mr. Noor Muhammad  Laborer
5. Mr. Ramzan Thaheem  Bus Starter
6. Mr. Mir Muhammad Rahmoon  Restaurant Worker
7. Mr. Ahmed Ali Rahmoon  Restaurant Worker
8. Mr. Muhammad Yameen Rahmoon  Restaurant Worker.

PC No: 2
Date: March 13, 2007
District: Sanghar
Location: Transmission line route.
Name of Village/ Locality: Village Manzoor Wassan.
No of Houses: 250
Population of Area (Approx): 1,200
Major Castes/ Communities: Menghwar, Bhell, Brohi and Sher.
Stakeholders Consulted: Residents of the village (project beneficiaries and affectees).
Any Dispute on the Project Land: None reported.
Water Availability: yes
Quality of Water: Sweet + Salty
Water Drinkable: yes
Water Table: 20-30 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Jamrao Canal
Water Supply Facility: Not developed. The community uses hand pumps.
Sewerage Facility: Not Developed
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Unscheduled and long load shedding, voltage fluctuations, frequent power outages particularly during summers.

Roads: Un-Metalled.

Attitude of Community Members (In General): Cooperative and supportive.

Attitude of Community Members (For Project): The community had a mixed response to the project.

School: No

School Building: NA

Electricity in School: NA

Basic Health Unit: No

Rural Health Center: No

Private Practitioners: No

Alternative Medicine Facility: No

Major Economic Activity in Area: Agriculture and associated small business activities.

Major Crops: Wheat, cotton, sugarcane, banana and mango.

Major Professions: Farming, labour and trading.

Industries of Area: None reported.

Economic Condition of Community in Project Area: Belonging to lower and lower-middle income groups.

Major Diseases: Malaria, gastroenteritis and hepatitis.

Agricultural Problems: None reported.

Social Problems: Illiteracy.

Views and Apprehensions of Community about Project

In general, the participants welcomed the project however some of them were not too sure about its direct benefits. They informed that the local community was poor and mainly comprising of minorities. They relied on canal irrigation system so they did not expect much from this project.

Expectations of Community about Project

The participants expected the project to pay compensation in case of any crop damage.

Names of Stakeholders Consulted

1. Mr. Imam Bux Rind Land Lord
2. Mr. Misri Khan Kaloi Land Lord/Land Owner
3. Mr. Achelo Menghwar Farmer
4. Mr. Muhammad Yousuf Brohi Farmer
5. Mr. Saif Ullah Jiskani An NGO worker.

E.1.7 Tando Bago Grid Station its Feed

PC No: 1

Date: March 14, 2007

District: Badin
Location: Near the proposed grid station site.
Name of Village/Locality: Village Wahid Dino Mallah, Tando Bago.
No of Houses: 200
Population of Area (Approx): 1,400
Major Castes/Communities: Mallah community.
Stakeholders Consulted: Local residents (mostly project beneficiaries).
Any Dispute on the Project Land: None reported during the consultation.
Water Availability: Yes
Quality of Water: Salty.
Water Drinkable: Yes
Water Table: 40-50 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Bagho Wah
Water Supply Facility: The community uses hand pumps.
Sewerage Facility: Not Developed
Natural Gas Availability: Gas supply line is under construction.
Electricity Availability: No
Electricity Problems: NA
Roads: Un-Metalled
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community welcomed the project.
School: Yes
School Building: Yes
Electricity in School: NA
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Cultivation.
Major Crops: Sugarcane, wheat, rice and vegetable.
Major Professions: Cultivation, cattle farming and fishing.
Industries of Area: None.
Economic Condition of Community in Project Area: Poor.
Major Diseases: Cholera, Malaria and gastroenteritis.
Agricultural Problems: Water logging and salinity.
Social Problems: Illiteracy, and poor law and order conditions.
Appendix E

Views and Apprehensions of Community about Project

The community members welcomed the project however they stressed the need of other developmental activities in their community.

Expectations of Community about Project

The participants expected that the project would create employment opportunities for the local population.

Names of Stakeholders Consulted

1. Mr. Muhammad Suleiman Mallah  Local Influential
2. Mr. Yar Muhammad Mallah  Farmer/Resident
3. Mr. Muhammad Umer Mallah  Farmer/Resident
4. Mr. Abdul Rasheed Mallah  Farmer/Resident
5. Mr. Shamoon Mirbahar  Fisher Man
6. Mr. Allah Dino Mirbahar  Fisher Man
7. Mr. Dildar Mirbahar  Farmer
8. Mr. Ghulam Hussain Mallah  Cattle Farmer
9. Mr. Photo  Fish Pond Owner
10. Mr. Gul Muhammad Mirbahar  Tailor Master
11. Mr. Sillo  Worker Tomatoes Field

PC No: 2

Date: March 14, 2007

District: Badin

Location: Transmission line route.

Name of Village/Locality: Village Lajh Bhariyyo, Tando Bago.

No of Houses: 60

Population of Area (Approx): 500

Major Castes/Communities: Halepoto, Menghwar and Kohli.

Stakeholders Consulted: Local villagers.

Any Dispute on the Project Land: None reported.

Water Availability: Yes

Quality of Water: Salty

Water Drinkable: Yes

Water Table: 20-25 Ft

Irrigation Water Availability: Yes

Irrigation Water Source: Bagho Wah

Water Supply Facility: The community relies upon hand pumps.

Sewerage Facility: Not Developed.

Natural Gas Availability: No

Electricity Availability: Yes

Electricity Problems: Extended load shedding, frequent power outages, low voltage.
Roads: Un-Metalled.

Attitude of Community Members (In General): Cooperative and supportive.

Attitude of Community Members (For Project): The community was indifferent about the project.

School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No

Major Economic Activity in Area: Agriculture and associated small business activities.

Major Crops: Sugarcane, rice and vegetables.

Major Professions: Farming and Labour

Industries of Area: Sugar mills.

Economic Condition of Community in Project Area: Poor.

Major Diseases: Gastroenteritis, malaria and water-borne diseases.

Agricultural Problems: water logging.

Social Problems: Illiteracy, unemployment.

**Views and Apprehensions of Community about Project**

Community members consulted had little hope of this project to be beneficial for them, though they understood that the project would improve the electricity supply situation in the area. They were also wary about the possibility of crop damage during the project activities.

**Expectations of Community about Project**

The participants expected the project to compensate them for any crop damage.

**Names of Stakeholders Consulted**

1. Mr. Rasool Bux Halepoto Land Lord
2. Mr. Khem Chand Kohli Farmer
3. Mr. Gajjan Kohli Farmer
4. Mr. Partap Kohli Laborer
5. Mr. Chander Kohli Laborer
6. Mr. Noor Hassan Halepoto Land Owner.

**PC No: 3**

Date: March 14, 2007
District: Hyderabad
Location: Important place of community meetings.

Name of Village/Locality: Village Pattar, Tando Mohammad Khan.
No of Houses: 50
Population of Area (Approx): 1,200
Major Castes/Communities: Qureshi and Rajput.
Stakeholders Consulted: Local residents (general public).
Any Dispute on the Project Land: NA.
Water Availability: Yes
Quality of Water: Sweet, salty
Water Drinkable: Yes
Water Table: 30-40 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Local Channel.
Water Supply Facility: Developed.
Sewerage Facility: Developed.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Unscheduled load shedding, low voltage and excessive billing.
Roads: Metalled.
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): Appreciative of the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: Yes
Alternative Medicine Facility: Yes
Major Economic Activity in Area: Agriculture and related business activities, trading.
Major Crops: Sugarcane, rice, vegetables and sunflower.
Major Professions: Farming and labour.
Industries of Area: Sugar mills.
Economic Condition of Community in Project Area: The participants generally belonged to lower and low-middle income groups.
Major Diseases: Malaria and cholera.
Agricultural Problems: None reported.
Social Problems: Illiteracy and poor law/order conditions.

Views and Apprehensions of Community about Project
The participants of the consultation meeting generally appreciated the project. They had no apprehension or reservation about the project.
Expectations of Community about Project

The participants did not have any expectations from the project.

Names of Stakeholders Consulted

1. Mr. Farooque Ahmed Qureshi  Resident/Influential
2. Mr. Abdul Rehman Qureshi  Resident
3. Mr. Muhammad Akram Qureshi  Resident
4. Mr. Muhammad Akbar Qureshi  Resident
5. Mr. Muhammad Irfan Qureshi  Resident.

E.1.8 Samaro – Naukot Transmission Line

PC No: 1
Date: March 15, 2007
District: Umerkot
Location: Transmission line route near Samaro grid station.
Name of Village/Locality: Village Zahoor Muhammad Bhurgari.
No of Houses: 10
Population of Area (Approx): 60
Members per Family: 6
Major Castes/Communities: Kohli, Kumbhar, Menghwar and Oad.
Stakeholders Consulted: Local residents (mostly project affectees).
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 40-50 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Mithrao Canal.
Water Supply Facility: Not Developed. The community uses hand pumps.
Sewerage Facility: Not Developed.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Unscheduled load shedding and low voltage.
Roads: Un-Metalled.
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community supported the project.
School: No
School Building: NA
Electricity in School: NA
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and associated small business activities.
Major Crops: Onions, red chillies, wheat and cotton.
Major Professions: Farming and labour.
Industries of Area: Sugar mills.
Economic Condition of Community in Project Area: Very poor.
Major Diseases: Malaria, TB and hepatitis.
Agricultural Problems: None reported.
Social Problems: Illiteracy, poor law and order.

Views and Apprehensions of Community about Project
The community members generally viewed the project to be beneficial for the entire area, since it would generate economic activity, such as establishment of new industry. The participants of the consultation meetings were apprehensive about their crops being damaged by the project activities.

Expectations of Community about Project
The respondents expected the project to minimize the crop damage, and compensate them for any unavoidable damage.

Names of Stakeholders Consulted
1. Mst. Jeawani Kohli Farm Worker
2. Mst. Daevoo Kohli Farm Worker
3. Mst. Daim Kohli Farm Worker
4. Mst. Nanoo Farm Worker
5. Mst. Daemann Kohli Farm Worker
6. Mr. Karnoo Kohli Farmer

PC No: 2
Date: March 15, 2007
District: Mirpur Khas
Location: Transmission line route.
Name of Village/Locality: Village Nafees Nagar, Naukot.
No of Houses: 35
Population of Area (Approx): 500
Major Castes/Communities: Gurgheez, Gashkorri, Mathelo, Kohli, Bhan, Dars, Bheel, Menghwaar, Rajput and Chandio.
Stakeholders Consulted: Local residents.
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Salty and sweet.
Water Drinkable: Yes
Water Table: 40-45 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Fazal Shakh, Mithrao Canal.
Water Supply Facility: Not Developed. The community uses hand pumps.
Sewerage Facility: Not Developed.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Load shedding, frequent power outages.
Roads: Un-Metalled.
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community welcomed the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: Yes
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and associated small business activities.
Major Crops: Sugarcane, wheat, cotton and vegetables.
Major Professions: Farming and labour.
Industries of Area: None.
Economic Condition of Community in Project Area: The community belonged to lower and lower-middle income group.
Major Disease: Malaria and hepatitis.
Agricultural Problems: Water logging and salinity.
Social Problems: Illiteracy and unemployment.

Views and Apprehensions of Community about Project
The community appreciated the project, and viewed it in their benefit, since the increased electricity supply would help them to operate tube-wells to obtain irrigation water to supplement the canal water. Their apprehensions included the possibility of crop damage.

Expectations of Community about Project
The participants expected the project to compensate them in case of any crop damage. They also expected the project to provide them jobs.

Names of Stakeholders Consulted
1. Mr. Abdul Aziz Govt. Servant/Resident
2. Mr. Mian Bux Gurgheez Shop Keeper
3. Mr. Ghulam Nabi Chandio Shop Keeper
4. Mr. Naseer Ahmed Rajput Motor Cycle Taxi Driver
5. Mr. Fakeer Bar Hamd Billalani Resident
6. Mr. Haji Ghulam Resident.

PC No: 3
Date: March 15, 2007
District: Umerkot/Mirpur Khas
Location: Transmission line route.
Name of Village/Locality: Village Mureed Khan Khaskhelli – Samaro.
No of Houses: 50
Population of Area (Approx): 450
Members per Family: 9
Major Castes/Communities: Bhatti, Sawand, Khaskhelli, Bhurgari, Kumbhar, Solangi and Menghwar.
Stakeholders Consulted: Local villagers (mostly project affectees).
Any Dispute on the Project Land: None reported.
Water Availability: Yes
Quality of Water: Sweet
Water Drinkable: Yes
Water Table: 50 Ft
Irrigation Water Availability: Yes
Irrigation Water Source: Mithrao Canal.
Water Supply Facility: Not Developed. The community uses hand pumps.
Sewerage Facility: Not Developed.
Natural Gas Availability: No
Electricity Availability: Yes
Electricity Problems: Unscheduled load shedding and low voltage.
Roads: Metalled + Semi – Metalled.
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community was indifferent about the project.
School: Yes
School Building: Yes
Electricity in School: Yes
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and associated small business activities.
Major Crops: Wheat, sugarcane, onions and Mangos.
Major Professions: Farming and labour.
Industries of Area: None.
Economic Condition of Community in Project Area: Poor.
Major Disease: Malaria, gastroenteritis and hepatitis.
Agricultural Problems: None reported.
Social Problems: Poor law and order situation, lack of educational and health facilities.

**Views and Apprehensions of Community about Project**
The community members showed no interest in the project, though they agreed that the project would be beneficial for the entire area. They were concerned about the risk of electrocution associated with the high tension transmission line such as the proposed one.

**Expectations of Community about Project**
The community expected the project to include all safety measures to protect them and their livestock against electrocution risk.

**Names of Stakeholders Consulted**
1. Mr. Bekho Menghwar Farmer/Local resident
2. Mr. Ashok Farmer/Resident
3. Mr. Aliho Farmer/Resident
4. Mr. Kewal Farmer/Resident
5. Mr. Qurban Ali Bhatti Farmer/Resident.

**PC No:** 4
**Date:** March 15, 2007
**District:** Mirpur Khas
**Location:** Transmission line route.
**Name of Village/Locality:** Village Lollan Morri.
**No of Houses:** 35
**Population of Area (Approx):** 500
**Major Castes/Communities:** Kapri, Bhatti, Kohli, Khaskheli and Bhurgari.
**Stakeholders Consulted:** Local residents and influentials (project affectees as well as beneficiaries).
**Any Dispute on the Project Land:** None reported.
**Water Availability:** Yes
**Quality of Water:** Sweet
**Water Drinkable:** Yes
**Water Table:** 30-40 Ft
**Irrigation Water Availability:** Yes
Appendix E

Irrigation Water Source: Mithrao Canal.
Water Supply Facility: Not Developed. The community relies upon hand pumps.
Sewerage Facility: Not Developed.
Natural Gas Availability: No
Electricity Availability: No
Electricity Problems: NA.
Roads: Metalled + Semi – Metalled.
Attitude of Community Members (In General): Cooperative and supportive.
Attitude of Community Members (For Project): The community welcomed the project.
School: No
School Building: NA
Electricity in School: NA
Basic Health Unit: No
Rural Health Center: No
Private Practitioners: No
Alternative Medicine Facility: No
Major Economic Activity in Area: Agriculture and associated small business activities.
Major Crops: Sunflower, sugarcane, onions, tomatoes and cotton.
Major Professions: Farming and labour.
Industries of Area: None reported.
Economic Conditions of Community in Project Area: Poor.
Major Diseases: Malaria, TB and hepatitis.
Agricultural Problems: Water logging.
Social Problems: Illiteracy, lack of educational and health-care infrastructure.

Views and Apprehensions of Community about Project

The community was generally appreciative of the project, however it was of the view that it would not directly benefit them. The participants did not have many apprehensions about the project, except for mild concerns associated with crop damage during the construction activities.

Expectations of Community about Project

The participants did not share any expectation from the project.

Names of Stakeholders Consulted

1. Mr. Hakeem Bhuttrani Local Influential
2. Mr. Ali Khan Kapri Farmer
3. Mr. Allah Bachayo Khaskheli Farmer
4. Mr. Arbato Kohli Farmer
5. Mr. Hazoor Bux Kapri Farmer
6. Mr. Muhammad Ishaq Bhuttrani Shop Keeper
7. Mr. Wali Muhammad Kapri Land Lord
8. Mr. Gul Muhammad Bhuttrani  

**PC No: 5**
Date: March 15, 2007  
District: Umerkot  
Location: Transmission line route.  
Name of Village/Locality: Village Padhrio Farms.  
No of Houses: 200  
Population of Area (Approx): 800  
Major Castes/Communities: Khaskelli, Miyana, Kohli and Bheil.  
Stakeholders Consulted: Local residents and influentials (project affectees as well as beneficiaries).  
Any Dispute on the Project Land: None reported.  
Water Availability: Yes  
Quality of Water: Sweet, brackish.  
Water Drinkable: Yes  
Water Table: 30-35 Ft  
Irrigation Water Availability: Yes  
Irrigation Water Source: Mithrao Canal.  
Water Supply Facility: Not developed. The community uses hand pumps.  
Sewerage Facility: Not developed.  
Natural Gas Availability: No  
Electricity Availability: Yes  
Electricity Problems: Load shedding, power outages, voltage fluctuation.  
Roads: Metalled.  
Attitude of Community Members (In General): Cooperative and supportive.  
Attitude of Community Members (For Project): The community welcomed the project.  
School: Yes  
School Building: Yes  
Electricity in School: Yes  
Basic Health Unit: Yes  
Rural Health Center: No  
Private Practitioners: No  
Alternative Medicine Facility: No  
Major Economic Activity in Area: Agriculture and associated small business activities.  
Major Crops: Wheat, red chillies, cotton, mangos and other fruits.  
Major Professions: Farming and labour.  
Industries of Area: None.
Economic Condition of Community in Project Area: Poor.

Major Diseases: Malaria and TB.

Agricultural Problems: None reported.

Social Problems: Lack of basic amenities, illiteracy, unemployment.

Views and Apprehensions of Community about Project

The main problem the local community was facing was of the low voltage and unscheduled power break downs for long hours. The community appreciated that this problem would be eliminated or at least minimized once this project became operational. Beside this, the participants shared that the area produced substantial quantities of fruits, but there were no storage facilities, thus causing considerable loss to the growers. They hoped that after the completion of the project, this problem would also be solved.

Expectations of Community about Project

The community expected job opportunities generated by the project. They also expected HESCO to compensate them for any damage to their assets during the project activities.

Names of Stakeholders Consulted

1. Mr. Gul Muhammad Khoso  
   Land Lord
2. Mr. Sohail Ahmed Khaskhelli  
   Farmer
3. Mr. Rohalla Khaskhelli  
   Farmer
4. Mr. Maqbool Khaskhelli  
   Farmer
5. Mr. Jawaid Khaskhelli  
   Farmer
6. Mr. Ramazan Khaskhelli  
   Motor Cycle Mechanic
7. Mr. Shah Nawaz Khaskhelli  
   Shop Keeper
8. Mr. Ali Gul Khaskhelli  
   Shop Keeper
9. Mr. Iftikhar Ali Khaskhelli  
   Resident.
Exhibit E.1: Checklist used for Grass-root Stakeholder Consultations

Project Component:
PC No:
Date:
District:
Location:
Name of Village/Locality:
No of Houses:
Population of Area (Approx):
Members per Family:
Major Casts/Communities:
Stake Holders Consulted:
Any Dispute on the Project Land:
Water Availability:
Quality of Water:
Water Drinkable:
Water Table:
Irrigation Water Availability:
Irrigation Water Source:
Water Supply Facility:
Sewerage Facility:
Natural Gas Availability:
Electricity Availability:
Electricity Problems:
Roads:
Attitude of Community Members (In General):
Attitude of Community Members (For Project):
School:
School Building:
Electricity in School:
Basic Health Unit:
Rural Health Center:
Private Practitioners:
Alternative Medicine Facility:
Major Economic Activity in Area:
Major Crops:
Major Professions:
Industries of Area:
Economic condition of Community in Project Area:
Major diseases:
Agricultural problems:
Social problems:

Views and Apprehension of Community about Project

Expectations of Community about Project

Names of Stakeholders Consulted
### E.2 Crop Damage and Compensation Details

#### Summary of Crop Compensation

<table>
<thead>
<tr>
<th>Description</th>
<th>Crop Damage Area (Acres)</th>
<th>Crop Compensation (Pak Rs.)</th>
<th>Compensation for Tree Removal (Pak Rs.)</th>
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<tbody>
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<td>Humayun - Jacobabad</td>
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<td><strong>Grand Total</strong></td>
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#### Humayun – Jacobabad Transmission Line

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<th>Towers</th>
<th>Landowners</th>
<th>Crop Damage Area (Acres)</th>
<th>Crop Compensation (Pak Rs.)</th>
<th>Notes</th>
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<tbody>
<tr>
<td>1</td>
<td>Mir Hassan S/O Allah Rakhio Sudhayo,</td>
<td>2.08</td>
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<td>Just outside Humayun Grid Station.</td>
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<td>Mian Abdul Baqi Miano</td>
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<td>Masoo Khan S/O Mir Muhammad Sudhayo</td>
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<td>Ghaus Bux Soomro</td>
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<td>Haji Hyder Khan S/O Dur Muhammad Sudhayo</td>
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</table>

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4 Basis: Transmission line corridor for crop compensation: 30 m; crop compensation for two wheat seasons, at the rate of Rs. 4,400 per acre per season. Landowner data provided by HESCO.
<table>
<thead>
<tr>
<th>Towers</th>
<th>Landowners</th>
<th>Crop Damage Area (Acres)</th>
<th>Crop Compensation (Pak Rs.)</th>
<th>Notes</th>
</tr>
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<td>Muhammad Siddique S/O Jaffer Khan Sudhayo</td>
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<td>Muhammad Akram S/O Dad Muhammad Sudhayo</td>
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<td>Faiz Muhammad S/O Atta Muhammad Sudhayo</td>
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<td>Saleuddin S/O Atta Muhammad Sudhayo</td>
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<td>Towers</td>
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**Total:** 127.39 acres, 1,120,989 Pak Rs.

### Feed for Chamber Grid Station

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* Basis: Transmission line corridor for crop compensation: 30 m; crop compensation for two wheat seasons, at the rate of Rs. 4,400 per acre per season.
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**Total** 170.26 1,498,262

### Feed for Larkana-III Grid Station

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<th>Crop Damage Area (Acres)</th>
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6 Basis: Transmission line corridor for crop compensation: 30 m; crop compensation for two wheat seasons, at the rate of Rs. 4,400 per acre per season.
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<th>Tower</th>
<th>Landowners</th>
<th>Crop Damage Area (Acres)</th>
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<tr>
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### Appendix E

#### HESCO 6th STG Project (2006-07)

**ESA Report**

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<tr>
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#### Feed for Tando Bago Grid Station

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# Basis:
- Transmission line corridor for crop compensation: 30 m;
- Crop compensation for two wheat seasons, at the rate of Rs. 4,400 per acre per season.

---

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FRT07V03HES-APE
# Appendix E

## Feed for Matiari Grid Station

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<th>Tower</th>
<th>Landowners</th>
<th>Crop Damage Area (Acres)</th>
<th>Crop Compensation (Pak Rs.)</th>
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<td>4</td>
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## Feed for Kandiari Grid Station

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8 Basis: Transmission line corridor for crop compensation: 30 m; crop compensation for two wheat seasons, at the rate of Rs. 4,400 per acre per season.
## Crop Damage Crop Tower Landowners Area Compensation Notes

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<th>Tower</th>
<th>Landowners</th>
<th>Crop Damage Area (Acres)</th>
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Appendix F: Health Effects of PCBs

This appendix provides the information on the health effects of the PCBs.

Citation in the Main Report: Section 6.3.3.

What are PCBs?
Polychlorinated biphenyls (PCBs) are a group of 209 synthetic chemical compounds which are colorless and odorless. From 1929 to 1977 PCBs were manufactured in the United States and widely used in electrical equipment and other industrial uses. Due to the harm PCBs cause to humans and wildlife, their manufacture was banned in 1977.

How are people exposed to PCBs?
PCBs are found primarily in lake and river bottom sediments and fatty tissues in fish. Eating contaminated fish remains the major route of exposure to PCBs. Other sources of exposure remain very small.

How do PCBs affect human health?
PCBs are stored in the fat of animals and humans. PCBs and other contaminants can accumulate in the body over time. It may take months or years of regularly eating contaminated fish to build up amounts that are a health concern. However, PCBs may eventually affect your health or that of your children.

Pregnant women and young children: Mothers who eat highly contaminated fish before birth may have children who have slower mental development and difficulty learning. A pregnant woman can pass these chemicals to her unborn child and to the new baby through breast milk. However, the significant benefits of breastfeeding far outweigh the associated risks. Young children may also experience developmental health effects.

Adults: Adults should also remain concerned about PCBs because they may cause liver and immune system problems, including cancer.

How can I reduce my health risks to PCBs?
Most exposure to PCBs comes from eating contaminated fish. The best way to reduce the health risks is to eat only the safest fish. Some examples include:

- Choose smaller and younger fish. Generally, panfish and fish just over the legal size will have fewer PCBs.
- Choose lean fish. Panfish, brook trout and brown trout that live in streams and rivers tend to be low in fat. Small walleye, northern pike and bass, especially those that are just legal size, also tend to have fewer chemicals.
- Release predator fish that are very large, like walleye, northern pike, muskie, and lake trout. These fish tend to have more PCBs. Bass have different advisories. Carp and catfish also tend to accumulate more chemicals. Any size of carp caught in the Lower Fox River should not be eaten.
- Advise women of childbearing age, pregnant women, nursing mothers and young children to select their catch or meals carefully (follow the Wisconsin Fish Consumption Advisory, Internet links can be found below).
- Trim the skin and fatty areas off the fish where contaminates accumulate (see filleting recommendations below).

How can a fish be safely filleted?

Properly trimming fish can reduce the concentration of PCBs and other chemicals. However other chemicals such as methyl mercury, are stored throughout the fish and cannot be filleted. Trim the fatty areas of the fish before cooking. Cook the fish in ways that allow fat (and the unwanted chemicals) to drip away. About half of the PCBs can be removed by trimming away the fatty parts of the fish. Filleting and PCBs: Fillet along the belly, the top of the back, and the dark meat along the skin side of the fish. Remove the skin before cooking. This allows fats to drain off.

Cook so fat drips away. Bake, broil or grill on a rack, or poach and do not use the liquid for sauces or gravy.

![Fish filleting diagram]

Remove all skin
Cut away all fat along the back
Cut away a V-shaped wedge to remove the dark meat
Slice off the fatty tissue along the entire length of the fillet belly fat

For more information
- Contact the Wisconsin Division of Public Health, Bureau of Environmental Health, PO Box 2659, Madison, WI 53701-2659, (608) 266-1120; or
- Visit the department's website, http://www.dhfs.state.wi.us/eh

Prepared by the Wisconsin Division of Public Health, with funds from the Agency for Toxic Substances and Disease Registry (ATSDR), Public Health Service, USDHHS. (PPH 45014 6/2001)
Appendix G: Electromagnetic Radiation Effects

This appendix provides information on health impacts associated the electromagnetic radiation.

Citation in the Main Report: Section 9.4.2.

Is There a Concern About Power Lines and Cancer?\(^1\)

The concern about power lines and cancer comes largely from studies of people living near power lines (see \textit{Q12}) and people working in "electrical" occupations (see \textit{Q15}). Some of these studies appear to show a weak association between exposure to power-frequency magnetic fields and the incidence of some cancers. (See complete text of the FAQs at: http://www.mcw.edu/gcrc/cop/powerlines-cancer-FAQ/toc.html.)

However:
- the more recent epidemiological studies show little evidence that either power lines or "electrical occupations" are associated with an increase in cancer (see \textit{Q19});
- laboratory studies have shown little evidence of a link between power-frequency fields and cancer (see \textit{Q16});
- an extensive series of studies have shown that life-time exposure of animals to power-frequency magnetic fields does not cause cancer (see \textit{Q16B});
- a connection between power line fields and cancer is physically implausible (see \textit{Q18}).

The International Commission on Non-Ionizing Radiation Protection (2001):

"In the absence of evidence from cellular or animal studies, and given the methodological uncertainties and in many cases inconsistencies of the existing epidemiologic literature, there is no chronic disease for which an etiological [causal] relation to [power-frequency fields] can be regarded as established". (See \textit{B12})

The International Agency for Research on Cancer (2001):

"There is limited evidence in humans for the carcinogenicity of extremely low-frequency magnetic fields in relation to childhood leukaemia.... There is inadequate evidence in humans for the carcinogenicity of extremely low-frequency magnetic fields in relation to all other cancers [and] there is inadequate evidence in humans for the carcinogenicity of extremely low-frequency electric fields." (see \textit{Q27J})

The U.S. National Institutes of Health (2002):

"The overall scientific evidence for human health risk from [exposure to power-frequency fields] is weak. No consistent pattern of biological effects from exposure to [power-}

\(^1\) Excerpts from ‘Power Lines and Cancer FAQs’. By John Moulder, Professor of Radiation Oncology, Medical College of Wisconsin, Milwaukee, Wisc, U.S.A. Address: jmoulder@mcw.edu.
frequency fields] has emerged from laboratory studies with animals or with cells. However, epidemiological studies... had shown a fairly consistent pattern that associated potential [exposure to power-frequency fields] with a small increased risk of leukemia in children and chronic lymphocytic leukemia in adults... For both childhood and adult leukemias interpretation of the epidemiological findings has been difficult due to the absence of supporting laboratory evidence or a scientific explanation linking [exposure to power-frequency fields] with leukemia. (see Q27G).

The U.K. National Radiological Protection Board (2004):

"The epidemiological evidence indicates that exposure to power-frequency magnetic fields above 0.4 microT [4 milliG] is associated with a small absolute raised risk of leukaemia in children... However, the epidemiological evidence is not strong enough to justify a firm conclusion that [power-frequency magnetic] fields cause leukemia in children. There is little evidence to suggest... that cancer risks of other types, in children and adults, might arise from exposure to [power-frequency magnetic] fields... The results of epidemiological studies, taken individually or as collectively reviewed by expert groups, cannot be used as a basis for derivation of quantitative restrictions on exposure to [power-frequency magnetic] fields." (see Q27H)

Overall, most scientists consider that the evidence that power line fields cause or contribute to cancer is weak to nonexistent.

For the complete text of all the FAQs, please see the following website: http://www.mcw.edu/gcrc/cop/powerlines-cancer-FAQ/toc.html.