REPUBLIC OF IRAQ

MINISTRY OF PLANNING

Iraq "Social Fund for Development" Project (SFDP)

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

FOR THE

REHABILITATION OF ELECTRICITY DISTRIBUTION GRID IN 9 VILLAGES (ABU KANBARA, ABU SARIFAH, AL AKSHEH, AL KARIM, AL THAWIHER, FINJAN AL THAHER, AL KHUDRA, DIBIS AND AL TAWAWREH)

IN AL-MUTHANA GOVERNORATE

14TH **JANUARY 2020**

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List of Abbreviations

CDGs Community Development Groups

ESMP Environmental and Social Management Plan

EHS Environmental, Health, and Safety

EMF Electrical Magnetic Field

ESMF Environmental and Social Management Framework

GIIP Good International Industry Practice

GOI Government of Iraq

GRM Grievance Redress Mechanism

GBV Gender Based Violence

MOE Ministry of Environment

MOP Ministry of Planning

MSDS Material Safety Data Sheets

MWMP Medical Waste Management Plan

OP Operational Policy

PAPs: Project Affected Peoples

PMO Project Management Office

PPE Personal Protective Equipment

RE Resident Engineer

SFD Social Fund Development

TOR Terms of Reference

WB World Bank

WHO World Health Organization

EXECUTIVE SUMMARY

INTRODUCTION	This ESMP is prepared in accordance to the ESMF requirements of the SFD project. The main objective of the ESMP is to assess the environmental and socio-economic impacts of the subprojects (during construction and operation phases) and to propose mitigation measures to mitigate the impacts associated with subproject. This subproject includes the Rehabilitation of electricity distribution grid in 9 villages in Al-Muthana governorate. The subprojects are expected to result in significant socio-economic benefits for the local communities and surrounding areas as it will improve the electricity distribution networks; increase the flexibility of providing electricity and therefore providing electricity to schools and other industrial and commercial activities.			
PROJECT DESCRIPTION	Kanbara, Abu Sari villages in Al-Muth day. Workers are installed on vacant owned land. The a including mobilizat on Al-Muthana Gowill include installisuch as shallow ex	et consists of the rehabilitation of electrical distribution grid lines in 9 villages. The 9 villages are: Abu us Sarifah, Al Aksheh, Al Karim, Al Thawiher, Finjan Al Thaher, Al Khudra, Dibis and Al Tawawreh -Muthana governorate. The Rehabilitation of each electrical grid line will need about 15-20 worker per sare expected to be hired locally, however if a construction camp is deemed necessary, it will be vacant state-owned land. Also, equipment and construction materials will be stored on vacant state-The anticipated duration of all works is around 180 days for all electrical distribution grid lines bilization and demobilization of contractors in the 9 villages. Works for Rehabilitation of the grid lines has Governorate will include removing the old and damaged cables and all other fittings. Then the work low excavation for poles, lifting the soils and other waste produced during the excavation, and also ler to prepare the foundations for the poles.		
ENVIRONMENTAL AND SOCIAL	Climate	Al-Muthana governorate is located in the souther major rain, is about 106 mm yearly, falls during spread showering in April. The average annual wind velocity is 2.3m/s.	ing the period December thru March, with a	
BASELINE	Air quality	The ambient air quality is within normal range.		
CONDITIONS	Land	No additional land for the work is needed to reha	9	
	Biodiversity	No protected areas or endangered species (there might be affected) in the vicinity of the sites.	e is no critical or high biodiversity values that	
	Culture heritage	The sites adjacent areas do not include any histor	rical or cultural sites.	
POLICY AND		Applicable Iraqi laws	Applicable WB Policies	
LEAGAL	• Law no. 37 of 2008 Institutional arrangements for the Ministry of • OP 4.01 Environmental Assessment			

FRAMEWORK	Environment		
	• Law no. 27 of 2009 New Environmental Framework	OP 4.12 Involuntary Resettlement	
	• Regulations no. 2 of 2001 Preserving water resources	OP 4.11 Physical and Cultural Resources	
	• Law No.3 issued in 1997 for environmental protection	• WBG General Environmental, Health, and Safety guideline	
	• Law No. (55) Issued in 2002 Law of heritage and antiques	WBG Environmental, Health, and Safety guideline for power Transmission and distribution	
	• Law No. 37 of 2015 labor law	Grievance Redress Service (GRS)	
	Environmental Receptor	Impact Significance	
	Air Quality	Medium	
	Noise	Medium	
	Water Resources	Low	
	Soil	Low	
ENVIRONMENTAL	Solid and hazardous wastes	Low	
AND SOCIAL	Flora & Fauna	Not significant	
IMPACT ANALYSIS	Topography and landforms	Not significant	
	Impacts on local traffic	Low	
	Health and Safety	High	
	Socio-Economic impacts	Medium	
	Child labor	Medium	
	Labor influx	Low	
	Creation of Job opportunities	High	
PUBLIC	Two modalities of consultations were carried out for this subproject. Public consultation was conducted in all 9 villages with men only due to the tribes' habit where 95 participants attended. The second approach was one-to-one		
CONSULTATION		* *	
RESULTS	interviews with both men and women to have their views and concerns of potential impacts during implementation.		
	The number of individuals interviewed was 17 women and 47 men.	1	
CDIEVANCE	The SFD is in the process of establishing a free hotline and is expected to be functioning within the next few		
GRIEVANCE	Meanwhile, in order to comply with the WB requirements, SFD has temporary assigned three staffs as focal points		
REDRESS			
MECHANISM complaints. The contact details will be posted at site signboard and the complaint boxes will be installed			
	location.		

Main Report

1. INTRODUCTION

According to the Environmental and Social Management Framework (ESMF) which was prepared for the Social Fund for Development project (SFDP) and disclosed locally and on the WB website, an Environmental and Social Management Plan (ESMP) should be prepared, cleared and publically consulted upon and disclosed prior to the commencement of any construction activities for the proposed subprojects.

This ESMP is developed to identify, assess and mitigate the environmental and social risks and impacts associated with the rehabilitation and operation of the electricity distribution grid in **nine** villages in **Al-Muthana** governorate. The ESMP is developed following the WB operational policies and Iraqi environmental and social standards. The ESMP should be implemented by all relevant parties.

The objectives of this ESMP are to:

- Provide practical and achievable actions to ensure that the construction adverse environmental and social impacts are properly avoided or mitigated;
- Illustrate the institutional arrangements for implementing and monitoring the mitigation plans;
- Integrate community views and input on the environmental and social impacts related to the implementation of these subprojects;
- Comply with WB and national requirements;
- Provide information to the local community on the subproject activities, the associated risks and impacts, mitigation measures and introduce the Grievance Redress Mechanism (GRM) system.

2. PROJECT DESCRIPTION

This subproject involves the rehabilitation of nine electrical gridlines located in the Governorate of Al-Muthana southwest of Baghdad as one contract package. Samawa is the administrative center of Al-Muthana governorate. The rehabilitation of the grid lines on Al-Muthana Governorate will include removing the old and damaged overhead cables and all other fittings and move them in the store that belongs to the ministry of electricity. Then the work will include installing distribution transformers, and cables. The work will also comprise of some civil works such as shallow excavations for poles, lifting the soils and other waste produced during the excavation, and also casting in order to prepare the foundations for the poles. These electrical gridlines will serve Abu Kanbara, Abu Sarifah, Al Aksheh, Al Karim, Al Thawiher, Finjan Al Thaher, Al Khudra, Dibis and Al Tawawreh villages within Al-Muthana governorate. Please refer to the below figure for the locations of the nine villages that need the electrical rehabilitation.

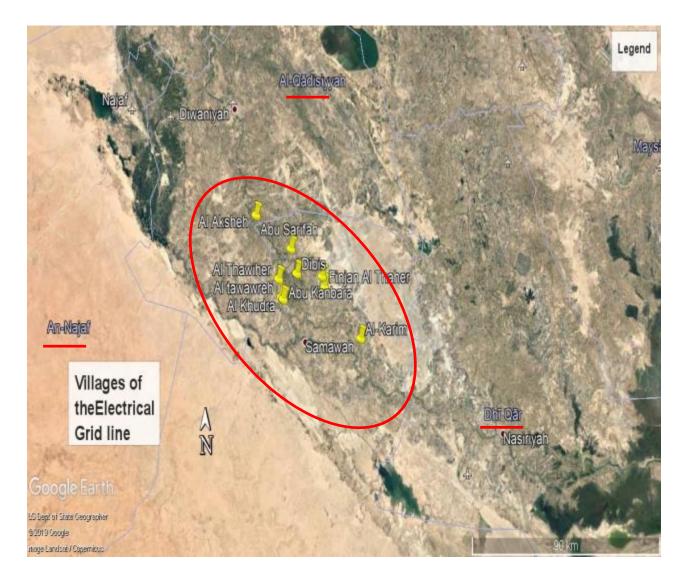


Figure 1 Google map showing the location of the villages for electrical Distribution grid lines rehabilitation

2.1 Objective of the Construction Works

The objective of the subproject is to rehabilitate the above-mentioned electrical grid lines. The subproject will improve the electricity distribution networks, increase the flexibility of providing electricity and therefore providing electricity to schools and other industrial and commercial activities, and will support mitigating the effects of war to attract displaced citizens to their villages.

2.2 Scope of Work

Works for rehabilitation of the grid lines in Al-Muthana Governorate will include removing the old and damaged cables and all other fittings and move them in the store that belongs to the ministry of electricity. These villages are provided with power via connection to existing sub-transmission line which is connected to transmission substation and the Voltage is 220V. Then the work will include installing oil type pole-mounted distribution transformers, cables and circuit breakers as follows:

Village	Transformers	Circuit Breakers	Cables (m)
Abu Kanbara	3	8	5000 + 5100
Abu Sarifah	3	6	3000 + 1400
Al Aksheh	6	16	4690 + 7980
Al Karim	3	6	9700 + 2100
Al Thawiher	3	6	2140 + 130
Finjan Al Thaher	3	6	2560 + 270
Al Khudra	6	12	13000 + 5700
Dibis	6	12	12000 + 15000
Al Tawawreh	9	18	9000 + 740

The work will also comprise of some civil work such as shallow excavation for poles, lifting the soils and other waste produced during the excavation, and also casting in order to prepare the foundations for the poles. The anticipated duration of rehabilitation works in the 9 villages is about 6 months with about 15-20 workers per day per site and most of them are local workers and the rest are engineers and technicians. Workers from other villages will need to have their accommodation facilities in the camp, during the rehabilitation phase. Setup of a camp in the area near of each electrical gridline will be on vacant state-owned lands. Also storage of equipment and construction materials will be on vacant state-owned lands. The construction is expected to take place by carrying the pole materials to each pole base by lorry and assembling the poles (9-11m in height) on site. Work is expected to take place at several construction locations at the same time. The construction teams at each location would consist of crews, working one after another, with each crew responsible for one of the following: preparing the foundations for the poles, erecting of the poles and installing the wires and its accessories.

3. BASELINE CONDITIONS

3.1 The Project Area

The subproject is located in the governorate of Al-Muthana that is situated in southern part of Iraq, Al-Muthana borders Saudi Arabia and shares internal boundaries with the governorates of Basra, Thi-Qar, Al-Qadisiyah, and Al-Najaf (as shown in figure 2 below). The proposed location of these electrical distribution grid lines will be in an open area.

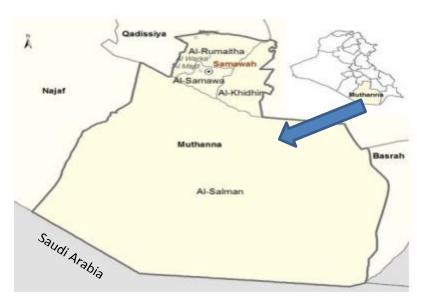
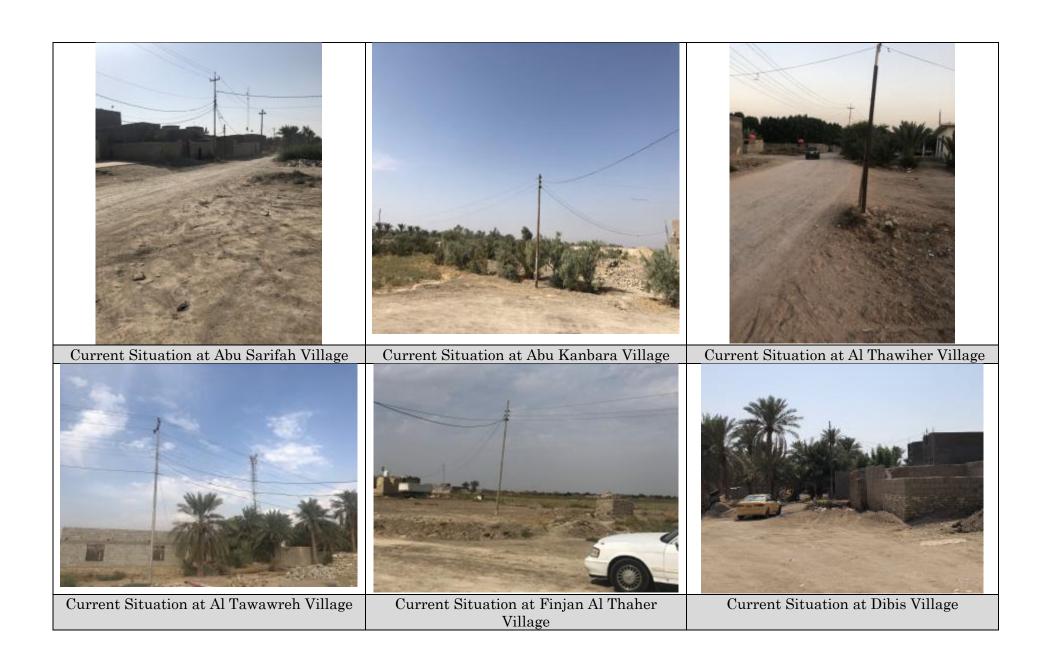


Figure 2 Map of Iraq on the right and Al-Muthana governorate on the left.

These subprojects are located in flat areas. The area adjacent to the project sites is characterized as rural residential and semi desertic to agricultural in some area. The current situation of these electrical grid lines are shown below:



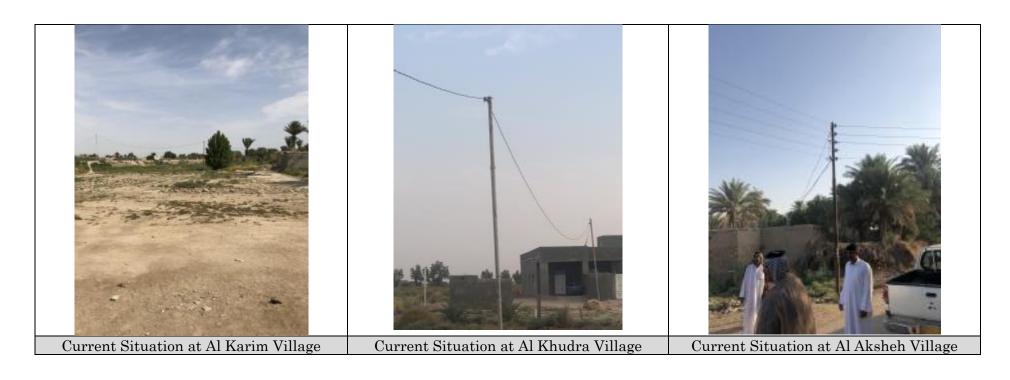


Figure 3: Current situation of electricity distribution grid lines in the nine villages

3.2 Environmental and Social Baseline Conditions

The environmental baseline section is presented to give clear overview of the environmental and social conditions in the vicinity of the subproject locations prior to commencement of works.

3.2.1 Climate

Al-Muthana governorate is located in the southern part of Iraq. The governorate's landscape is dominated by desert plains, with only a narrow ribbon of irrigated farmland along the Euphrates River in the north. The major rain falls during the period December thru March, with a spread showering in April. During the year, about 106 mm of precipitation falls annually. In summer temperatures easily surpass 40°C, the average annual temperature is 23.8 °C. The driest weather is in June, July & August, September when no rainfall (precipitation) occurs. While, the wettest weather is in December - March when rainfall (precipitation) occurs. The average monthly wind velocity is 2.3m/s.

3.2.2 Air Quality

The subproject sites are located in residential open areas, so the expected concentrations of air pollutants are low. Air pollutants in the villages are caused mainly from movement of vehicles and trucks. Therefore, the ambient air quality is expected to be within the WHO ambient air quality standards.

3.2.3 Site Topography

No natural land obstacles are presented in the subproject areas. The subproject areas are free of mountains, cliffs, and valleys. There are no protected areas or endangered species (there is no critical or high biodiversity values that might be affected) in the vicinity of the sites (more than 4 Km) for all the villages.

3.2.4 Land use

The area adjacent to the project sites is characterized as rural residential and semi desertic to agricultural in some area. However, the rehabilitation activities will not cause an impact on agricultural are or make any crop damage.

3.2.5 Flooding

There are no records of flooding that occurred previously in the area.

3.2.6 Noise

Currently, there is no traffic congestion and consequently the existed noise level is within the normal levels.

3.2.7 Heritage Environment

There are no sites of historical or cultural importance in the area. There are no cemeteries, historical-cultural monuments, churches, mosques near the project that need to be removed or will be impacted due to the rehabilitation activities.

3.2.8 Traffic Level

No traffic problem or traffic congestion will be expected during the rehabilitation phase or in the operation phase.

3.2.9 Land acquisition

The rehabilitation activities of electrical grid lines will be within the existing footprints of the lines that were built on state-owned lands. Contractors are expected to use part of these lands temporary for the storage of their equipment and materials. No permanent or temporary land acquisition is anticipated, and the rehabilitation activities will not cause relocation of people and any individuals.

3.2.10 Social Aspects

The population in each village is presented in the table below. There are no close residential complexes or community structures in close proximity to these subprojects. All the areas around and within the sites remain clear of any settlement or economic use and are ready for rehabilitation works, no interference was registered from the local community who are eager for the works to be start.

Table 1: Population of each village

Viallage	Population
Abu Kanbara	1924
Abu Sarifah	1153
Al Aksheh	1173
Al Karim	2290
Al Thawiher	1220
Finjan Al Thaher	850
Al Khudra	1323
Dibis	1400
Al Tawawreh	1534

4. LEGAL ASPECTS

4.1 Iraqi environmental legislations

During construction and operation phases of the subproject, the work must follow the Iraqi laws and regulations for the environmental standards. These are:

- 1. Laws of the environment protection No.3 issued in 1997 and its relevant published regulations. No environmental regulations for gaseous emissions, noise and other air pollution standards are in force and legally binding. However, limits for water disposal in any surface waters and main sewers are regulated according to the regulations no. (25)/1967 and their update modifications released from the Ministry of Health (MOH) and the Ministry of Environment (MOE).
- 2. New environmental framework Law No. 27 of 2009 by the Iraqi National Government was introduced but the executive decrees remain to be prepared. There are as yet no formally adopted requirements for environmental assessment.
- 3. Regulations governing contact with archaeological sites extend also to encompass developmental activities like road construction and rehabilitation wherever these developmental activities lie within archaeological vicinity.
- 4. Regulations of the MOE on sanitary waste must be followed, and for the rubbles (construction & demolition waste) the regulations, legislations and instruction of both MOHE and MOCHPM.

No environmental regulations for gaseous emissions, noise and other air pollution standards are in force and legally binding. Law of heritage and antiques no. (55) Issued in 2002, while for a sanitary waste (municipal) the regulations of the MOE must be followed, and for the rubbles (construction &demolition waste) the regulations, legislations and instruction of both MOHE and MOCHPM must be followed. It is important also to mention that, the contractor will sign employment agreement with all construction workers by following labor law of Iraq no 37 of 2015.

It should be noted that legislation relating to social safeguards issued in Iraq since 2003 has focused primarily on the ratification of international conventions and protocols on issues such as cultural heritage. As yet there are no formally adopted requirements for social assessments relating to construction works. Hence, social safeguards issues remain very largely uncovered except to the extent they are referred to under environmental laws.

Table 2: Applicable Laws and Regulations in Iraq

Law	Subject
Law no. 37 of 2008 for	Describes institutional arrangements of the Ministry of
Ministry of Environment	Environment and Outlines policies and roles and responsibilities
	toward protecting the environment.
Law no. 27 of 2009	Protection and Improvement of Environment Environmental
	protection from pollution resulted from petrol and natural gas
	extraction
Regulations no. 2 of 2001	Preserving water resources.
Law no. (55) Issued in 2002	Law of heritage and antiques
Law No. 37 of 2015.	Labor Law Labor codes, general labor and employment acts

4.2 The World Bank Safeguards Policies

In addition to the Iraqi laws and regulation the ESMP follows key policies and procedures of the World Bank; the following section presents the WB operational policies relevant to the construction and operation of the subprojects.

- 4.2.1 OP/BP 4.01 Environmental assessment procedure.
- 4.2.2 OP/BP4.12 The key Operational Policy
- 4.2.3 OP/BP 4.11 Physical Cultural Resources

4.3 WBG EHS: The Environmental, Health, and Safety (EHS) Guidelines

These are technical reference documents with general and industry-specific examples of Good International Industry Practice (GIIP). When one or more members of the WB Group are involved in a project, these EHS Guidelines are applied as required by their respective policies and standards.

5. IMPACT ASSESSMENT AND MITIGATION MEASURES

5.1 Construction Phase

This section of the report describes the environmental and social impacts that are likely to result from the rehabilitation of these subprojects, and the mitigation measures addressing them. The Environmental mitigation plans, procedures and responsibilities as required during the construction phase must comply with the available specifications, legislation, laws issued by the MOHE.

The construction contractor(s) will be responsible for compliance with the ESMP provisions during the rehabilitation phase of these electricity distribution grid lines. The contractor will be also in charge of undertaking construction works in a manner which complies with all relevant environmental procedures, adheres to all legislative requirements, and ensures that all environmental objectives associated with the contract are achieved. The overall assessment of the key environmental and social impacts is summarized below. According to the above environmental baseline and the proposed mitigation measures, it can be expected that the impact significance is low for most of the environmental indicators for some parameters while health and safety has high impact as shown in the table below:

Table 3: Summary of Impact Assessment during Construction

	Environmental and Social Indicators	Impact Significance	
1	Air Quality	Medium	
2	Noise	Medium	
3	Water Resources	Low	
4	Soil	Low	
5	Solid and hazardous wastes	Low	
6	Flora & Fauna	Not significant	
7	Topography and landforms	Not significant	
8	Impacts on local traffic	Low	
9	Health and Safety	High	
10	Socio-Economic impacts	Medium	

11	Child labor	Medium
12	Labor influx	Low
13	Creation of Job opportunities	High

5.2 Operational Phase

During the operational period, the subprojects are expected to result a positive socioeconomic outcome for the local communities. Socially harmful consequences of these electrical grids are not anticipated. However, the continued operation of a GRM for one year following opening of these grids will ensure that local community members have an accessible, fair and transparent means of reporting any emerging adverse impacts, and a means of obtaining mitigation.

During operation of the electrical grid lines, hazardous wastes might be generated during routine operations (e.g., used oils, hydraulic fluids, coolants, solvents, and cleaning agents) and in the same time the risk of soil contamination is minimal. Therefore, minor negative impact may be resulted due to these wastes. These wastes are typically should be placed in containers, characterized and labeled, possibly stored briefly, and transported by a licensed contractor to an appropriate permitted off-site disposal facility as a standard practice to minimize the impact. It's also, Scrap fittings, insulators; cross arms, conductors, and other scrap which are expected, however it is expected that the amount of generated hazardous waste will not be significant. In terms of Noise from grid lines which is usually not clearly audible to a person on the ground below; however, noise may be emanated due to corona effects. Corona associates with operating grid lines under certain weather conditions, rainy and foggy weather, which does not normally occur within the project area. For the health and safety impact, There are major safety risks associated with the operation of electrical distribution grid lines: 1) electric shock risks, and 2) the probability to fall down the pole, however, the normal safety precautions that are followed in the design and construction of electrical grid lines, transformers, etc. are generally minimizing such risks both to the general public and to the maintenance workers.

6 ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

In this section, the identified mitigation measures will be summarized. The responsibility for implementation of the mitigation measures will be mostly upon the contractor. However, the supervision and assurance that the mitigation measures are implemented will be the responsibility of the Resident Engineer who represents the ministry as the Project Owner.

The Resident Engineer (RE) will be assisted by a team of environmental and social officers who will be responsible for supervising the daily activities of the contractor and will report non-compliances to the Resident Engineer in order to take necessary actions towards the contractor in addition to the OHS aspects. Regular supervision site visits will also be conducted by the PMO environmental/social officer in association with a qualified environmental and social consultant who will provide technical advice in case there is a need to modify or add new mitigation measures as work necessitates.

The costs of mitigation measures are estimated based on the average market rates for similar activities in Iraq and can be used as indicative costs. It is the sole responsibility of the contractor to estimate the costs associated with the recommended mitigation measures based on his work experience.

In terms of hazardous waste, the following mitigation should be followed:

- Provide adequate sanitation facilities serving all workers (mentioned in HSE).
- Paints with toxic ingredients or solvents or lead-based paints will not be used
- All waste should be deposed through licensed haulers/transporters to licensed and regulated landfill sites appropriate to the type of waste generated (e.g. solid, household, hazardous).

The following tables summarize the mitigation measures during the construction and operation phase which are required to be undertaken to avoid any negative impacts on the environment. Responsibilities and estimated costs are also presented.

Table 4: Mitigation Measures during Construction Phase.

	Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated Cost in US\$
1	ماند میرواند م	 Unpaved roads, e.g. which may be utilized for construction vehicles movement or transportation of construction materials should be prepared in a way to avoid dust emissions. Watering to suppress dust should take place regularly. Watering or increase of the moisture level of the open materials storage piles to reduce dust levels. Enclosure or covering of inactive piles to reduce wind erosion. Loads in all trucks transporting dust-generating materials have to be sprayed with water to suppress dust, as well as wheels of means moving inside and outside of the construction-site. Speed reduction for vehicles approaching the site to less than 40 km/hr. On site, speed should not exceed 20 km/hr. 	Contractor	Resident engineer	1000
	Air quality	 Engines of vehicles and other machinery are kept turned on only if necessary, avoiding any unnecessary emission. Machines and equipment are periodically checked and maintained to ensure their good working condition. All equipment and machines must be maintained and tested for compliance with standards and technical regulations for the protection of the environment and have appropriate certifications. Activities are carried out using the minimum required number of means at the same time. Electric small-scale mechanization and technical tools are used when available and feasible. 	Contractor	Resident engineer	Included in contractor cost
		Construction activities are to take place within reasonable hours during the day and early evening. Night-time activates near noise sensitive areas, such as residential buildings, should not be allowed.	Contractor	Resident engineer	Included in contractor cost
2	Noise	 Equipment must be kept in good working order and where appropriate fitted with silencers which are kept in good working order. Equipment to run only when necessary Positioning of the noise sources in a concealed area with respect to acoustic receptors, consistent with the needs of the construction site. 	Contractor	Resident engineer	Included in contractor cost
		Use of personal protection equipment for workers especially those who use jack hammers or near noisy engines or compressors.	Contractor	Resident engineer	1000

Receptor		Mitigation Measures	Responsibility	Supervision	Total estimated Cost in US\$
	Water	Wastewater from the worker rest areas or construction offices should be contained in solid containers and should be removed regularly from site by means of authorized contractors.	Contractor	Resident engineer	1000
3	resources	• In case of using septic tanks on site, the engineering drawings of these tanks should be presented to the Resident Engineer for approval.	Contractor	Resident engineer	Included in contractor cost
4	Soil	 To prevent soil contamination by oil/grease spills, leakages or releases, all manipulations of oil derivatives in the process of construction and provision of the fuel to the machines should be performed with maximum care; leak proof containers should be used for storage and transportation of oil/grease and wash off from the oil/grease handling area shall be drained through drains and treated appropriately before disposal; Construction waste and debris shall be collected on a regular basis and disposed of at designated landfills; Only authorized quarries shall be used for purchasing soil to be used for embankment, padding, bedding, backfilling during construction; and It must be prohibited to operate equipment and vehicles outside the designated work areas and roads. No hazardous waste storage to take place directly on soils. Appropriate and enclosed 	Contractor	Resident engineer Resident	Included in contractor cost
		containers should be utilized.	Contractor	engineer	1000
5	Solid and hazardous wastes	 Minimize waste generation on site. Simple waste management plan for specific waste streams must be developed. General waste must be collected and transported to local council approved disposal sites. Food wastes must be collected, where practicable, considering health and hygiene issues, for disposal off-site through licensed contractors. Waste containers must be located at each worksite. Chemical wastes must be collected in 200 liter drums (or similar sealed container), appropriately labeled, for safe transport to an approved chemical waste depot or collection by a liquid waste treatment service. Allocate and prepare areas for temporary storage of scrap. Storage, transport and handling of all chemicals must be conducted in accordance with all legislative requirements, through licensed contractors and in coordination with the local authority. All hazardous wastes must be appropriately stored in bounded areas and should be clearly identified as "hazardous". Transportation and disposal of hazardous wastes should be done through licensed 	Contractor	Resident engineer in coordination with the local authority and ministry of science and technology regarding hazardous wastes	1000

	Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated Cost in US\$
		 contractors and in close coordination with the relevant local authority and in compliance with the legal requirements and instructions of the ministry of science and technology previously. Hazardous liquids, such as solvents, rust proofing agents and primer must be managed in accordance with the requirements of relevant legislation and industry standards. A hazardous materials inventory for the construction period must be prepared. Material Safety Data Sheets (MSDS) for hazardous materials must be available on-site during construction and made available and explained to workers. Hydrocarbon wastes, including lube oils, must be collected for safe transport off-site for reuse, recycling, transport or disposal at approved locations. 			
6	Flora & Fauna	Not Applicable	Not Applicable	Not Applicable	Not Applicable
7	Topography and landforms	Not Applicable	Not Applicable	Not Applicable	Not Applicable
8	Traffic	 Where practicable, truck deliveries must be restricted to daytime working hours. Clear traffic signs and signs signals must be installed on-site to provide for safe traffic. In case a narrow access road needs to be occupied for limited period (for example by loading/unloading trucks or loaders) the occupation time should be minimized. The contractors should make sure that the employed drivers of construction machinery (such as trucks and loaders) have received sensitization/training on safety utilization of their machines in order to minimize accidents risks. 	Contractor in coordination with the Local Traffic Department for some sections	Resident Engineer	500
		 Limit speed of construction vehicles and provide road signage for drivers and local community. Only allowing trained and certified workers to install, maintain, or repair electrical equipment. 	Contractor	Local traffic department in coordination with RE	1000
9	Health and Safety	 Qualified personnel must be employed for the construction equipment, and personnel must be trained for health and safety issues. The contractor shall prepare an OHS plan and emergency procedures. Use of signs, barriers (e.g. locks on doors, use of gates, use of steel posts surrounding transmission towers, particularly in urban areas), and education / public outreach to prevent public contact with potentially dangerous equipment; Grounding conducting objects (e.g. fences or other metallic structures) installed near 	Contractor	Resident engineer	1500

	Receptor Mitigation Measures		Responsibility	Supervision	Total estimated Cost in US\$
		 power lines, to prevent shock. Personal protection equipment such as eyeglasses, gloves, hard heads and safety belts must be supplied and continuously used by all workers, technicians, engineers and site visitors. 			
	Contractor		Resident engineer	Included in contractor cost	
		 For working at height: Testing structures for integrity prior to undertaking work Installation of fixtures on tower components to facilitate the use of fall protection systems; Implementation of a fall protection program that includes training in climbing techniques and use of fall protection measures Provision of an adequate work-positioning device system for workers. Connectors on positioning systems should be compatible with the tower components to which they are attached; 	Contractor	Resident engineer	1000
		 Any accidents to be reported and treated within site as a first aid procedure. Fuel and oil changing shelters should be equipped with necessary firefighting and safety equipment First aid items should be available all times onsite and trained staff on emergency aids should be identified. 	Contractor	Resident engineer in coordination with health & safety officials.	1000
10	Handling Complaints	• A complaints register will be kept on site and this will feed into the GRM. Details of complaints received will be incorporated into the audits as part of the monitoring process.	Resident Engineer	PMO	Included in contractor cost

Receptor		Mitigation Measures	Responsibility	Supervision	Total estimated Cost in US\$
11	Social impacts	 Job opportunities should be primarily provided to the community people adjacent to the electrical grid lines. Community leaders should be represented in a Steering Committee. They should be informed about the job opportunities available for the community people. The community should voice their concerns through appropriate grievances and redress mechanism. It is strongly recommended that PMO should provide awareness rising among the community that the EMF impact is limited in case of respecting the ROW. 	Contractor	RE/PMO	Included in contractor cost
12	Child labor and Gender Based Violence	 Rigid obligations and penalties will be added to the contractor contracts in order to warrantee no child labor exist in the subproject The PMO will oblige the contractor to keep a copy of IDs of laborers in order to monitor the hired staff (Chapter 11 of the 2015 Labor Law of Iraq sets the age for hazardous works 18 years old). Labor influx should also be managed by contractor and ensure Code of Conduct is introduced and applied to avoid impact on local community and provide mitigation measure for GBV risks The contractor also will be obliged to maintain daily attendance sheets in order to verify the attendance of workers in case of accidents and provide the injured persons with proper health insurance The code of conduct for workers/contractors should be introduced to prevent misconducts, including prevention of sexual harassment and gender based violence and also training and awareness rising for workers should be continued, through daily toolbox talks and other training opportunities. 	Contractor	Resident engineer	Included in contractor cost
		Total cost US\$ (rehabilitation phase)			10,000

Table 5: Mitigation Measures during Operation Phase.

	Receptor	Mitigation Measures Mitigation Measures	Responsibility	Supervision	Total estimated
1	• Air quality	• The net impact of the Project on air quality is not significant and temporary, and will be limited to Construction Period.	Not Applicable	Not Applicable	Not Applicable
2	• Noise	• Noise • Vibration or humming noise can be noticeable and is most often associated with olde electrical grid lines. It is usually the result of conductor mounting hardware that ha loosened slightly over the years and can be easily repaired by the local authority especially near residential areas or other sensitive receptors such as schools and hospitals		Local authorities	No Cost
5	Water resources	Not applicable	Not applicable	Not applicable	Not applicable
4	Soil	Not applicable	Not applicable	Not applicable	Not applicable
5	Solid & hazardous wastes	 During the operational period, some littering and waste generation resulting from the repair activities will occur (Oil from transformer). Littering may occur due to wind action. Providing adequate secondary containment for fuel storage tanks and for the temporary storage of other fluids such as lubricating oils and hydraulic fluids, Using impervious surfaces for refueling areas and other fluid transfer areas 	Local Authority (Municipality)	Local authority (Municipality)	Within municipal budget
6	Flora & Fauna	Not Applicable	Not Applicable	Not Applicable	Not Applicable
7	Topography and landforms	Not Applicable	Not Applicable	Not Applicable	Not Applicable
8	Handling Complains	The continued operation of a GRM for one year following opening of the electrical grid lines for use will ensure that local community members have an accessible, fair and transparent means of reporting any emerging adverse impacts, and a means of obtaining mitigation.	Local authorities	Local authorities	No cost
Ş	Health and Safety	 Only allowing trained and certified workers to install, maintain, or repair electrical equipment Deactivating and properly grounding live power distribution lines before work is performed on, or in close proximity, to the lines Ensuring that live-wire work is conducted by trained workers with strict adherence to 	Local authorities	Local authorities	No cost

Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated
	trained unless: 1- The worker is properly insulated from the energized part with gloves or			
	other approved insulation; or, 2- The energized part is properly insulated from the worker			
	and any other conductive object; or, 3- The worker is properly isolated and insulated from			
	any other conductive object (live-line work).			
	• Where maintenance and operation is required within minimum setback distances, specific			
	training, safety measures, personal safety devices, and other precautions should be defined			
	in a health and safety plan			
	• Workers not directly associated with power transmission and distribution activities who			
	are operating around power lines or power substations should adhere to local legislation,			
	standards, and guidelines relating to minimum approach distances for excavations, tools, vehicles, pruning, and other activities;			
	• Minimum hot stick distances may only be reduced provided that the distance remaining is			
	greater than the distance between the energized part and a grounded surface.			
	• Testing structures for integrity prior to undertaking work;			
	• Implementation of a fall protection program that includes training in climbing techniques			
	and use of fall protection measures; inspection, maintenance, and replacement of fall			
	protection equipment; and rescue of fall-arrested workers, among others;			
	• Establishment of criteria for use of 100 percent fall protection (typically when working			
	over 2 meters above the working surface, but sometimes extended to 7 meters, depending			
	on the activity). The fall protection system should be appropriate for the tower structure			
	and necessary movements, including ascent, descent, and moving from point to point;			
	• Installation of fixtures on tower components to facilitate the use of fall protection systems;			
	• Provision of an adequate work-positioning device system for workers. Connectors on			
	positioning systems should be compatible with the tower components to which they are attached;			
	• Hoisting equipment should be properly rated and maintained and hoist operators properly			
	trained;			
	• Safety belts should be of not less than 16 millimeters (mm) (5/8 inch) two-in-one nylon or			
	material of equivalent strength. Rope safety belts should be replaced before signs of aging			
	or fraying of fibers become evident;			
	• When operating power tools at height, workers should use a second (backup) safety strap;			
	· Signs and other obstructions should be removed from poles or structures prior to undertaking work;			
	• An approved tool bag should be used for raising or lowering tools or materials to workers			
	on structures.			
	• Identification of potential exposure levels in the workplace, including surveys of exposure			
	levels in new projects and the use of personal monitors during working activities;			

	Receptor Mitigation Measures Responsibility Supervision		Supervision	Total estimated	
		 Training of workers in the identification of occupational EMF levels and hazards; Establishment and identification of safety zones to differentiate between work areas with expected elevated EMF levels compared to those acceptable for public exposure, limiting access to properly trained workers; Implementation of action plans to address potential or confirmed exposure levels that exceed reference occupational exposure levels developed by international organizations such as the International Commission on Non-Ionizing Radiation Protection (ICNIRP), and the Institute of Electrical and Electronics Engineers (IEEE). Use of signs, barriers (e.g. locks on doors, use of gates, use of steel posts surrounding transmission towers, particularly in urban areas), and education / public outreach to prevent public contact with potentially dangerous equipment; Grounding conducting objects (e.g. fences or other metallic structures) installed near power lines, to prevent shock. 			
10	Child labor and Gender Based Violence	 Rigid obligations should be applied in order to warrantee no child labor exist in the subproject. The Local authorities will be responsible to keep a copy of IDs of laborers in order to monitor the hired staff (Chapter 11 of the 2015 Labor Law of Iraq sets the age for hazardous works 18 years old). Labor influx should also be managed by contractor and ensure Code of Conduct is 	Local authorities	Local authorities	No Cost
		Total cost US\$ (Operation phase)			No Cost

7 ENVIRONMENTAL AND SOCIAL MONITORING PLAN

7.1 Environmental and Social Monitoring

In order to ensure full compliance of the performed activities to the environmental and social requirements, regular monitoring should be performed. For this purpose, an environmental and social monitoring program has been established for the construction phase to ensure the proper implementation of the environmental and social mitigation measures.

7.2 ESMP Institutional Arrangements

In order to ensure full compliance with the environmental and social requirements which are described above, PMO nominated a qualified engineer to act as the focal point for environmental and social affairs at the central level. On the field level, PMO nominated two engineers in Al-Muthana to act as environmental and social officers. Those engineers will be trained on monitoring and reporting of environmental and social impacts and how to fill the checklist to be used during field visits before implementation starts.

The Resident Engineer will be the officially responsible staff member for ensuring environmental and social compliance. S/He will be assisted by the designated environmental and social field officers.

In addition, a qualified consultant is recruited by the PMO to provide technical assistance and capacity building to the environmental and social team both at the central level and at the field level.

7.3 Reporting requirements

In order to ensure that the mitigation and monitoring measures are being carried out effectively with the required frequency, a clearly defined and regular reporting and response system must be established. The needed frequency of report generation for inspection is to be monthly, and for auditing twice a year, environmental monitoring is once per year.

The information will be made available to the relevant regulatory authorities as required. In addition to the monitoring and reporting requirements documented in the relevant sections of the ESMP, the following reporting regime will be implemented:

- a) All incidents or accidents during the rehabilitation should be reported immediately to relevant authorities.
- b) All corrective measures must be discussed to ensure compliance with laws and regulations.
- c) Reports for personnel training on environmental issues or emergency practices must be produced.
- d) Progress reports, environmental monitoring report and other inspections reports must be produced periodically.

The PMO environmental and social field officers will provide the Resident Engineer with a weekly report briefing their observations and recommendations for action. Whereas the Resident Engineer shall prepare an environmental and social management report on monthly basis to PMO in Baghdad.

Table 6: Monitoring Activities during Construction Phase.

Rece	eptor	Monitoring Activities	Monitoring Indicators	Frequency	Responsibility	Supervision	Total estimated Cost in US\$
1	Air quality	 Investigate dust complaints from workers and residents Visual inspection of vehicles and equipment operating or entering the site and Measurements of exhaust emissions (CO, SOx, NOx, PM10, PM2.5) 	 Recorded and documented complaints Record the status of equipment and vehicles on site (excessive black or white smoke) 	Daily visual inspectionOnce every six month	Resident Engineer	РМО	1,000
2	Noise	Investigate noise complaints from workers and neighboring communities in the affected locations	 Recorded and documented complaints Recorded tests results 	 Weekly inspection of complaints Only in case of complains 	Resident Engineer	PMO	1,000
3	Water resources	 Investigate implementation of mitigation measures and observe any oil or fuel spills. Investigate wastewater disposal measures 	Site Investigation report	Daily Investigation	Resident Engineer	РМО	No cost
4	Soil	 Observe any soil contamination with oil or fuel Observe any accumulation of wastes 	Site Investigation report	Monthly	Resident Engineer	РМО	No cost
5	Solid and hazardous wastes	 Maintain records on waste types and quantities Observe any waste accumulation in un approved locations 	 Waste management contracts with authorized contractors Waste delivery receipts from local authorities. 	Weekly Weekly	Resident Engineer	PMO	No cost
6	Health and safety	Ensure compliance of workers to Health and Safety requirementsMaintain log on accidents	Observation report Accidents report	Weekly	Resident Engineer	PMO	No cost
7	Flora & Fauna	Record any observation about wild animals or plants on site or nearby	Observation report	Upon occurrence	Resident Engineer	PMO	No cost

Rece	eptor	Monitoring Activities	Monitoring Indicators	Frequency	Responsibility	Supervision	Total estimated Cost in US\$
		and report to the Environmental Authority					
8	Topography and landforms	No monitoring required	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
9	Traffic	Ensure speed limits and warning signs are installed	Road signs are installed.	Monthly	Resident Engineer	PMO	No cost
10	Handling Complaints	and well communicated	Number of complaints received, analyzed and responded to.	Weekly	Resident Engineer	PMO	No cost
11	Child labor and Gender Based Violence	are not employed directly or	 A copy of IDs of laborers and labor registry. Percentage of workers that have attended the code of conduct training and number of GBV training delivered. 	·	Resident Engineer	РМО	No cost
		Total co	ost US\$ (Operation phase)				2,000

Table 7: Monitoring Activities during Operation Phase

Rec	eptor	Monitoring Activities	Monitoring Indicators	Frequency	Responsibility	Supervision	Total estimated Cost in US\$
1	Air quality	No monitoring required	Not applicable	Not applicable	Not applicable	Not applicable	No cost
2	Noise	Investigate noise from vibration or humming noise in the affected locations	Recorded and documented complaintsRecorded tests results	Only in case of complains	Resident Engineer	Local authorities	No cost

Rece	ptor	Monitoring Activities	Monitoring Indicators	Frequency	Responsibility	Supervision	Total estimated Cost in US\$
3	Water resources	No monitoring required	Not applicable	Not applicable	Not applicable	Not applicable	No cost
4	Soil	No monitoring required	Not applicable	Not applicable	Not applicable	Not applicable	No cost
5	Solid and hazardous wastes	 Maintain records on waste types and quantities Observe any waste accumulation in un approved locations 	 Waste management contracts with authorized contractors Waste delivery receipts from local authorities. 	Weekly	Resident Engineer	Local authorities	No cost
6	Health and safety	 Ensure compliance of workers to Health and Safety requirements Maintain log on accidents 	Observation report Accidents report	Weekly	Resident Engineer	Local authorities	No cost
7	Flora & Fauna	No monitoring required	Not applicable	Not applicable	Not applicable	Not applicable	No cost
8	Topography and landforms	No monitoring required	Not applicable	Not applicable	Not applicable	Not applicable	No cost
10	Handling Complaints	No monitoring required	Not applicable	Not applicable	Not applicable	Not applicable	No cost
11	Child labor and Gender Based Violence	 Ensuring that children and minors are not employed directly or indirectly on the project. Ensure to prevent misconducts, including prevention of sexual harassment and gender based violence. 	 A copy of IDs of laborers and labor registry. Percentage of workers that have attended the code of conduct training and number of GBV training delivered. 	Weekly	Resident Engineer	Local authorities	No cost
		Total co	ost US\$ (Operation phase)				No cost

The environmental and social consultant will prepare a monthly environmental and social supervision report after conducting site supervision visits.

On quarterly basis, PMO shall prepare an environmental and social progress report which will be submitted to the international financial institution (WB) for review and disclosure.

7.4 Capacity Development and Resources Requirements

PMO dedicated sufficient human resources to undertake the environmental and social management requirements as explained above. The assigned staff at the central and field levels are competent in the field of engineering and have variable practical experience. For the staff who will be responsible for undertaking the environmental and social tasks, they will require some capacity development.

All construction personnel and contractors are required to undertake appropriate environmental training and induction programs including, importantly, on GRM procedures.

All managers and supervisors will be responsible for ensuring that personnel under their control have the requisite competencies, skill and training to carry out their assigned tasks in accordance with the requirements of the ESMP. They will also be responsible for identifying additional training and competency requirements.

All project supervisors and managers will receive additional detailed training on the use and implementation of the ESMP. The following Table presents the proposed institutional strengthening program and capacity development requirements.

	Capacity development topic	Provider(s)	Duration	Estimated Cost (US\$)
1	Environmental Impact Assessment Environmental and social Management in Construction Sites	Consultant	3 Days	1,500
2	Iraqi Environmental Legal Requirements	Ministry of Environment	1 Day	500
3	World Bank Environmental and Social Safeguards	Consultant	2 Days	1,000
	Total Estimated	Cost		\$3,000

Table 8: Capacity Development Requirements

In order to ensure full compliance of the environmental and social requirements, regular site visits should be conducted. Dedicated office spaces, office equipment and supplies in addition to adequate means of transportation should be made available for the environmental and social management team at the central level and most importantly on the field level. MOP PMO should ensure the allocation of sufficient budget resources to ensure availing the required resources to achieve the required tasks.

8 PUBLIC CONSULTATION RESULTS

8.1 Consultation Process:

The public consultations were carried out in the nine villages for Rehabilitation of electricity distribution grid lines on 12 and 13 of October, 2019. The public consultations included only men and the number of participants was 95 in these villages. Accordingly, a questionnaire was formatted to cover the key environmental and social aspects related to the implementation of the electrical distribution grid lines. The consultation started by providing briefs about the subproject activities, potential impacts and future benefits.

In addition to public consultation, one on one interviews were conducted on 12 and 13 of October, 2019. The formatted questionnaire was then addressed to 17 women and 47 men in the surrounding community randomly to have their opinions and thoughts regarding the rehabilitation activities.

8.2 Consultation Results:

All participants in these nine villages mentioned that the electrical distribution grid lines are damaged and the rehabilitation of these grid lines is a priority for them. Additionally, the participants from these villages agreed that, the rehabilitation of these electrical grid lines will have a positive impact on their social daily life. Please refer to annex 1 for public consultation photos, annex 2 for sample of public consultations in Al Aksheh Village and annex 3 for sample of individual interviews for both men and women.

The full list of participants for public consultations and individual interviews are attached in standalone document to reduce the size of the instrument.

As per the questionnaire prepared for individual interview, the below are the main findings.

- 1) All interviewed locals agreed that the rehabilitation activities of electrical distribution grid lines will serve all the people in the village and have a strong positive impact from the social perspectives on the locals. Moreover, one of the tribe's head confirms that the rehabilitation of electrical grid line is a priority to the village's people.
- 2) No claims from any locals were recorded or alleged regarding the ownership of the land were the electrical grid lines are constructed; all agreed that is governmental land property.
- 3) The project will contribute to strength the health awareness by avoiding the purchase of cold water which might be not sterilized in the summer, and keeping food and medicine in cool places to prevent the damage of these materials.
- 4) The project will contribute to increase the cultural and scientific awareness of the village residents by creating an opportunity for village students to perform their homework regularly and well.
- 5) They welcomed that there will be a hot line to express their suggestion or concern that might happen during the rehabilitation phase.
- 6) No vegetation covers, crops, plants, trees...etc. will be removed in order to execute the rehabilitation activities of the electrical grid lines.

- 7) The interests of the locals will not be affected in any way by the rehabilitation activities.
- 8) No infrastructure within the electrical grid lines area will be affected negatively due the reconstruction activities and there is no need for alternative roads.
- 9) No deportation, dislocation of any of the local community will be needed due to these activities.
- 10) The rehabilitation of the project will enhance the social relationship among the locals; improve their achievements and performance via the availability of electricity.

9 GRIEVANCE REDRESS MECHANISM (GRM)

The SFD is in the process of establishing a free hotline and is expected to be functioning within the next few months. SFD is planning to set up a digital system with multichannels for receiving complaints, inquiries, feedbacks or comments like WhatsApp, Facebook, email and complain boxes for each subproject's site. Additionally, focal points will be assigned at local level and central level to be in charge of handling complaints.

Meanwhile, in order to comply with the WB requirements, SFD has temporary assigned three staffs as focal points with their cell phone numbers to be disseminated at each local level for receiving calls and handling complaints. The contact details will be posted at subproject signboard and the complaint boxes will be installed in each location as shown in the below table.

Job Title Name Phone Number E-mail SFD Team 1 Kabil Hmood Abas 07812542417 Muth_planning@yahoo.com leader Mohammed Thamer 07803008372 GRM officer Muth_planning@yahoo.com Fitan Yaser Mohammed M&E officer 07812542417 Muth_planning@yahoo.com Sehood

Table 9: Contact Information for GRM

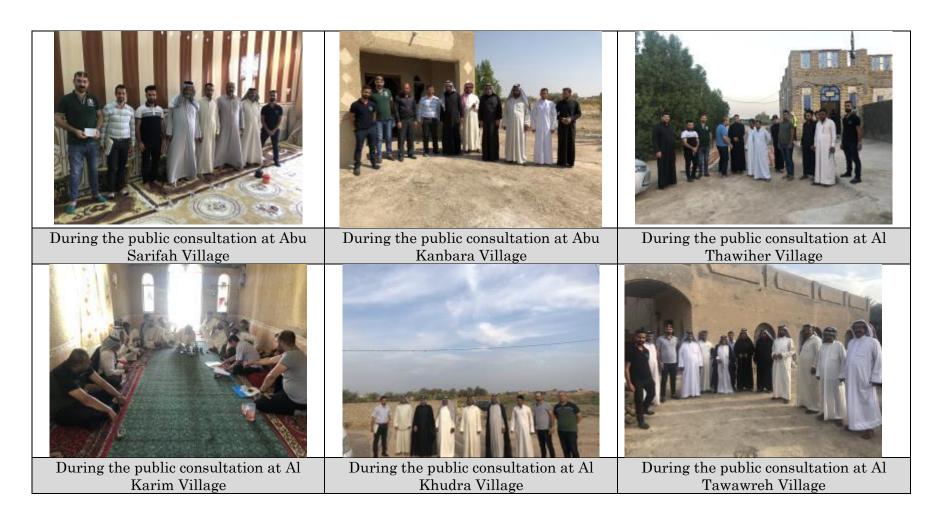
The process of managing complaints will be as follows:

- 1- Complaints should be sorted out according to complexity;
- 2- Simple inquiries should be resolved on the spot by concerned staff members in 3-6 working days as a maximum and should be documented and archived as per the relevant procedure;
- 3- Complex issues should be investigated and communicated with higher management for final decisions within a timeframe of 20 working days as a maximum;
- 4- After the completion of the proceedings, the complaint is closed, and information is included in the system, including the action(s) taken and the result(s) required; and
- 5- The complainant shall be notified of the result and the action taken immediately and shall be informed of the possibility of objecting to the procedure.

In addition to Project Management Office (PMO) at the Ministry of Planning (MOP), and the project offices in governorate, and Community Development Groups (CDGs) at the local level, the World Bank's Grievance Redress System (GRS) can also be approached by any impacted person(s) for reporting and resolving issues.

10 ANNEXES

10.1 Annex (1): Public Consultations Photos





During the public consultation at Al Aksheh Village



During the public consultation at Finjan Al Thaher Village



During the public consultation at Dibis Village

10.2 Annex (2): Sample of Public Consultation at Al Aksheh Village

تقرير فريق الاجراءات البينية والاجتماعية محافظة المثنى / قرية العكشة

مشروع (تأهيل الشبكة الكهربانية وقك اختفاق في قرية العكشة)

وصف العشروع : تجهيز ونصب محولات عدد 6 مع كافة متحقاتها واعدة كهرباء عدد / 80 واسلاك وقابلوات كهرباء باطوال مختلة وكل مايتطليه العل من مواد واجور عمل .

محضر إجتماع المشروع

- ان المشروع سيساهم في تحسين الواقع الاجتماعي والاقتصادي للقرية من خلال توفير خدمة الكيرباء الى مساكن القرية ونقليل الاعياء الاقتصادية على كاهل سكان القرية بالاضافة الى تتشيط الواقع الزراعي ومساعدة القلاحين على أداء دورهم في زيادة انتاج المحاصيل الزراعية من خلال توفير الطاقة الكيريائية اللازمة لتشغيل المضخات الزراعية وإيصال الماء الى اراضى القلاحين بصورة مناسبة.
- بين الشيخ (سلام عبد الزهرة) رئيس اللجنة المجتمعية حضور اللجنة اثناء عملية الكشف الموقعي وان المشروع هو اولوية اولى بالنسبة للقرية واكنت اللجنة عدم وجود اي تعارضات للمشروع المذكور الغا كونه سينفذ على اراضي خضعت للنفع العام وخالية من اي بني تحتية قد يسبب المشروع اي ضرر لها .
 - إن المشروع يخدم جميع سكان القرية دون استثناء .
- 4. المشروع لا يحتاج الى انشاء طرق بديلة حيث إنه لا يؤدي الى غلق أي طرق داخل الغرية .
- 5. لا يؤثر المشروع على الحياة البرية او البينة الحيوية المحيطة بموقع المشروع وكذلك لا يؤدي الى قطع الاشجار او رفع المزروعات و لايودي الى تغيير ديموغرافية المنطقة، رغم ذلك نؤكد على ضرورة الالمئزلم بجميع الاجراءات الوقائية البينية الثاء تنفيذ المشروع.
- رحبت اللَّجنة المجتمعية للقرية بوجود خطّ ساخن للمشروع مع الادارة التنفيذية للصندوق في حال حصول اي عارض.
- 7. المشروع لايوثر على الحياة الاقتصادية للمنطقة حيث لا توجد بالقرب من المشروع اي اعمال تجارية ستتوقف بل العكس تماما حيث ان توفير التيار الكهربائي المستقر سيؤدي الى انعاش اقتصاد المنطقة
- لا يوجد تجاوزات على أرض المشروع وكذلك إن المشروع لا يحتاج الى استملاكات أو تعويضات.
- و. وجهت اللجنة المجتمعية شكر ها للقانمين على المشروع لما له من اهمية كبرى في تسهيل حياة المواطنين اليومية .
- 10. ليس للمشروع اي اثار اجتماعية سلبية بل العكس فإن المشروع سيودي إلى زيادة التواصل بين اهالي الغير الله يقال الإعباء اليومية الدائية عن عدم توفر التيار الكيرباني المنتظم .

- 11. اكنت اللجنة المجتمعية على دعمها الكامل للمشروع و تقديم اي مساعدة ممكنة القانمين على المشروع الناء تنفيذ.
- اكنت اللجنة المجتمعية أن المشروع لا يودي الى اعادة توطين اشخاص اوالاضرار باي مواطن بل العكس .
- 13. المشروع سيساهم في زيادة الوعي الثقافي و العلمي لسكان الفرية من خلال الجاد الفرصة لطلاب الغرية من اداء فروضهم الدراسية بشكل منتظم و جيد
- 14. المشروع سيساهم في تعزيز الجانب الصحي ايضا و ذلك من خلال تجنب شراء العاء البارد غير المعقم صيفا و حفظ الطعام و النواء في اماكن مبردة تمنع تلف تلك العواد و غيرها من مردودات صحية .
- 15. بالرغم من كون التأثيرات البيئية الهذا المشروع قليلة جدا و محدودة الا اننا نؤك على ضرورة التخذ جميع الاجراءات الوقائية البيئية المخصصة لهكنا نوع من المشاريع خدمة لاهالى الفرية ...
- 16. لا يوجد متضررين سلبا من المشروع ولا يؤدي الى تغييرات ديموغرافية للنسيج الاجتماعي.
 17. تم مناقشة اهالي القرية بجميع تفاصيل العمل بالمشروع و الاجابة عن كافة اسالتهم و استفساراتهم اضافة الى الاستعلام منهم عن المشاكل التي تعاني منها القرية و بين الاهالي ان المشروع سيساع على الجد الحل الناجع لاحدى اهم مشاكل القرية
 - نرفق طيأ صور لعنطقة المشروع واللجنة المجتمعية مطبوعة على (CD).
 - 19. نرفق طيا استمارات الاستبيان للمشروع عند (10).

خطالعرض	خط الطول
N 31° 40′ 4.35″	E 45° 1′ 17.23′′
N 31° 40′ 0.81″	E 45° 1′ 12.88′′

عرفع	No.	تسلن
90	ملام عدالزهره/رئيواللي	-1
work of	عين مسى / عمداللجد	-0
3	ربإض همزة /عضد اللحنه	-4
Sugar	صادكا عبدهمزه	- 5
(m)	حيدر نايت	-0
as	لفي عصيه	-7
-d-	صادي وافل / علمقة اللحن	- 4
25.	عال عدالامير / عقد المورّ	-1
1	رًا حرجسين / عصد اللحن	-4
- Alexander	خفر عبدا لحسن الحصر اللمن	٠,
690	قا لد عطیت	-11
Sor	١ هور هسس طيس / عفراللحنه	- W
- 18	مِبرعات خفير	-14

Annex (3): Sample individual interviews for both men and women

	ش	957	عراق المراق	, and	U
بجارية من	نعم	كلا الملاحضات	للول ا	تعم	Chinadal 35
المناطق	1		ل تعلقا أن عملية أعمار المشروع ثها اثار ايجليبة من الحرة الاجتماعية بالنمية المكان القطلين في المتاطق	V	
ل السكان	-	-	توبية من المشروع. ل هناك ادعاءات او مطالبات من قبل السكان		
ع؟ يات رفع	\vdash		محلبين بعالتية الارض البقام عليها المشروع؟		
باتي تعود	1	/	سبب اعمال الاعمار ، فل هذالك عطيات رفع معاصيل زراعية او النجار او اي غطاء نيالي تعود		N
لقرب من			بالتبيّة أمو أطلقين أو السكان المحلبين؟ ال تضررت مصالح المواطنين القاطنين بالقرب مز		
عب دورا			ليث و و سب اعمال الأعمار ا	1 1	
ن سنتاثر	1		ش هَنْكُ اي بنى تحتية دامية او مؤلقة تلعب دور ساسيا في التشاطات الحيورية اليومية السكان ستثاثر		6
باجراءات	+		معلية اعدار المشروع! فل ان اعمال اعمار المشروع ستنسبب باجراءات		
951 <u>1</u> 15	1		عادة توطين لشخص او لاشخاس الى مناطق جديدة؟		0
من قبل وم	1	15	مل ثمت عملية استخدام ارض المشروع من قط السكان المحلمين، علما ان الارض تابعة للمولة؟		1
بالمنطقة			هل تتوقع وجود تاثيرات اجتماعية سلبية بالسلطة		\
ي السرج		1	تيجة اعمال المشروع؟ على هنك تغيير ديموغرافي او ضرر في النمن		\
ع لوضيع	+		الاجتماعي نشيجة عمليات الاعمار؟ على يجتاح المواطنون الفريبون من المشروع لوض		
الاسان؟	1		من يجوع عمو مسوى علامات تحذيرية او استدلالات لزيادة محالات الأمان!		

	الها: ريديد	and the same	1921	
-	السؤال هل تعلق ان عملية أعمار المشروع لمها اثار اليجابية من	نعم	24	الملاحضات
3	الناحية الاجتماعية بالنسبة للسكان القاطنين في المناطق القريبة من المشروع.	1		
*	هل هذاتك ادعاءات او مطالبات من قبل السكان المحليين بعائدية الأرض المقام عليها المشروع؟		-	
	بسبب اعدال الاعدار ، هل هذلك عدليات رفع لمحاصيل زراعية أو اشجار أو أي غطاء نبائي تعود عاتبيته لمواطنين أو السكان المحلين؟	-		
*	هل تضررت مصالح المواطنين القاطنين بالقرب من المشروع بسبب اعمال الاعمار؟		1	
	هل هذاك اي بلى تحقية دائمية أو مؤقنة تلعب دورا اساسيا في الشاطات الحبوية اليوسية للسكان ستتاثر بعملية اعمار المشروع؟		1	
-	هل أن أعمال أعمار المشروع ستنسبب باجراءات أعادة توطين لشخص أو الاشخاص الى مناطق جديدة؟			
Y	هل ثمت عملية استخدام ارض المشروع من قبل السكان المحليين، علما ان الارض تابعة للدولة؟	-	1	
A	هل تتوقع وجود تاثيرات أجتماعية سلبية بالمنطقة نتيجة اعمل المشروع؟			
3	هل هلك تغيير نيموغرافي او ضرر في النسيج الاجتماعي نتيجة عمليات الاعمار؟		6	
1	هل يحتاج المواطنون القريبون من المشروع لوضيع علامات تحذيرية او استدلالات لزيادة محدلات الامان؟	-		