REPUBLIC OF IRAQ

MINISTRY OF PLANNING

Iraq "Social Fund for Development" Project (SFDP)

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

FOR THE
CONSTRUCTION OF 1.35KM OVERHEAD ELECTRICITY
11KV DISTRIBUTION LINE
IN KAH LAKA VILLAGE

IN DUHOK GOVERNORATE

28TH FEBRUARY 2020

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Lis	st of Abbreviations	
CDC	Gs Community Development Groups	
ESN	MP Environmental and Social Management Plan	
EHS	· · · · · · · · · · · · · · · · · · ·	
EM	9	
ESN	<u> </u>	
GIII GOI	· · · · · · · · · · · · · · · · · · ·	
GRI	1	
GBV		
MO		
MO	·	
MS	DS Material Safety Data Sheets	
	VMP Medical Waste Management Plan	
OP	Operational Policy	
PAI	· ·	
PMO	·	
PPE RE	E Personal Protective Equipment Resident Engineer	
SFI		
TOI	<u> </u>	
WB		
WH		

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 construction of electricity distribution line for Kah Laka in Duhok governorate. The subproject is 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	The subproject consists of the construction of (1.35KM length) overhead electrical distribution line for Kah Laka village in Duhok governorate. The construction of electrical distribution line will need about 20-25 worker per day. Workers are expected to be hired locally, however if a construction camp is deemed necessary, it will be installed on vacant state-owned land. Also, equipment and construction materials will be stored on vacant state-owned land. The anticipated duration of all works is around 30 days including mobilization and demobilization of contractors. Works for construction of electrical distribution line Duhok Governorate will include installing 30 poles (9-11m in height) with all the associated fittings and overhead cables. The work will also comprise of some civil works 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.			
ENVIRONMENTAL AND SOCIAL BASELINE CONDITIONS	Climate Air quality Land	The warmest month of the year is July, with an average temperature of 31.9 °C precipitation falls in February; Rainfall averages 616 mm yearly. The ambient air quality is within normal range. No additional land for the work is needed to proceed with these roads.		
	Biodiversity Culture heritage	that might be affected) in the vicinity The sites adjacent areas do not includ		
POLICY AND		Applicable Iraqi laws	Applicable WB Policies	

LEAGAL FRAMEWORK	 Law no. 37 of 2008 Institutional arrangements for the Ministry of Environment Law no. 27 of 2009 New Environmental Framework Regulations no. 2 of 2001 Preserving water resources Law No.3 issued in 1997 for environmental protection Law No. (55) Issued in 2002 Law of heritage and antiques Law No. 37 of 2015 labor law 	 OP 4.01 Environmental Assessment OP 4.12 Involuntary Resettlement OP 4.11 Physical and Cultural Resources WBG General Environmental, Health, and Safety guideline WBG Environmental, Health, and Safety guideline for power Transmission and distribution Grievance Redress Service (GRS) 		
	Environmental Receptor	Impact Significance		
	Air Quality	Medium		
	Noise	Medium		
	Water Resources Soil	Low Low		
	Solid and hazardous wastes	Low		
ENVIRONMENTAL	Flora & Fauna	Not significant		
AND SOCIAL	Topography and landforms	Not significant		
IMPACT ANALYSIS	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 CONSULTATION RESULTS	Two modalities of consultations were carried out for this subp with men only due to the tribes' habit where 16 particip interviews with both men and women to have their views and The number of individuals interviewed was 4 women and 12 n	ants attended. The second approach was one-to-one concerns of potential impacts during implementation.		
GRIEVANCE REDRESS MECHANISM	The SFD started procurement process with one of the information technology companies in the process of establishing a free hotline. The company will submit initial report describe the (MIS, Website and the GRM system) next week. 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 near each subproject's site for receiving calls and handling complaints. The contact details will be posted at site signboard and the complaint boxes will be installed in each 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 line to the village in **Duhok** 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 construction of electrical distribution line located in the Governorate of Duhok Northeast of Iraq. The construction of electrical distribution line on Duhok Governorate will include installing poles with all the associated fittings and overhead cables. 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. This distribution line will serve Kah Laka Village and then Mahadi village within Duhok governorate. Please refer to the below figure for the location of the Kah laka village that need the electrical Distribution line.



Figure 1 Village and the proposed Electrical Distribution line Google map

2.1 Objective of the Construction Works

The objective of the subproject is to construct the above-mentioned electrical distribution 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.

2.2 Scope of Work

Works for construction of the electrical distribution lines in Duhok Governorate will include installing pole-mounted with all the associated fittings and overhead cables. The work will also comprise of some civil works activities 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 distribution line will receive the power from a feeder which is connected to an existing sub-transmission line that is connected to transmission substation. The power will be evacuated to an existing transmission line that provide electricity to Kah Laka village and then to Mahadi village. The total length of the distribution line (11 KVA) will be about **1350 m**. It will consist of 30 poles (12 Circular poles + 18 Truss poles) and these poles carry three cables. The poles will be installed on the side of the road that lead to Kah Laka village and then to Mahadi village. Along this 1350m, there is no residential houses. This electrical overhead line will link between an existing transmission line and the line that distribute the electricity to the village

The anticipated duration of construction works is 30 days with about 20-25 workers per day 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 construction phase. Setup of a camp (if needed) in the area near the electrical distribution line will be on vacant state-owned lands. Also storage of equipment and construction materials will be on vacant state-owned lands, however, the temporary use of land will not cause any impact. The construction is expected to take place by delivering 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 Duhok which is the northernmost governorate of Iraq, Duhok borders Turkey and shares internal boundaries with the governorates of Ninawa and Erbil (as shown in figure 2 below). The proposed location of this electrical distribution lines will be in an area from flat to some hills and valleys which is located on the side road (from Deralok to Kah laka and Mahadi). It is important to mention that this line connect between 2 villages and therefore that most of it's path is free from building, houses, and any other receptors (about 5m). The area adjacent to the project site is characterized as rural residential to agricultural in some area.

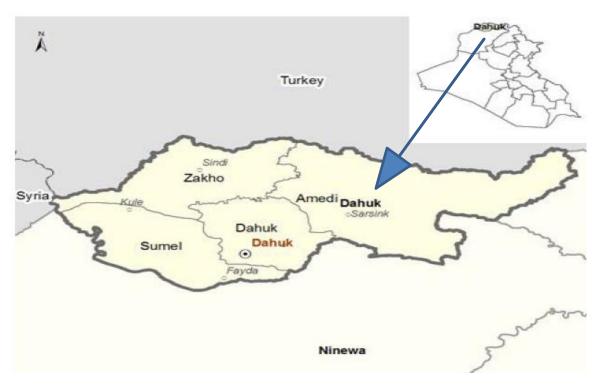


Figure 2 Map of Iraq on the right and Duhok governorate on the left.

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 location prior to commencement of works.

3.2.1 Climate

Duhok governorate is located in the northern part of Iraq. Duhok governorate's terrain mostly consists of mountain slopes, hills and valleys. The climate of Dohuk governorate is comparable to that of surrounding regions, with hot and dry summers and mild winters. The average temperature in Duhok is 18.5 °C. The warmest month of the year is July, with an average temperature of 31.9 °C. Most precipitation falls in February; Rainfall averages 616 mm yearly and is limited to the winter months.

3.2.2 Air Quality

The subproject sites are located in open areas, so the expected concentration of air pollutants is 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

The areas close to the subproject have some mountains, cliffs, and valleys. There are no protected areas or endangered species

3.2.4 Biodiversity

There is no critical or high biodiversity value that might be affected in the vicinity of the sites (Gara Mountain and Garagu area which is Important Bird Areas and it is more than 4 Km from the village). There are no close sensitive receptors located to the subprojects site for more than 4Km as shown in the figure below.



Figure 3 location of sensitive area from the electrical distribution line (http://datazone.birdlife.org/country/iraq/ibas).

3.2.5 Land use

The land use in the surrounding areas of the proposed electrical distribution line is described as flat area with some hills and valleys and vacant lands. There are few natural trees found close to electrical distribution line sites but not expected to be impacted during implementation.

3.2.6 Flooding

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

3.2.7 Noise

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

3.2.8 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 construction activities.

3.2.9 Traffic Level

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

3.2.10 Land acquisition

The construction activities of electrical distribution lines will be built on stateowned 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.

3.2.11 Social Aspects

The population of village is about 700 people. There are no close residential complexes or community structures in close proximity to this subproject. All the areas around and within the site 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.

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.

Law no. 37 of 2008 for

Ministry of 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

Regulations no. 2 of 2002

Law no Subject

Describes institutional arrangements of the Ministry of Environment and responsibilities toward protecting the environment.

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

Labor Law Labor codes, general labor and employment acts

Table 1: Applicable Laws and Regulations in Iraq

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.
- 4.2.2 OP/BP4.12 Involuntary Resettlement
- 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

Law No. 37 of 2015.

This section of the report describes the environmental and social impacts that are likely to result from the construction of this subproject, 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 and the World Bank.

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 2: 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 3: Mitigation Measures during Construction Phase.

	Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated Cost in US\$
		 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
1	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
3	Water resources	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

	Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated Cost in US\$
		• 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; It must be prohibited to operate equipment and vehicles outside the designated work areas and roads.	Contractor	Resident engineer	Included in contractor cost
		• No hazardous waste storage to take place directly on soils. Appropriate and enclosed containers should be utilized.	Contractor	Resident 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. Allocate and prepare areas for temporary storage of scrap. 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 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. 	Contractor	Resident engineer in coordination with the local authority and ministry of science and technology regarding hazardous wastes	1000
6	Flora & Fauna	Not Applicable	Not Applicable	Not Applicable	Not Applicable

	Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated Cost in US\$
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
	Health and Safety	 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		 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 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	1500
		 compliance with international standards for good construction practices; adherence to local and international guidance and codes of practice on EHS management during construction; implementation of EHS procedures as a condition of contract with contractors and their sub-contractors; pre-construction assessment of the EHS risks and hazards associated with construction and operation, including consideration of local cultural attitudes, education level of workforce and local work practices; 	Contractor	Resident engineer	Included in contractor cost

	Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated Cost in US\$
		 provision of appropriate training on EHS issues for all construction and operation workers, including initial induction and regular refresher training, taking into account local cultural issues; provision of health and safety information; 			
		 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; To protect workers from electrocution hazards, it should be achieved via: Maintain safe distance from overhead power lines, Inspect portable tools and extension cords, Use power tools and equipment as designed, Ensure power tools are maintained in safe condition, Isolate electrical parts. 	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. To ensure worker safety, health insurance must be provided to all type of workers 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
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

	Receptor	Mitigation Measures	Responsibility	_	Total estimated Cost in US\$
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 4: Mitigation Measures during Operation Phase.

	Receptor	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	• Vibration or humming noise can be noticeable and is most often associated with older electrical grid lines. It is usually the result of conductor mounting hardware that has 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	Local authorities	No Cost
3	Water resources	Not applicable	Not applicable	Not applicable	Not applicable
4	Soil	Not applicable	Not applicable	Not applicable	Not applicable
อ	Solid & hazardous	• During the operational period, some littering and waste generation resulting from the repair activities might occur. Littering may occur due to wind action.	Local Authority (Municipality)	Local authority	Within municipal

	Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated
	wastes			(Municipality)	budget
6		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
9	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, particularly during commissioning Ensuring that live-wire work is conducted by trained workers with strict adherence to specific safety and insulation standards. Qualified or trained employees working on transmission or distribution systems should be able to achieve the following: 1-Distinguish live parts from other parts of the electrical system 2- Determine the voltage of live parts 3- Understand the minimum approach distances outlined for specific live line voltages 4- Ensure proper use of special safety equipment and procedures when working near or on exposed energized parts of an electrical system. Workers should not approach an exposed energized or conductive part even if properly 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 undertak	Local authorities	Local authorities	No cost

]	Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated
		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;			
		• 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.			
	Child labor			Local	
	and Gender	± •	Local authorities	authorities	No Cost
	Based	• The Local authorities will be responsible to keep a copy of IDs of laborers in order to		440110110100	

Receptor	Mitigation Measures	Responsibility	Supervision	Total estimated
Violence	 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 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. 			
	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 with clear job description to understand the roles and responsibility at the central level. On the field level, PMO nominated two engineers in Duhok 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 5: Monitoring Activities during Construction Phase.

Rece	eptor	Monitoring Activities	Monitoring Indicators	Frequency	Responsibility	Supervision	Total estimated Cost in US\$
1	Air quality	workers and residents	 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	РМО	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	PMO	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	РМО	No cost
6	Health and safety	 Ensure compliance of workers to Health and Safety requirements Maintain log on accidents. To ensure worker safety, health insurance must be provided to all 	Observation report Accidents report	Weekly	Resident Engineer	РМО	No cost

Rece	ptor	Monitoring Activities	Monitoring Indicators	Frequency	Responsibility	Supervision	Total estimated Cost in US\$
		types of workers					
7	Flora & Fauna	Record any observation about wild animals or plants on site or nearby and report to the Environmental Authority	Observation report	Upon occurrence	Resident Engineer	РМО	No cost
	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
	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	 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	РМО	No cost
		Total co	ost US\$ (Operation phase)				2,000

Table 6: Monitoring Activities during Operation Phase

R	eceptor	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		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	and quantitiesObserve any waste accumulation	 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 To ensure worker safety, health insurance must be provided to all types of workers 	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	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. 	Weekly	Resident Engineer	Local authorities	No cost
		Total cos	st 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 7: 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 11 and 12 of November, 2019. The public consultations included only men and the number of participants was 16 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 11 and 12 of November, 2019. The formatted questionnaire was then addressed to 4 women and 12 men in the surrounding community randomly to have their opinions and thoughts regarding the rehabilitation activities.

8.2 Consultation Results:

All participants in the village mentioned that the electrical distribution line is a priority for them. Additionally, the participants from the village agreed that, the construction of the electrical distribution line will have a positive impact on their social daily life. Please refer to annex 1 for public consultation photos, annex 2 for public consultations in Kah Laka 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 construction activities of electrical distribution line will serve all the people in the village and have a strong positive impact from the social perspectives on the locals. Moreover, the head of the social committee confirms that the construction of electrical distribution 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 where the electrical distribution line is constructed; all agreed that is governmental land property.
- 3) The project will contribute to strength the health awareness by providing the health services.
- 4) No vegetation covers, crops, plants, trees...etc. will be removed in order to execute the construction activities of the electrical grid lines.
- 5) 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.
- 6) They welcomed that there will be a hotline to express their suggestion or concern that might happen during the rehabilitation phase.
- 7) No infrastructure within the electrical distribution line area will be affected negatively due the construction activities and there is no need for alternative roads.

- 8) The interests of the locals will not be affected in any way by the rehabilitation activities.
- 9) The rehabilitation of the project will enhance the social relationship among the locals; improve their achievements and performance via the availability of electricity.
- 10) No deportation, dislocation of any of the local community will be needed due to these activities.

9 GRIEVANCE REDRESS MECHANISM (GRM)

The SFD started procurement process with one of the information technology companies in the process of establishing a free hotline. The company will submit initial report describe the (MIS, Website and the GRM system) next week. SFD is planning to set up a digital system with multi-channels 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. It is important to mention that the complaints can be raised and addressed even from anonymous person(s). 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.

Phone Number Name Job Title E-mail Hezar Rashad IT Engineer 07504745787 hezar de@vahoo.com Muhammed Dilshad Khalid Engineer 07504799313 hezar_de@yahoo.com Muheey Aseel Hazim Hirmiz Engineer 07504461160 hezar de@yahoo.com

Table 8: Contact Information for GRM

Significantly, the GRM classifies feedback in two categories high-level and standard, each has its own procedure as explained further below.

High-Level Feedback

Feedback received to be categorized as 'high' level instances will include issues that meet the following criteria:

- Incidents that caused or may potentially cause significant or great harm to the environment, workers, communities, or natural resources, including issues of gender-based violence;
- Incidents which entail failure to implement environmental and social measures with significant impacts or repeated non-compliance with E&S policies;
- Incidents for which failure to address may potentially cause significant impacts that are complex and/or costly to reverse; and
- Incidents that may result in fatality or some level of lasting damage or injury.

The process of managing complaints will be as follows:

This type of feedback will be acknowledged, and an investigation will be launched by the PCU/PMO and any other relevant stakeholders with 24 hours during work days and within 48 hours if the feedback was received over the weekend. It should be noted that some types of incidents, including accidents and fatalities need to be reported to the World Bank. This guidance is provided in the Environment & Social Incident Response Procedures.

- 1- Standard- Level Feedback
- 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.
- 6- Individuals who submit their comments or grievances have the right to request that their name be kept confidential. An anonymous complaint can receive a code and should be investigated appropriately and treated courteously.

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. Lastly, if the aggrieved person is still not satisfied with the solution provided, s/he has the option to go to court.

10 ANNEXES

10.1 Annex (1): Public Consultations Photo



During the public consultation at Kah Laka Village

10.2 Annex (2): Public Consultation at Kah Laka Village

تقرير فريق الإجراءات البينية والاجتماعية

محافظة دهوك /ديرالوك / قرى (كه لكا , مهيدى)

مشروع (ربط خط کهرباء قری (که لکا , مهیدی) علی فیدر برجی ۱۱ (kv)

وصف المشروع : ينضمن العمل تجهيز ونصب أعمدة ارتفاع ۱۱ م عدد ۱۲ عامود (ض.ع) مشبك بالإضافة إلى ۱۸ عامود (ض.ع) مدور مع قابلو ۲.۱ kv ۱۱ ملم) بطول ٥٠ كم مع ملك المنبوم بطول ٥٩٥٥ م وسلك نحاسى ٢٤ م بأحجام مختلفة .

محضر إجتماع المشروع

- ا. إن المشروع سيساهم في تحسين الواقع الاجتماعي والاقتصادي للقرى من خلال تحسين خدمة الطاقة الكهربائية المجهزة إلى قرى (كه لكا و مهيدي) وتقليل الإعباء الاقتصادية عن كاهل السكان وبالتالي إنعاش واقع القريئين الخدمي والزراعي ومساعدة الأهالي في توفير الخدمات الأخرى مثل الماء الذي يعتمد على تشغيل المضخات الموجودة بجوار الآماد.
- بين رئيس اللجنة المجتمعية حضور ممثلي اللجنة اثناء عملية الكشف الموقعي وإن المشروع هو اولوية بالنسبة للقرى واكدت اللجنة عدم وجود تعارضات للمشروع كما وإن المشروع لا يسبب الضرر بأي بني تحتية موجودة في القريتين.
 - ٣. إن المشروع يخدم جميع سكان القريتين دون استثناء .
- المشروع لا يحتاج الى انشاء طرق بديلة حيث إنه لا يؤدي الى غلق أي طرق داخل القرى .
- لا يؤثر المشروع على البيئة الحيوية المحيطة به والحياة البرية ويلا يؤدي الى قطع الاشجار ورغم ذلك نؤكد على ضرورة الالتزام بجميع الاجراءات الوقائية البيئية اثناء تنفيذ المشروع.
- آ. طالبت اللجنة المجتمعية للقرى بوجود خط ساخن للمشروع مع الادارة التنفيذية للصندوق في حال حصول اي عارض.
- ٧. المشروع لأيوثر على الحياة الاقتصادية للمنطقة حيث لا توجد بالقرب من المشروع اي اعمال تجارية ستتوقف بل العكس تماما حيث ان توفير الطاقة الكهربائية سيؤدي الى انعاش الوضع الاقتصادي لسكان القرى .
- ٨. لا يوجد تعارضات أو تجاوزات على أرض المشروع وكذلك إن المشروع لا يحتاج الى
 استملاكات أو تعويضات.
- وجهت اللجنة المجتمعية شكرها للقانمين على المشروع لما له من اهمية كبرى في تسهيل حياة المواطنين اليومية.
- ١. ليس للمشروع اي اثار اجتماعية سلبية بل العكس فان المشروع سيؤدي الى زيادة التواصل بين اهالي القرى مما يؤدي الى زيادة التماسك و الترابط العائلي من خلال تقليل الاعباء اليومية الناتجة عن عدم توفر التيار الكهربائي المنتظم.

١١. اكدت اللجنة المجتمعية على دعمها الكامل للمشروع وتقديم اي مساعدة ممكنة للقائمين على المشروع اثناء تنفيذه.

- اكدت اللجنة المجتمعية أن المشروع لا يؤدي الى اعادة توطين اشخاص اوالاضرار باى مواطن بل العكس.
- ١٢. المشروع سيساهم في زيادة الوعي الثقافي والعلمي لسكان القرية من خلال بيئة ملائمة لمز اولة الحياة اليومية وإيجاد الفرص لطلاب القرى لأداء فروضهم الدراسية بشكل منتظم وجيد.
- ١٤ المشروع سيساهم في تعزيز الجانب الصحي ايضا و ذلك من خلال توفير الخدمات الصحية بشكل منتظم و تشغيل المؤسسات الصحية .
- ١٥. تم مناقشة أهالي القريتين بجميع تفاصيل العمل بالمشروع والإجابة عن كافة أسالتهم واستفساراتهم إضافة إلى الاستعلام منهم عن المشاكل التي تعاني منها القريتين حيث بين الأهالي أن المشروع سيساعد على إيجاد الحل الناجح لإحدى أهم مشاكل القريتين.
- ١٦. أبدت حكومة دموك عدم ممانعتها من تنفيذ المشروع وخلك أعضاء مجالس القرى لكون المشروع نو أهمية كبيرة في تحسين الواقع الخدمي للقرى المستهدفة
 - ١٧. نرفق طياً صور لمنطقة المشروع واللجنة المجتمعية مطبوعة على (CD).
 - ١٨. نرفق طيا استمارات الاستبيان للمشروع عدد (١٢).
 - ١٩. مواقع GPS للمشروع و في القريتين التي سينفذ فيها المشروع.

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

	(استبیان)		
	اسم المشروع: ربط مقد كارا، ورز محم الما وجهد ك	東東東	(اُستبیان)
	الاسم: هما فين عسما ن عدالتا در	「	سم المشروع: رجع طف کهرا، خری (که لکا ، حربیری) کا
	الجنس: ذكر 🗆 انثى	展展	لاسم: عارس عبدالحليل
	المهنة:	X X	الجنس: ذكر 🗇 انثى 🗆
كلا الملاحظات	ت السوال تعم		لمهنة: معام
	هل تعتقد ان عملية أعمار المشروع لها اثار ايجابية من	画	
	ا الناحية الاجتماعية بالنسبة للسكان القاطنين في المناطق	الملاحظات	السؤال نعم كلا هل تعتقد ان عملية أعمار المشروع لها اثار ايجابية من
	القريبة من المشروع. ب هل هنالك ادعاءات او مطالبات من قبل السكان	富	الناحية الاجتماعية بالنسبة للسكان القاطنين في المناطق
	المحليين بعاندية الارض المقام عليها المشروع؟		القريبة من المشروع. هل هذالك ادعاءات او مطالبات من قبل السكان
	بسبب اعمال الاعمار ، هل هنالك عمليات رفع المحاصيل زراعية او اشجار او اي غطاء نباتي تعود	E	المحليين بعاندية الارض المقام عليها المشروع؟
	عانديته لمواطنين أو السكان المحليين؟	T T	بسبب اعمال الاعمار ، هل هنالك عمليات رفع المحاصيل زراعية او اشجار او اي غطاء نباتي تعود
	ع هل تضررت مصالح المواطنين القاطنين بالقرب من	東東	عائديته لمواطنين او السكان المحليين؟
	المشروع بسبب اعمال الاعمار؟ هل هنالك اي بنى تحتية دانمية او مؤقتة تلعب دورا	五	هل تضررت مصالح المواطنين القاطنين بالقرب من
	٥ اساسيا في النشاطات الحيوية اليومية للسكان ستتاثر		المشروع بسبب اعمال الاعمار؟ هل هنالك اي بني تحتية دائمية او مؤقتة تلعب دورا
	بعملية اعمار المشروع؟ هل ان اعمال اعمار المشروع ستتسبب باجراءات	高	اساسيا في النشاطات الحيوية اليومية للسكان ستتاثر
	اعادة توطين لشخص او لاشخاص الى مناطق جديدة؟		بعملية اعمار المشروع؟ هل ان اعمال اعمار المشروع ستتسبب باجراءات
	المشروع من قبل استخدام ارض المشروع من قبل		اعادة توطين لشخص أو الشخاص الى مناطق جديدة؟
	السكان المحليين، علما ان الارض تابعة للدولة؟		هل تمت عملية استخدام ارض المشروع من قبل السكان المحليين، علما ان الارض تابعة للدولة؟
	هل تتوقع وجود تاثيرات اجتماعية سلبية بالمنطقة المنتجة اعمال المشروع؟		هل تتوقع وجود تاثيرات اجتماعية سلبية بالمنطقة
	مل هناك تغيير ديموغرافي او ضرر في النسيج		نتيجة اعمال المشروع؟ هل هناك تغيير ديموغرافي او ضرر في النسيج
	٩ الاجتماعي نتيجة عمليات الاعمار؟	8 8	الاجتماعي نتيجة عمليات الاعمار؟
	ا لهل يحتاج المواطنون القريبون من المشروع لوضع ما علامات تحذيرية او استدلالات لزيادة معدلات الامان؟	双国民国民国民国民国民国民国民国民国民国民国民国民国民国民国民国民国民国民国民	هل يحتاج المواطنون القريبون من المشروع لوضع / علامات تحذيرية او استدلالات لزيادة معدلات الامان؟
	عرفات تحديرية ال السديدة الرياد	高 京 京 西 京	
التوقيع: ۞	*		
الاسم: حا من عمان	*	: عارس عبد الحسل	
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التاريخ: /٥/ 2019		東東	
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