REPUBLIC OF IRAQ

MINISTRY OF PLANNING

Iraq Social Fund for Development SFD (P163108)

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

FOR THE

CONSTRUCTION OF HEALTH CENTER IN THE VILLAGES (UM AL-BANEEN AL-SAHRAWIA, AL-DUKHANYA)

IN KARBALA GOVERNORATE

11 TH AUGUST 2023

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IRAQ: Social Fund for Development Project PART A: **GENERAL PROJECT AND SITE INFORMATION**

INSTITUTIONAL &	INSTITUTIONAL & ADMINISTRATIVE				
Country	IRAQ				
Project Title	CONSTRUCTION OF HEALTH CENTER IN THE VILLAGES (UM AL- Baneen Al-Sahrawia, Al-Dukhanya) \ Karbala Governorate.				
Introduction	Iraq faces a historic opportunity for national reconciliation through the effective delivery of critical social services, economic growth and recovery programs. The reinstatement of trust between the State and its citizens is highly dependent on the Government of Iraq (GOI) demonstrating its capacity to deliver security, jobs and economic growth to all Iraqis, with a focus on the poor, the vulnerable and the millions of Internally Displaced People (IDP). The GOI, represented by the Ministry of Planning (MOP), requested the World Bank's support in the design and financing of a Social Fund for Development (SFD) project to support locally driven initiatives to improve the living conditions and opportunities of the poor and most vulnerable people in Iraq. The GOI has demonstrated its commitment and support to the design of this operation and established a high-level national team to guide and coordinate the development and institutionalization of the SFD, as well as five technical teams to work on the different aspects of the fund. The Project Development Objectives (PDOs) are to: (1) Improve access to basic services and; (2) Increase short-term employment opportunities, in targeted communities. This environmental and social management checklist reflects the main issues (project description and activities, baseline conditions, impact analyses, mitigation measures and monitoring arrangements). The main objective of this document is to examine the environmental and social-				
	(both construction and operation phases), and to propose mitigation measures. The project is expected to result in significant socio-economic benefits for the local communities and surrounding areas in addition to developing social awareness and group responsibility.				

PROJECT LOCATION & SITE DESCRIPTION

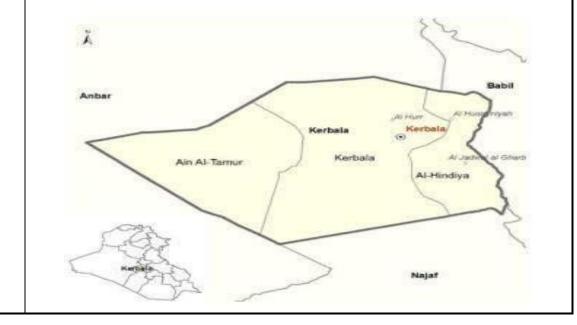
Project

Location

According to the Environmental and Social Management Framework (ESMF) which was prepared for the Iraq Social Fund for Development Project disclosed locally in Iraq and on the World Bank's website¹. Environmental and Social Management plan (ESMP)/ Environmental and Social Management Checklist should be prepared, cleared, publicly consulted and disclosed prior to the commencement of any rehabilitation activity. The World Bank Operational Policy 4.01 on Environmental Assessment was triggered as the proposed Subprojects have some potential negative environmental and social impacts. Accordingly, this Environmental and Social Management Plan is required to implement the Sub-project in accordance with the requirements of the World Bank's Operational Procedures and applicable Iraqi national legislation.

The subproject is located in the governorate of **KARBALA** which is located in central Iraq, situated on the banks of the Euphrates River, around 100 kilometers southwest of the capital, Baghdad. **KARBALA** shares internal boundaries with the governorates of Baghdad, Babil, Anbar, and Najaf (as shown in figure below).

The coordinates and the population in each village are shown in the table below:



¹<u>https://documents1.worldbank.org/curated/en/221731554372651925/pdf/Environmental-and-Social-</u> <u>Management-Framework.pdf</u>

No.	Village	Area (m ²)	Popu lation	Coordinat es	Description Activities
1	UM AL- BANEEN AL- SAHRAWIA	400	3300	32.540387, 44.095236	Construction of a health Center consists of a one-story building containing doctors' rooms, administrative rooms, dressing room, pharmacy, vaccine room, school health and health groups also Furnishing the health center with the required specialized medical equipment with furnishin
2	AL- DUKHANYA	400	3483		Construction of a health Center consists of a one-story building containing doctors' rooms, administrative rooms, dressing room, pharmacy, vaccine room, school health and health groups also Furnishing the health center with the required specialized medical equipment with furnishin
	Total	800m ²	6783		
	Note	Po	-		ere inferred through community procedures in Karbala



following activities:
The site plan is shown in the figure below. All civil work from foundation up to wall building construction are represented by:
 A) Site preparation and Earth works B) Masonry works C) Structural works which include concrete works D) Finishing works which include painting and tiling in addition to sanitary and electrical works The anticipated duration of construction works is about 240 days for the health center with about 20-25 workers per day with about 95% of them are local workers and the rest are engineers and technicians that may be from the closest area. The work will also comprise of civil works such as excavation, lifting the soil and other waste produced during the excavation, and concrete casting to prepare the foundations for the fence, as follows:
 Providing workers and all the surveying equipment required for the execution works. Conduct excavation work according to the dimensions and methodologies mentioned in the drawings with others considering the possibility of groundwater. Prepare all materials for the implementation of the weak concrete layer and then coat them with bitumen. Processing all construction materials with a number of works and workers to carry out the work of reinforced concrete. Execution casting works. All the raw materials that will be used in the construction of the health center are from an authorized quarry.

	Although most of the workers are local workers (more than 95%), however, a camp will be erected within the health center. No land related impact is expected as they will establish the camp within the boundaries of the health center. The water, wastewater, and the solid waste that will be generated from this camp will be treated properly and transferred to the authorized treatment plants or landfills.
	During operation of the health center, hazardous and nonhazardous wastes will be generated during routine operations (e.g., consumable materials and vaccinations, dental materials, and cleaning agents). Therefore, the impact from these wastes should be according to the medical waste management plan (MWMP) which should be followed and implemented in a separate document. Also, sanitary wastewater will be generated during the operation phase of the project. Wastewater will be collected in the collection tank and then transported periodically to the nearest authorized wastewater treatment plant as there is no sewage network available in the area of these health centers.
Land Use and Acquisition	The area adjacent to the project site is characterized as a rural to agricultural area. However, the construction activities will not cause an impact on agricultural areas or cause any crop damage. The health center will be constructed on state land and hence there are no issues related to land acquisition. The implementation activities will not cause relocation of people, vendors, or any individuals. The area is free from squatters/encroachers. No involuntary resettlement or

	economic displacement are expected to take place.	
Contactor's Camp	The construction of the health center will need about 20-25 workers per day, for each site per day per day. Although most of the workers are local workers (more than 95%), however, a camp will be erected within the health center and therefore, the water, wastewater, and the solid waste that will be generated from this camp will be treated properly and transferred to the authorized treatment plants or landfills in coordination with the local municipality. The contractor will establish his storage on vacant state-owned land for equipment and material within the area close to the construction area. This will be done in coordination with the authorized entities like the municipality. The construction camp should have independent sources of water and electricity, and an adequate septic tank for sanitary effluent disposal. Due to its geographical location, an influx of workers to the subproject	
	area is not expected. Most of the workers will be locals from the surrounding area and will return to their homes.	
PROJECT BASELIN Geographic Conditions	The terrain is characterized as flat. In the project area the elevation is about 28 m asl.	
Climate, Air Quality and noise	The summers in Karbala are long, hot, and dry, with temperatures averaging around 40°C (104°F) during the day and dropping to around 25°C (77°F) at night. The hottest months are June, July, and August. Winters in Karbala are mild, with temperatures averaging around 15°C (59°F) during the day and dropping to around 5°C (41°F) at night. The coldest months are December, January, and February. Rainfall is scarce and concentrated in the winter months and averages 150 mm yearly. 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. (Annex3). Currently, there is no traffic congestion and consequently the existed noise level is within the normal levels.	

TT 1 . 1 .	Flanding of the same the surface has not have sented in the same				
Hydrogeolog	Flooding of the area near the project has not been reported in the past				
y Conditions	years.				
Ecology Conditions	The project areas do not contain any globally important habitats or ecosystems. There are no Nature Reserves or other legally protected areas in the vicinity of the project or in a close proximity.				
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.				
Socio- economic Aspects	The population of these projects area is approximately 6783. The suggested areas of the roads will be on state land, where no land or property expropriation will be necessary and is free from encroachers or squatters. All the areas around the sites remain clear of any settlement or economic use and are ready for construction works, no interference is registered from the local community which is eager for the works to be completed. It is important to mention that during the construction of the road, it is not expected to cause restriction of access or livelihood impacts. Some of the population have a degree or equivalent to Bachelor level, and some have equivalent to middle school., some of them operating small businesses and they have only a few years of basic education.				
LEGISLATION & P	OLICIES				
National & Local Legislation and World Bank Policies that Apply to the Project	 The applicable national legislation is as follows: The Law for the Protection and Improvement of Environment No. 27, 2009; Public Health Law No. 89 of 1981, amended by Resolution No.54 of 2001; Law No.3,1997 regarding to Environment protection Instructions no.3 of 2012 on National Emissions' Determinants for Activities and Businesses by the Ministry of Health and Environment. Instructions no.1 of 2015 on Medical Waste Management issued by the Ministry of Health and Environment. Instructions no. 3 of 2015 on Hazardous Waste Management issued by the Ministry of Health and Environment. Instructions No. 2 of 2014 on Environment. Instructions no. 3 of 2015 on Hazardous Waste Management issued by the Ministry of Health and Environment. Instructions No. 2 of 2014 on Environmental Protection from Municipal Waste; Instructions no. 3 of 2015 on Hazardous Waste Management; Law No. 6 of 1988 concerning the National Commission for Occupational Hygiene and Safety; 				

	▶ Instructions No. 12 of the year 2016: Occupational Health and
	Safety; ➤ Labor Law No. 37 of 2015;
	Law no. 89 of the year 1981, amended by Decree No.54 of
	2001: Public Health;
	Law No. 41 for the year of 2015: Noise Protection and Control;
	Public Roads Law No. 35 of 2002;
	Instructions No.3 of 2012: National Emissions' Determinants for Activities and Businesses by the Ministry of Health and Environment;
	 Regulation No. 4 for the year of 2012: Ambient Air Quality;
	 The main WB safeguard policies applicable for SFD are:
	 OP 4.01 Environmental Assessment
	> OP 4.12 Involuntary Resettlement (There might be a
	probability of storage of construction materials within the
	project area. Until the date of report development, no land
	acquisition is anticipated.).
	> OP 4.11 Physical and Cultural Resources (The proposed
	construction activities are not expected to pose risks of
	damaging cultural property).
	labor influx guidance note (2016). WB Concerned Environmental Health and Sofety muldeline?
	WB General Environmental, Health, and Safety guideline ² HS guidelines entails the effective methods for managing
	mental, health and safety issues in accordance with WBG
	ements. This includes understanding the likelihood, magnitude
	iority of the EHS risks. The EHS guidelines includes 4 primary
-	s and respective sub sections (applicable segments from the EHS
	nes for the sub-project are highlighted in Red):
ę	 Environmental Guidelines
	• Ambient Air Quality – Limits and Guidelines
	• Energy Conservation – Energy Conservation and
	Efficiency Methods
	 Wastewater and Ambient Water Quality – Effluent
	water quality and indicators for water discharge and
	treatment
	 Water Conservation – Methods for ensuring
	reduction in water consumption
	• Hazardous Material Management – The
	appropriate Methods for managing hazardous waste

² <u>https://www.ifc.org/wps/wcm/connect/29f5137d-6e17-4660-b1f9-02bf561935e5/Final%2B-%2BGeneral%2BEHS%2BGuidelines.pdf?MOD=AJPERES&CVID=nPtguVM</u>

	and instructions on community and worker protection
0	Waste Management – Instructions on waste
	management and planning, waste prevention and safe
	waste disposal
0	Noise – Methods for prevention and control of Noise,
	and the applicable noise limits for different activities
	and exposure period
0	Contaminated Land – Management approaches for
	contaminated land due to different hazardous
	substances or waste or oil. Includes Risk Reduction
	measures
> Occur	<u>pational Health and Safety Guidelines³</u>
	General Facility Design and Operation – ensuring
	appropriate facility integration of H&S, that integrates
	safety measures in design for different physical
	hazards
0	Communication and Training – Ensuring there is
	an appropriate level of communication between
	workers and management, and that there is sufficient
	training for all workers prior to operations
0	Physical Hazards – Methods for prevention of
	accidents or injuries that can occur due to exposure to
	mechanical or other physical works, including Noise
	and Vibrations
0	Chemical Hazards – Injuries and accidents that could
	occur due to usage of chemicals and methods of
	protection and prevention. Includes management of
	fires and explosions
0	Biological Hazards – Protection and Management of
	different biological agents
0	Radiological Hazards – Management and Limits for
	Radiation Exposure
0	PPE – Guidance on usage of PPE and clearly
	highlighting that it should be considered the last resort
0	Special Hazards Environments – Guidance on
	Managing different environments that can present a
1	

³ <u>https://www.ifc.org/wps/wcm/connect/1d19c1ab-3ef8-42d4-bd6b-</u> cb79648af3fe/2%2BOccupational%2BHealth%2Band%2BSafety.pdf?MOD=AJPERES&CVID=nPtgxyx

	risk to workers such as confined spaces.
0	Monitoring – Efficient monitoring of occupational
	health and safety programs and mitigation measures.
	This includes the Occupational Accident Reporting
	frequency
≻ <u>Comr</u>	nunity Health and Safety Guidelines ⁴
0	Water Quality and Availability – Ensuring the
	protection of nearby water resources such as
	groundwater and surface water sources.
0	Structural Safety of the Project – Potential
	Hazards that could occur due to poor design and
	methodology for dealing with those hazards. Includes
	the general approach that architects/structural
	engineers must follow to ensure community safety is
	considered during design
0	Life and Fire Safety (L&FS) – Ensuring that
	building design is in accordance with local regulations
	and requirements, and that it integrates Fire safety
	standards (more focused on buildings rather than
	infrastructure)
0	Traffic Safety – Includes the potential risks and
	impacts on traffic and from traffic that occurs due to
	the project. Includes recommend measures to deal with
	traffic risk
0	Transport of Hazardous Material – Approach and
	Guidelines for transporting hazardous material,
	including a hazard assessment and emergency
	response plan.
0	Disease Prevention – Includes the recommended
	interventions and methods to protect the community
	from communicable diseases and vector borne diseases
0	Emergency Response and Preparedness – This
Ŭ	sub section requires a plan and response system in
	place to respond to any potential emergency that could
	occur due to the works or operation
> Const	truction and Decommissioning Guidelines ⁵

⁴ <u>https://www.ifc.org/wps/wcm/connect/eeb82b4a-e9a8-4ad1-9472-</u> f1c766eb67c8/3%2BCommunity%2BHealth%2Band%2BSafety.pdf?MOD=AJPERES&CVID=nPtgxTd

	 Environment – covers the different environmental factors that could be affected by the construction activities including soil erosion, disturbance to water bodies, disturbance to air quality, wastewater discharges etc. Occupational Health and Safety – Different OHS risks due to construction or decommissioning works Community Health and Safety – Different Hazards that can occur due to the project and affect the surrounding community. Grievance Redress Service
PUBLIC CONSULT	ATION & GRIEVANCE REDRESS MECHANISMS
Public Consultation Process	 The consultations were carried out in the village for the construction of Roads on the July 2022, Group consultations were conducted with the villagers, and accordingly a questionnaire was formulated to cover the main environmental and social aspects related to the sub-project. The purpose of conducting the consultation activities is to achieve the below: Introduce the construction subproject of the health center. Disclose information regarding the Grievance Mechanism resources in place. Discuss anticipated environmental and social impacts associated with the project. Propose extensive mitigation measures to address potential environmental and social risks associated with the project activities. The formatted questionnaire was then addressed to 11 women and 31 men in Two villages the surrounding community randomly to have their opinions and thoughts regarding the construction activities. Consultation Results: All interviewees expressed their hope that the completion of the project will enhance their life quality. All those interviewed expressed their support to the project. Therefore, they link the project with improving their living conditions and the development of the area economically.

⁵ <u>https://www.ifc.org/wps/wcm/connect/7d708218-2a9e-4fcc-879d-</u> 9d5051746e7d/4%2BConstruction%2Band%2BDecommissioning.pdf?MOD=AJPERES&CVID=nPtgy6x

	 They also stressed the importance of providing a timetable for the completion of the project because they heard of many planned projects in their district but have not seen them being completed. The participants emphasized that they know that the project's benefits are far greater than its negative impacts and confirmed their willingness to cooperate with the project. All participants in the village expressed that the construction of the health center will have a positive impact on their social daily life. Please refer to Annex 1 and Annex 2 for sample of the consultations for both men and women in the village. 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: The interests of the locals will not be affected in any way by the construction activities. All interviewed locals agreed that the construction of the health center will have a positive impact from the social perspectives on the locals. No vegetation covers, crops, plants, treesetc. will be removed in order to execute the construction activities of these Roads. No claims from any locals were recorded or alleged regarding the ownership of the land; all agreed that it is governmental land property.
GRM Process	The Grievance Redress Mechanism is a procedure that aims to facilitate the most satisfactory solution and/or guidance to stakeholders seeking to submit their comments or complaints. Before the start of the project, local community members will be informed about the GRM via communication channels. For example, they will be informed verbally by their community leader or through social media online. Visible sign boards, hard copies of the GRM brochures, and online platforms will also be made available posting GRM-relevant contact information and an explanation of the grievance process. The SFD established a central free hotline, and it is functioning properly in addition to the email and WhatsApp application. The digital system with multi-channels for receiving complaints, inquiries,

feedback or comments like WhatsApp, Facebook, email and complain boxes for each subproject. Additionally, GRM focal points will be assigned at local level and central level to be in charge of handling complaints. The focal point will maintain a log and report on grievance management, which includes minutes of meetings, resolutions and recommendations as part of an annual project progress report. The information for the central office is:

#	Name	Job Title	Phone Number	E-mail
1	Husam A. Shaael	GRM Team leader	07833344263 07733344263	<u>Sfd.grm.iraq@gmail.com</u>

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

Contact Information for GRM

#	Name	Job Title	Phone Number	E-mail
1	Mohammed H. Redha	SFD Team leader	07801202226	malquzweeni@gmail.com
2	Karar H. Abdulhussain	Env. & Soc. officer	07905106119	<u>Kararrhasan89@yahoo.co</u> <u>m</u>
3	Samah Y. Abbas	GRM officer	07701257663	<u>Karbala_planing@yahoo.co</u> <u>m</u>

The process of managing complaints will be as follows:

The grievance note should be signed and dated by the aggrieved person. Where the affected person is unable to write, s/he should obtain assistance from the community to write the note and mark the letter with his/her thumbprint. Individuals who submit their comments or grievances have the right to request that their name be kept confidential, though this may mean that the social officer in charge of the GRM is unable to provide feedback on how the grievance is to be addressed. However, an anonymous complaint can receive a code and should be investigated appropriately and treated courteously.

After receiving the comments and complaints, they will be summarized and listed in a Complaints/Comments LogBook, containing the name/group of commenter/complainant, date the comment was received, brief description of issue, information on proposed corrective actions to be implemented (if appropriate), and the date of response sent to the commenter/complainant. Complaints should be sorted out according to complexity; 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.

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.

Standard-Level Feedback

If the identity of the aggrieved person is known and the grievance is classified as 'standard', the acknowledgement of grievance will be within 3 working-days and the response will be within 20 working-days (depending on the type of grievance i.e. high or standard). The GRM Social Officer will keep a grievance log and report on grievance management (i.e. minutes of meeting, recommendations, and resolutions made) as part of annual project progress reports. At the 20 business-day mark, if a complaint/question is still pending, the GRM focal point will provide an update to the aggrieved person and inform them of the reason of delay in resolving their case, and provide the date for which a response will be provided.

Aggrieved people who are dissatisfied with the outcome of their complaint can appeal the decision by resubmitting their complaint to the GRM Social Officer within 30 working days of receiving a response to the original submitted grievance. Subsequently, the GRM Social Officer and other relevant personnel have 30 working days to investigate and address the issue. Additionally, the GRM Social Officer has 10 working days to prepare a comprehensive response, including the findings of the investigation and the rationale of the determination. Accordingly, within a maximum of 40 working days, the appeal case should be closed.

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

Individuals who submit their comments or grievances have the right to request that their name be kept confidential. An anonymous complaint will receive a code and should be investigated appropriately and treated courteously. Ensuring confidentiality when dealing with cases of gender-based violence GBV. In order to mitigate the GBV related issues/ complaints, there will be grievance mechanism sensitive to gender by assigning female GRM officer in case of facing any GBV incidents, in addition, all GRM officers/ focal points must be trained on how to handle SEA/SH related grievances.

In addition to PMO, the MOP, project offices in governorates, and Community Development Groups (CDGs), the World Bank's Grievance Redress System (GRS) can also be approached for reporting and resolving issues.

Disclosure activities

As soon as the site-specific ESMP gets clearance from the World Bank and approval from the Ministry of planning, the following disclosure procedures will be adapted. A final report, in English, Arabic, and in their local language, will be published on the WB, SFD and Ministry of Planning websites and also will be available locally (such as at local SFD office.

Will there be any capacity building?	[] N or [x]Y It is recommended to provide safety trainings and induction sessions to
	the workers and engineers who will be employed throughout the construction phase. Moreover, there needs to be more training on GRM implementation in order to ensure its proper functioning in the future.

PART B: SAFEGUARDS SCREENING AND TRIGGERS

ENVIRON	ENVIRONMENTAL /SOCIAL SCREENING FOR SAFEGUARDS TRIGGERS									
		Activity / Typology	Status	Triggered Actions						
	1.	Re/construction of urban, inter-urban or rural roads	[<mark>X</mark>] Yes [] No	This subproject is the construction of health center.						
	2.	Reconstruction of / impacts on surface drainage system	[] Yes [<mark>X</mark>] No	The subproject doesn't have an impact on Surface drainage system						
Will the site	3.	Activities in Historic building(s) and districts	[] Yes [<mark>X</mark>] No	The construction activities do not take place anywhere near historic buildings or districts and						
activity include/in volve any	4.	Required acquisition of land or temporary / permanent impacts on livelihoods	[] Yes [<mark>X</mark>] No	No land acquisition is required for this subproject.						
of the following?	5.	Handling or presence of hazardous or toxic materials	[] Yes [<mark>X</mark>] No	There are no toxic or hazardous materials generated by the project.						
	6.	Impacts on forests and/or protected areas	[] Yes [<mark>X</mark>] No	There are no forests or protected areas surrounding the subproject area.						
	7.	Risk of unexploded ordinance (UXO)	[] Yes [<mark>X</mark>] No							
	8.	Traffic and Pedestrian Safety	[<mark>X</mark>] Yes [] No	If "Yes", see Part C						

PART C: MITIGATION MEASURES/ CONSTRUCTION PHASE

No.	Potential Impacts	Mitigation Measures
1	General Conditions	 The local construction and environment inspectorates and communities have been notified of upcoming activities. The public has been notified of the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works). All guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. All legally required permits have been acquired for construction and/or rehabilitation. The Contractor formally agrees that all work will be carried out in a safe and disciplined manner designed to minimize impacts on neighbouring residents and environment. There is posted material indicating the nearest police station and hospital (with accident and emergency facilities). The contractor must take reasonable steps to prevent unauthorized people accessing the site. Prohibit the burning of waste on site. Providing extinguishers which distributed within the working area.

No.	Potential Impacts	Mitigation Measures
		10) If work involving the use of flammable materials is being carried out or any other material that might make any danger, stop people smoking and do not allow other work activities involving potential ignition sources to take place
		nearby. 11) Providing site boundaries (if any) by installing suitable physical boundaries (barriers, tape or fence).
		12) Marking excavation holes (if any) with physical boundaries (barriers, tape or fence).
		13) The contractor should put up barriers or covers in the area of openings and excavations if any.
		14) Clearance letter of explosive remnants of War (ERW) Unexploded Ordnance (UXO) should be obtained before commencing the work in the site area.
		 Contractor to ensure PPE (personal protective equipment) is used by all workers on site.
		16) Materials and equipment are tidily stacked, protected and covered where necessary. Additionally, there is adequate space for new materials to be stored in secured covered areas to avoid damage, theft, and to protect these items from weather conditions.
		17) Ensure that distance is maintained between drivers and workers when unloading construction materials and recommend that drivers remain in their vehicles whenever possible to avoid COVID-19.
		18) Appropriate signposting of the sites will inform workers of key rules and regulations to follow.
		19) The contractor should provide full insurance coverage schema of all type of workers. The insurance should cover work related accidents (Injuries and fatalities) as well as insurance for third party.
		20) Rigid obligations and penalties will be added to the contractor/subcontractors' contractual agreements in order to guarantee child labor is prohibited in the project. Penalties to be applied in cases where workers under the age of 18 are
		 hired. 21) The contractor must clean up and rehabilitate all sites prior to handing over. 22) Actions to make the health center more energy efficient, such as use of natural light and ventilation which may also reduce the reliance on generators and other sources for energy should be considered.
		23) The new building shall be designed, constructed, and operated in full compliance with local building codes, local fire department regulations, local legal/insurance requirements, and in accordance with an internationally accepted L&FS
		standard. A suitably qualified L&FS professional acceptable to the Bank and hired by the Borrower shall prepare and submit a L&FS Master Plan, including preliminary drawings and specifications, and certify that the design meets the requirements of WBG General EHS guidelines. This professional should conduct
		a review of L&FS systems as part of the commissioning tests for new and renovated buildings and certifies that construction of the L&FS systems has been carried out in accordance with the accepted design.
	Generation,	 Waste collection and disposal pathways and sites will be identified for all major waste types expected from construction activities.
	storage,	2) Construction and demolition waste, if any, will be separated from general
2	disposal	refuse, organic, liquid and chemical wastes by on-site sorting and stored in appropriate containers.
	of constructio	 Construction waste will be collected and disposed properly by licensed collectors to authorized area.
	n, hazard,	4) The records of waste disposal will be maintained as proof for proper management as designed.
	and	5) Whenever feasible Contractor will reuse and recycle appropriate and viable materials

No.	Potential Impacts	Mitigation Measures
	domestic waste	 6) Simple waste management plan for specific waste streams must be developed. 7) General waste must be collected and transported to the approved disposal sites. 8) Food wastes must be collected, where practicable, considering health and hygiene issues, for disposal off-site through licensed contractors.
3	Hazardous wastes and materials ⁶	 9) Waste containers must be located at each worksite with sufficient numbers. 1) Hydrocarbons, including lubricants, which will be very limited and resulted just from machines/truck shall be collected for safe transport outside the site for recycling, transport or disposal at approved sites to be nominated by the Municipality and the Ministry of Health and Environment 2) The site will be cleaned from all wastes frequently and wastes will be stored in safe containers until transported 3) The waste shall be transported by specially licensed Transporters and disposed of in the special areas to be determined by the authority. 4) Paints containing solvents, solvents or lead-based paints might use for road furniture shall not be used as per requirements, instructions and coordination with the Ministry of Science and Technology 5) Empty containers of treatment chemicals shall be returned to suppliers.
4	Air quality ⁷	 Demolition debris, excavated soil and aggregates shall be kept in controlled area and sprayed with water mist to reduce debris dust when necessary There will be no open burning of construction / waste material at the site. All machinery will comply with Iraqi emission regulations, shall well maintained and serviced and there will be no excessive idling of construction vehicles at sites
5	Noise ⁸	 Construction noise will be limited to restricted times agreed to in the permit All the workers will be supplied with fully safety measures including earmuffs.
6	Runoff water and drainage systems	 Procedures will be put in place for rapid response to accidental spills of fuels, lubricants and other toxic or noxious substances, and for their recovery and appropriate disposal Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies There will be no unregulated extraction of groundwater, nor uncontrolled discharge of process waters, cement slurries, or any other contaminated waters into the ground or the water resource.
7	Groundwat er quality	Sewage from construction offices and rest areas will be collected in septic tanks and transferred by trucks to the nearest sewage treatment plant by authorized contractors.
8	Traffic	 In compliance with national regulations, the Contractor will ensure that the construction site is properly secured and construction related traffic regulated. The site will be clearly visible and the public warned of all potential hazards by signposting and barriers / fencing Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement If required, active traffic management by trained and visible staff at the site for safe passage for the public

⁶ <u>https://www.ifc.org/wps/wcm/connect/90231ba8-5bb3-40f4-9255-eaf723d89c32/1-</u>

^{5%2}BHazardous%2BMaterials%2BManagement.pdf?MOD=AJPERES&CVID=nPtgwml https://www.ifc.org/wps/wcm/connect/4e01e089-ad1a-4986-b955-e19e1f305ff0/1-

^{1%2}BAir%2BEmissions%2Band%2BAmbient%2BAir%2BQuality.pdf?MOD=AJPERES&CVID=nPtgvbS

⁸ https://www.ifc.org/wps/wcm/connect/4a4db1c5-ee97-43ba-99dd-8b120b22ea32/1-

^{7%2}BNoise.pdf?MOD=AJPERES&CVID=nPtgwZY

No.	Potential Impacts	Mitigation Measures			
		5) Ensuring safe and continuous access to all adjacent office facilities, shops and residences during construction			
9	community health & safety conditions	 Provide adequate signage to prevent accidental falling into open areas All guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. The contractor should develop and implement "EHS Procedures". Deployment of HSE procedures for the construction personnel. Create and train a COVID-19 response team, comprising contractors, managers and workers, with clear responsibility. During the loading and unloading of debris specific measures should be applied: a. Covering the trucks using polyethylene sheets to avoid the falling of debris Trucks should use unpopulated routes as much as possible For proper implementation of Community Health and Safety mitigation measures during construction, it is essential to establish and sustain an open and transparent dialogue between MoP/contractor and the affected communities in full compliance with the WB standards related to stakeholder engagement activities. It is necessary to put signs telling the citizen that the health center is under consruction. Apply the concept of universal access to the design and construction of buildings or any structures where technically and financially feasible (i.e. access to all users, including persons with disabilities such as wheelchair users) 			
		11) A grievance mechanism should be made available to community people1) The contractor should develop and implement Construction OHS Plan			
	OHS	 (submitted and approved by the Resident Engineer) prior to the start of construction. It will address all the risks anticipated including, but not limited to: Working in confined space (inside sheet piles), Risk of sinking, Electrocution, and Safety of equipment. 2) The contractor shall implement fall prevention and protection measures whenever a worker is exposed to the hazard of falling more than two meters, or through an opening in a work surface. Fall prevention / protection measures may include: 3) Installation of guardrails with mid-rails and toe boards at the edge of any fall hazard area 4) Proper use of ladders and scaffolds by trained employees 5) Use of fall prevention devices, including safety belt and lanyard travel limiting devices to prevent access to fall hazard area, or fall protection devices such as full body harnesses used in conjunction with shock absorbing lanyards or self-retracting inertial fall arrest devices attached to fixed anchor point or horizontal life-lines 6) Appropriate training in use, serviceability, and integrity of the necessary PPE 7) Inclusion of rescue and/or recovery plans, and equipment to respond to workers after an arrested fall 8) Conduct a Risk Hazard Assessment (RHA), prepare an Emergency Response Plan (ERP) 9) Specific emergency response procedures 10)Training of emergency response teams 11)Permanently stationed emergency equipment and facilities (e.g., first aid stations, firefighting equipment, spill response equipment, personal protection equipment for the emergency response teams) 12)ensure that all electrical equipment and machinery is switched off and all power 			

No.	Potential Impacts	Mitigation Measures
		 sources are unplugged. 13) Warning signs can be used to remind workers to do this before the initial maintenance inspection takes place. 14) Ensure all surfaces and work areas are dry when working with electricity and electrical devices or appliances. 15) If this can't be avoided, rubber gloves and boots should be used to reduce the intensity of an electric shock. a. 1) Workers' PPE will comply with international good practice (always hardhats,
	Worker conditions	 as needed masks and safety glasses, harnesses and safety boots) Provide a first aid kits in different places of the work site with the appropriate number of materials given the number of workers on site. The workers will be noted about the locations of the first aid kits. Everyone who works on any site must have access to adequate toilet and washing facilities, a place for preparing and consuming refreshments, and an area for storing and drying clothing and personal protective equipment (PPE). Ensure that workers receive advice and instructions on how to conduct daily self-monitoring and report the most common symptoms for COVID-19. Develop contingency plans with arrangements for accommodation, care and treatment for: Workers elf-isolating Workers displaying symptoms Getting adequate supplies of water, food and supplies Contingency plans also should consider arrangements for the storage and disposal arrangements for medical waste, which may increase in volume and which can remain infectious for several days (depending upon the material). Ensure medical facilities are stocked with adequate supplies of medical PPE, as a minimum: Gowns, aprons Hedical masks and some respirators (N95 or FFP2) Gloves (medical, and heavy duty for cleaners) Eye protection (goggles or face screens) Medical staff at the facilities should be trained and be kept up to date on WHO advice and recommendations on the specifics of COVID19 Enhanced cleaning arrangements should be put in place, to include regular and deep cleaning using disinfectant of catering facilities/canteens/food/drink facilities, latrines/toilets/showers, communal areas, including door handles, floors and all surfaces that are touched regularly (ensure cleaning staff have adequate PPE when cleaning consultation rooms and facilities used to treat infected patients) Other measures (such as working wa
10	Social Impacts	 Reducing impacts on the community through community and neighbour engagement. Provide proper GRM for handling complaints
11	Child labor and Gender Based	 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).

No.	Potential Impacts	Mitigation Measures
	Violence	 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. Implement all facets of the established grievance mechanism, ensuring anonymous channels are available.
12	Accessibilit y	 Health center should be accessible to all patients with disabilities, including wheelchair users. The project should have measures to make health centers accessible to men and women, such as include separate toilets for men and women,

PART D: MONITORING PLAN/ CONSTRUCTION PHASE/ OPERATION PHASE

	Potential			Respon	sibility	Additional Cost in USD	
No.	Impacts	Mitigation Measures	Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring
1	General Conditions	 The local construction and environment inspectorates and communities have been notified of upcoming activities The public has been notified of the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works) All legally required permits have been acquired for construction and/or rehabilitation The Contractor formally agrees that all work will be carried out in a safe and disciplined manner designed to minimize impacts on neighbouring residents and environment. Workers' PPE will comply with international good practice (Always hardhats, as needed masks and safety glasses, harnesses and safety boots) There is posted material indicating the nearest police station and hospital (with accident and emergency facilities). The contractor must take reasonable steps to prevent unauthorized people accessing the site. Prohibit the burning of materials on site. Provide a first aid kits in different places of the work site with the appropriate number of materials given the number of workers on site. The workers will be noted about the locations of the first aid kits. Providing extinguishers which distributed within the working area. If work involving the use of flammable materials is being carried out or any other material that might make any danger, stop people smoking and do not allow other work activities involving potential ignition sources to take place nearby. Providing site boundaries (if any) by installing suitable physical boundaries (barriers, tape or fence). Marking excavation holes with physical boundaries (barriers, tape or fence) 	Bi-monthly: record of all the licenses and permits obtained; Compliance with the HSE requirements	Contractor	- E&S Specialist - Resident Engineer	No additional cost	No additional cost

	Potential	Mitigation Measures		Respor	nsibility	Additional Cost in USD	
No.	Impacts		Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring
		 15) The contractor should put up barriers or covers in the area of openings and excavations. 16) Store building materials (such as pipes, manhole rings, and cement bags) so that they cannot topple or roll over. 17) Everyone who works on any site must have access to adequate toilet and washing facilities, a place for preparing and consuming refreshments, and an area for storing and drying clothing and personal protective equipment (PPE). 18) Contractor to ensure PPE (personal protective equipment) is used by all workers on site. 19) Materials and equipment are tidily stacked, protected and covered where necessary. Additionally, there is adequate space for new materials to be stored in secured covered areas to avoid damage, theft, and to protect these items from weather conditions. 20) Appropriate signposting of the sites will inform workers of key rules and regulations to follow. 21) All Practical measures to help employers, workers and the self-employed prevent and mitigate the transmission of COVID-19 in construction work should be followed. 22) All guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. 23) The contractor should provide full insurance coverage schema of all type of workers. The insurance should cover work related accidents (Injuries and fatalities) as well as insurance for third party. 24) Rigid obligations and penalties will be added to the contractor/subcontractors' contractual agreements in order to guarantee child labor is prohibited in the project. Penalties to be applied in cases where workers under the age of 18 are hire. 25) The contractor must clean up and rehabilitate all sites prior to handing over. 26) Actions to make the health center more energy efficient, such as use of natural light and ventilation which may also 					

	Potential	Mitigation Measures		Responsibility		Additional	Additional Cost in USD	
No.	No. Impacts		Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring	
		reduce the reliance on generators and other sources for energy should be considered. 27) The new building shall be designed, constructed, and operated in full compliance with local building codes, local fire department regulations, local legal/insurance requirements, and in accordance with an internationally accepted L&FS standard. A suitably qualified L&FS professional acceptable to the Bank and hired by the Borrower shall prepare and submit a L&FS Master Plan, including preliminary drawings and specifications, and certify that the design meets the requirements of WBG General EHS guidelines. This professional should conduct a review of L&FS systems as part of the commissioning tests for new and renovated buildings and certifies that construction of the L&FS systems has been carried out in accordance with the accepted design.						
2	Generation, storage, disposal of construction , hazard, and domestic waste ⁹	 Waste collection and disposal pathways and sites will be identified for all major waste types expected from construction activities. Construction and demolition waste, if any, will be separated from general refuse, organic, liquid and chemical wastes by on-site sorting and stored in appropriate containers. Construction waste will be collected and disposed properly by licensed collectors to authorized area. The records of waste disposal will be maintained as proof for proper management as designed. Whenever feasible Contractor will reuse and recycle appropriate and viable materials 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. 	Weekly site inspections and verifying the records on waste disposal	Contractor	- E&S Specialist - Resident Engineer	No additional cost	No additional cost	

⁹ <u>https://www.ifc.org/wps/wcm/connect/456bbb17-b961-45b3-b0a7-c1bd1c7163e0/1-6%2BWaste%2BManagement.pdf?MOD=AJPERES&CVID=nPtgwEW</u>

	Potential			Responsibility				Additional	l Cost in USD	
No.	No. Impacts	Mitigation Measures	Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring			
3	Handling of hazardous wastes and materials	 9) Waste containers must be located at each worksite with sufficient numbers. 10) Guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. 11) 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. 1) Hydrocarbons, including lubricants, which will be very limited and resulted just from machines/truck shall be collected for safe transport outside the site for recycling, transport or disposal at approved sites to be nominated by the Municipality and the Ministry of Health and Environment 2) The site will be cleaned from all wastes frequently and wastes will be stored in safe containers until transported 3) The waste shall be transported by specially licensed tankers and disposed of in the special areas away from the city to be determined by the paddies. 4) Paints containing solvents, solvents or lead-based paints shall not be used as per requirements, instructions and coordination with the Ministry of Science and Technology. 5) Guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. 	Weekly site inspections and verifying the records on waste disposal	Contractor	- E&S Specialist - Resident Engineer	No additional cost	No additional cost			
	Deteriorati on of	1) Demolition debris, excavated soil and aggregates shall be kept in controlled area and sprayed with water mist to reduce debris dust	Ambient air quality test, 1 time prior to		- E&S Specialist	Additional cost of	Testing done by			
4	air quality ¹⁰	2) During pneumatic drilling and foundations dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site	construction to obtain the baseline Air quality	Contractor		water	accredited			
	quanty	3) The surrounding environment (sidewalks, roads) shall be kept free of soil and debris to minimize dust	parameters:		- Resident	500	Laboratorie			

¹⁰ <u>https://www.ifc.org/wps/wcm/connect/4e01e089-ad1a-4986-b955-e19e1f305ff0/1-</u> 1%2BAir%2BEmissions%2Band%2BAmbient%2BAir%2BQuality.pdf?MOD=AJPERES&CVID=nPtgvbS

	Potential			Respon	sibility	Additional	Cost in USD
No.	Impacts	Mitigation Measures	Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring
		 4) There will be no open burning of construction / waste material at the site. 5) All guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. 6) All machinery will comply with Iraqi emission regulations, shall well maintained and serviced and there will be no excessive idling of construction vehicles at sites 	PM10, PM2.5, SO2, NOx, CO, Ozone and HC Compliance with dust abatement measures		Engineer		s. Additional cost 750 US
5	Increased level of noise ¹¹	 Construction noise will be limited to restricted times agreed to in the permit All the workers will be supplied with fully safety measures including earmuffs. Compliance with the time limitations; Switching off the equipment not in use; Use of protective gear 	Weekly site inspection	Contractor	- E&S Specialist -Resident Engineer	No additional cost	No additional cost
6	Disruption of the runoff water and drainage systems	 Procedures will be put in place for rapid response to accidental spills of fuels, lubricants and other toxic or noxious substances, and for their recovery and appropriate disposal Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies There will be no unregulated extraction of groundwater, nor uncontrolled discharge of process waters, cement slurries, or any other contaminated waters into the ground or adjacent streams or rivers; 	Weekly site inspection during rainy season; Bi-weekly site inspection during dry seasons: Alteration of water courses; Signs of spillage of hazardous materials	Contractor	- E&S Specialist - Resident Engineer	additional cost: contingenc y for removal of accidental hazardous spills 1000 US \$	No additional cost

¹¹ <u>https://www.ifc.org/wps/wcm/connect/4e01e089-ad1a-4986-b955-e19e1f305ff0/1-</u> 1%2BAir%2BEmissions%2Band%2BAmbient%2BAir%2BQuality.pdf?MOD=AJPERES&CVID=nPtgvbS

	Potential			Respor	sibility	Additional	Cost in USD
No.	Impacts	Mitigation Measures	Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring
7	Deteriorati on of groundwat er quality	 Sewage from construction offices and rest areas will be collected in septic tanks and transferred by trucks to the nearest sewage treatment plant 	accidental spills of hazardous materials Weekly site inspection during rainy season; Bi-weekly site inspection during dry seasons Water testing: in case of accidental spills of hazardous materials: pH, Turbidity, (EC), Color, Total Suspended Solids (TSS), (TDS), (COD), (BOD),	Contractor	- E&S Specialist - Resident Engineer	No additional cost	Testing done by Accredited Laboratorie s. Additional cost 500 US \$
8	Disruption of traffic	 In compliance with national regulations the Contractor will ensure that the construction site is properly secured and construction related traffic regulated. The site will be clearly visible and the public warned of all potential hazards by signposting and barriers / fencing Traffic management system and staff training, especially for site access and near-site heavy traffic. Provision of safe passages and crossings for pedestrians where construction traffic interferes. Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement 	Monthly site surveillance for the presence of fencing/barriers and warning signs, and traffic speed limitations	Contractor	Resident engineer PMO	No additional cost	No additional cost

	Potential			Respon		Additional	Cost in USD
No.	Impacts	Mitigation Measures	Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring
9	Deteriorati on of health & safety conditions	 5) Ensuring safe and continuous access to all adjacent office facilities, shops and residences during construction 1) Provide adequate signage to prevent accidental falling into open areas 2) Fencing of the work areas. 3) The contractor should develop and implement "EHS Procedures". 4) Include Construction OHS Plan (submitted and approved by the Resident Engineer) prior to the start of construction. It will address all the risks anticipated including, but not limited to: Working in confined space (inside sheet piles), Risk of sinking, Electrocution, and Safety of equipment. 5) To ensure worker safety, health insurance must be provided to all type of workers 6) All guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. 7) Deployment of HSE procedures for the construction personnel 8) An accident and work-related injuries log should be maintained, along with first-aid kit for minor injuries. 9) Installation of guardrails with mid-rails and toe boards at the edge of any fall hazard area 10) Proper use of ladders and scaffolds by trained employees 11) Use of fall prevention devices, including safety belt and lanyard travel limiting devices to prevent access to fall hazard area, or fall protection devices such as full body harnesses used in conjunction with shock absorbing lanyards or self-retracting inertial fall arrest devices attached to fixed anchor point or horizontal life-lines 12) Appropriate training in use, serviceability, and integrity of the necessary PPE 13) Inclusion of rescue and/or recovery plans, and equipment to respond to workers after an arrested fall 	Inspection and photo evidence Maintaining records of injuries and accidents with cause and location	Contractor	- E&S Specialist - Resident Engineer	No additional cost	No additional cost
10	Social Impacts	 Reducing impacts on the community through community and neighbour engagement. Provide proper GRM for handling complaints 	Weekly monitoring	Contractor	- E&S Specialist -Resident	o additional cost	urchasing of the required

	Potential			Respo	nsibility	Additional	Cost in USD
No.	Impacts	Mitigation Measures	Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring
			of response to complaints		Engineer		equipment \$750 UD
11	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). 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. The monitoring of workers' compliance to the Code of Conduct when interacting with the surrounding communities to avoid behaviors such as GBV. Implement all facets of the established grievance mechanism, ensuring anonymous channels are available. 	Inspection and Bi- weekly monitoring Signed Worker's Code of Conduct Trainings on Code of Conduct + attendance sheet GRM	Contractor	- Resident Engineer	o additional cost	lo additional cost
12	Accessibil ity	1) Health center should be accessible to all people with disabilities, including wheelchair users.	Resident engineer	Contractor	Resident engineer	o additional cost	Io additional cost
	Expected additional mitigation costs: USD 1500						
		Expected monitoring co	sts:				USD 2250

Re	ceptor	Mitigation Measures	Responsibility	Supervision	Total estimated Cost in
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	• Negligible noise levels associated with the operation of the health center during operating time.	Not Applicable	Not Applicable	Not Applicable
3	Sanitary Waste	• Wastewater (sanitary waste) will be collected in the collection tank (septic tank) and then transported periodically to the nearest authorized wastewater treatment plant as there is no sewage network available in the area of these health centers.	Local authorities	Local authorities	municipal budget
4	Soil	Not applicable	Not applicable	Not applicable	Not applicable
5	Solid and hazardous wastes	 During the operational period, some littering and waste generation resulting from the repair activities will occur. Littering may occur due to wind action. In addition, the used oil produced from engines (generator if present) can be stored in an air-tight container that can be sealed with a screw on cap and then transferred to the nearest recycling facility i.e the hazardous waste, the storage, collection, transportation and disposal of hazardous waste should be handle properly. All waste should be deposed through licensed haulers/transporters to licensed and regulated landfill sites appropriate to the type of waste generated. Medical waste should be managed according to MWMP. 	•	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 operating of the health centers 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	Having a clear set of emergency Plan and Procedures.provision of health and safety information;	Contractor	Resident engineer	Included in contractor

Mitigation Measures during Operation Phase.

		• regular inspection, review and recording of EHS performance;			cost
		• Medical waste should be managed according to MWMP.			
10	Accessibility	 Health centers should be accessible to all patients with disabilities, including wheelchair users. The project should have measures to make health centers accessible to men and women, such as include separate toilets for men and women, 	Contractor	Resident engineer	Included in contractor cost
Total cost US\$ (Operation phase)				No Cost	

ANNEXES Annex 1: Consultations Photos



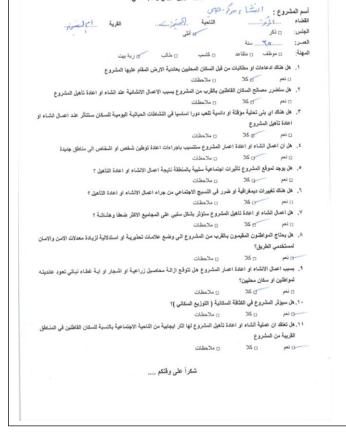
Public Consultations at Um Al-Baneen Al-Sahrawia Village



Public Consultations at Al-Dukhanya Village

Annex (2): Sample individual interviews for both men and women





استبيان الفريق البيني والاجتماعي

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استبيان الفريق البيني والاجتماعي
                                                                    أسم المشروع : النَّ ارز م
          القرية المعاسم
                                                                         القضاء الجدور (غ ب
                                              التاهية الجمز 2
                                                                                       الجنس: ما ذكر
                                                       ם أنثى
                                                                              العمر: 2. سنة
                                                          المهنة: 🛛 موظف 🗠 متقاعد 🚽 كاسب
                                              _ طالب
                               🗆 ریۀ بیت

    هل هناك ادعاءات او مطالبات من قبل السكان المحليين بعاندية الارض المقام عليها المشروع

                                                                             D لعم B كلا
                                                          ] ملاحظات
      ۲. هل ستضرر مصالح السكان القاطنين بالقرب من المشروع بسبب الاعمال الانشانية عند انشاء او اعادة تأهيل المشروع
                                                          ] ملاحظات
                                                                             ے نعم کلا
٣. هل هناك اي بنى تحقية موقتة او دائمية تلعب دورا اساسيا في النشاطات الحياتية اليومية للسكان ستتأثر عند اعسال انشاء او
                                                                               اعادة تأهيل المشروع
                                                                             25
                                                                                           ن نعم
                                                          ] ملاحظات
        ٤. هل ان اعمال انشاء او اعادة اعمار المشروع ستتسبب باجراءات اعادة توطين شخص او اشخاص الى مناطق جديدة
                                                           ] ملاحظات
                                                                              D نعم D کلا

    هل يوجد لموقع المشروع تأثيرات اجتماعية سلبية بالمنطقة نتيجة اعمال الانشاء او اعادة التاهيل ؟

                                                                              ם نعم 🚽 🚽 کلا
                                                           ] ملاحظات
                   ٣. هل هناك تغييرات ديمغرافية او ضرر في النسيج الاجتماعي من جراء اعمال الانشاء او اعادة التأهيل ؟
                                                                              D لعم D كلا
                                                           ] ملاحظات
                    ٧. هل اعمال انشاء او اعادة تاهيل المشروع ستؤثر بشكل سلبي على المجاميع الاكثر ضعفا و هشاشة ؟
                                                           🗆 ملاحظات
                                                                              XSB
                                                                                           🗆 لعم
٨. هل يحتاج المواطنون المقيمون بالقرب من المشروع الى وضع علامات تحذيرية أو استدلالية لزيادة معدلات الامن والامان
                                                                                 لمستخدمي الطريق؟
                                                           0 ملاحظات
                                                                              72
                                                                                           ا نعم
٩. بسبب اعمال الإنشاء او اعادة اعمار المشروع هل تتوقع ازالة محاصيل زراعية او اشجار او اية غطاء نباتي تعود عانديته
                                                                            لمواطنين او سكان مطيين؟
                                                                             D نعم B كلا
                                                           0 ملاحظات
                                                 ۱۰. هل سيوثر المشروع في الكثافة المىكانية ( التوزيع المىكانى )؟
                                                           ملاحظات
                                                                              <u>ں</u> کلا
                                                                                            ا نعم
١١. هل تعتقد ان عملية أنشاء او اعادة تأهيل المشروع لها اثار ايجابية من الناحية الاجتماعية بالنسبة للسكان القاطنين في المناطق
                                                                                القريبة من المشروع
                                                                              22
                                                           □ ملاحظات
                                                                                            العم
                                         شكراً على وقتكم ....
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Annex (3): IRAQI STANDARDS FOR AIR, NOISE, and Water

Ambient Air Quality Guidelines

Dellestent	Iraqi Standards		WHO Standards	
Pollutant	Concentration	Average Time	Concentration	
со	10 ppm	8 hours	N/A	
0	35 ppm	1 hour	N/A	
	0.1 ppm	1 hour	500 μg/m ³	
SO ₂	0.04 ppm	24 hours	20 μg/m ³	
	0.018 ppm	1 year	N/A	
NO	0.05 ppm	24 hours	200 μg/m ³	
NO ₂	0.04 ppm	1 year	40 μg/m ³	
Ozone (O ₃)	0.06 ppm	1 hour	100 μg/m³	
PM ₁₀	150 μg/m³	24 hours	50 μg/m ³	
DNA	65 μg/m³	24 hours	50 μg/m ³	
PM _{2.5}	15 μg/m³	1 year	15 μg/m ³	
Total Suspended	350 μg/m³	24 hours	N/A	
Particles	150 μg/m³	1 year	N/A	
	10 t/Km ² /month	30 days	N/A	
Falling Dust	(Residential Zone)			
	20 t/Km ² /month	30 days	N/A	
	(Industrial Zone)			
Hydrocarbons	0.24 ppm	3 hours	N/A	
РЬ	2 μg/m³	24 hours	N/A	
	1.5 μg/m ³	3 months	N/A	
	1 μg/m³	1 year	N/A	
Benzene	0.003 μg/m ³	1 year	N/A	

Pollutant	Iraqi Standards		WHO Standards	
Fondtant	Concentration	Average Time	Concentration	
Dioxin	0.6 pico g/m ³	1 year	N/A	

<u>Noise:</u>

Law no. 41 of the year 2015: Noise Protection and Control / Noise Limits for Different Working Zones

Туре	Allowable (dB)
Industrial	70
Commercial	70
Residential	55

<u>Water:</u>

The table below shows the limits defined for discharges to both natural waters (water resources) and sewers (which generally have higher permissible discharge limits).

Pollutant	Limits for discharge to water resources	Limits for discharge to public sewers	
Color	-	-	
Temperature	Less than 35°C	45°C	
Suspended solids	60	750	
рН	6 – 9.5	6 – 9.5	
Dissolved Oxygen (DO)	-	-	
Biochemical Oxygen Demand	Less than 40	1 000	
(BOD)		1,000	
Chemical Oxygen Demand	Less than 100	-	
(COD)		-	
Cyanide (CN ⁻)	0.05	0.5	
Fluoride (F ⁻)	5.0	10	
Free Chlorine (Cl ₂)	Traces	100	
	A. If the ratio of the amount of water discharged	600	
Chloride (Cl [®])	to the amount of source water is 1000:1 or		

Pollutant	Limits for discharge to water resources	Limits for discharge to public sewers
	 less, the chloride concentration of the discharge is permitted at 1% of the concentration of the natural source before discharge. B. If the ratio of the amount of water discharged to the amount of source water is more than 1000:1 the wastewater discharge must not exceed a chloride concentration of greater than 600 mg/L. C. If the concentration of chloride in the source water is less than 200 mg/L then the permitted discharge limit must be established on a case by case basis 	
Phenol	0.01 - 0.05	5 – 10
Sulfate (SO ₄ ²⁻)	 A. If the ratio of the amount of water discharged to the amount of source water is 1000:1 or less, the sulfate concentration of the discharge is permitted at 1% of the concentration of the natural source before discharge. B. If the ratio of the amount of water discharged to the amount of source water is more than 1000:1 the wastewater discharge must not exceed a sulfate concentration of sulfate in the source water is less than 200 mg/L then the permitted discharge limit must be established on a case by case basis 	300
Nitrate (NO ₃ ⁻)	50	-
Phosphate (PO ₄ ³⁻)	3	-
Ammonium (NH4 ⁺)	-	-
DDT	Nil	-
Lead (Pb)	0.1	0.1
Arsenic (As)	0.05	0.05

Pollutant	Limits for discharge to water resources	Limits for discharge to public sewers	
Cupper (Cu)	0.2	-	
Nickel (Ni)	0.2	0.1	
Selenium (Se)	0.05	-	
Mercury (Hg)	0.005	0.001	
Cadmium	0.01	0.1	
Zinc (Zn)	2.0	0.1	
Chromium (Cr)	0.1	0.1	
Aluminum (Al)	5.0	20	
Barium (Ba)	4.0	0.1	
Boron (B)	1.0	1.0	
Cobalt (Co)	0.5	0.5	
Iron (Fe)	2.0	15	
Manganese (Mn)	0.5	-	
Silver (Ag)	0.05	0.1	
Total Hydrocarbons & Derivatives	 Allows discharge of total hydrocarbons to water sources and A1 and A2 according to the concentrations and limitations set forth in the tables below; the concentration of hydrocarbons must be measured discharging to the water source. Hydrocarbons shall not be discharged to water sources A3 and A4. For rivers in continuous flow 10 mg/l according to the ratio of the amount of wastewater discharged to the amount of the water source should not be less than 1000:1. For a river in a continuous flow 3 mg/L and in accordance with the ratio of the amount of the water source should not be less to the amount of the source of the amount of the source of the amount of the water discharged to the amount of the amount of the water source should not be less than 1000:1. 	_	
Sulfide (S ²⁻)	Nil	3.0	
Ammonia (NH ₃)	Nil	10	
Ammonia gas (free NH ₃)	Nil	6.0	
Sulfur dioxide SO ₂	Nil	7.0	
Calcium Carbide CaC	Nil	Not allowed	
Organic solvents	Nil	Not allowed	

Pollutant	Limits for discharge to water resources	Limits for discharge to public sewers
Benzene	Nil	0.5
Chlorobenzene	Nil	0.1
TNT	Nil	0.5
Bromine (Br ₂)	Nil	1-3

Annex (4): Contractor's Responsibilities (Arabic) مسئوليات المقاول

يجب على مقاول الإنشاء الالتزام بالإجراءات التالية:

جودة الهواء

- الترطيب المنتظم للطرق بالماء لمنع الغبار
- التحكم في نواتج الحفر والتسوية للحد من إنتشار الغبار.
- أي مواد بناء قابلة للتطاير (أسمنت جاف وخلافه) يتم تخزينها في أكياس محكمة الغلق وتغطيتها لمنع تولد الغبار.
- الاحتفاظ بالمازوت والزيوت والطلاء والمواد الكيميائية الأخرى المستخدمة في الموقع بأقل كميات ممكنة وتخزينها في حاويات محكمة الغلق للحد من الأبخرة ؟
 - لا يتم تشغيل محركات المركبات والآلات الأخرى إلا عند الضرورة لتجنب الانبعاثات غير الضرورية ؛
- يتم الحفاظ على جميع المعدات والآلات والمركبات المستخدمة في الموقع في حالة عمل جيدة في جميع الأوقات لضمان الحد الأدنى من استهلاك الوقود وعوادم
 الدخان. ينطبق هذا على الحافلات المستخدمة لنقل العمال من وإلى الموقع.
 - منع الحرق المكششوف للمخلفات.
- يتم تغطية الشاحنة الناقلة لمواد/مخلفات البناء أو المواد المتربة الأخرى وذلك بعد التأكد من الاحتفاظ بمسافة ٣.٠ متر تحت الحافة العلوية لجدران الشاحنة ، بالقماش المشمع للتحكم في الغبار؛

 - تحديد سرعة قصوى للمركبات والمعدات التابعة للمشروع بحيث ألا تتجاوز السرعة القصوى داخل حدود الموقع عن ١٠–١٥ كم/ساعة.
 - توفير خط ساخن لتلقى الشكاوي ٢٤/٧

<u>الضوضاء</u>

- ب إقتصار تشغيل المعدات المستخدمة في أعمال البناء على أوقات محدودة خلال النهار حيث أنها ليست آمنة للعمل أثناء الليل. سيؤدي ذلك إلى تقليل اضطراب
 الضوضاء إلى حد كبير للمجتمعات القرىبة من مواقع العمل ؛
 - يتقييد استخدام الألات التي تصدر ضوضاء بالقرب من المستقبلات الحساسة ، واستخدام وسائل الحد من الضوضاء لألات البناء ، إذا لزم الأمر ؛
 - استخدام المركبات والمعدات المطابقة للمعايير الوطنية للضوضاء والاهتزاز ؛

- أثناء العمل ، يجب إغلاق أغطية المحرك للمولدات وضواغط الهواء وغيرها من المعدات الميكانيكية التي تعمل بالطاقة ، ووضع المعدات بعيدًا عن المناطق السكنية قدر الإمكان ؛

- يجب توفير أغطية للأذنين / معدات حماية السمع لجميع العمال
- - تطبيق نظام الشكاوي لتلقى الشكاوي المتعلقة بالضوضاء.

إدارة المخلفات الصلبة والخطرة

التقليل من المخلفات:

- · شراء المواد بالكمية الدقيقة المطلوبة ، لتقليل الاستخدامات المتبقية غير المستخدمة.
 - تقليل تولد النفايات في الموقع.
 - وضع خطة إدارة بسيطة للنفايات.
 - يجب جمع النفايات العامة ونقلها إلى المكان المخصص لذلك من قبل البلدية.
- يجب جمع نفايات الطعام ، حيثما أمكن ، مع مراعاة النظافة الشخصية ، للتخلص منها خارج الموقع من خلال مقاولين مرخصين.
 - يجب وضع حاويات لتجميع النفايات في كل موقع عمل.

يجب جمع النفايات الكيميائية في براميل (أو حاويات محكومة مماثلة) ، معنونة بشكل مناسب ، وم ثم يتم إرجاعها إلى المورد أو نقلها بأمان إلى المكان المخصص من قبل البلدية. يحتوي مكب النفايات التخزين والنقل والتعامل مع جميع
 المواد الكيميائية وفقًا لجميع المتطلبات التشريعية ، من خلال المقاولين المرخصين وبالتنسيق مع البلدية.

- يجب تخزين جميع النفايات الخطرة بشكل ملائم في مناطق محدودة ويجب تحديدها بوضوح على أنها "خطرة".
- يجب أن يتم نقل النفايات الخطرة والتخلص منها من خلال مقاولين مرخصين وبالتنسيق الوثيق مع البلدية ذات الصلة ووفقًا للمتطلبات والتعليمات القانونية.
 - يجب إدارة السوائل الخطرة ، مثل المذيبات وعوامل مقاومة الصدأ طبقاً لمتطلبات التشريعات ذات الصلة.
 - يجب إعداد جرد للمواد الخطرة لفترة البناء.
 - يجب توفير أصحيفة بيانات سلامة المواد (MSDS) للمواد الخطرة في الموقع أثناء البناء وإتاحتها وشرحها للعمال.
- يجب جمع نفايات المواد الهيدروكربونية ، بما في ذلك زيوت التشحيم ، للنقل الآمن خارج الموقع لإعادة استخدامها أو إعادة تدويرها أو نقلها أو التخلص منها في مكب معين من قبل البلدية.

إعادة استخدام النفايات وإعادة التدوير

- كلما أمكن ، سيعيد المقاول استخدام المواد القابلة للتدوير وإعادة تدويرها.
- يتم إعادة تدوير المخلفات التالية: الورق المقوى ، والمعادن ، وخردة المعادن مثل علب المشروبات الغازية ، وزيت مستهلك ، والورق ، والبلاستيك ، والخرسانة النظيفة
 وكذلك الغطاء النباتي المنزوع .

حفظ السجلات

- سيتم الاحتفاظ بكافة سجلات إزالة النفايات والإبلاغ عنها كما هو مطلوب في تقرير الأداء البيئي الشهري ؛
 - السجلات التي سيتم الاحتفاظ بها تشمل: إيصالات وفواتير من مقاول نقل النفايات ومنشأة استلام النفايات
- يتم الاحتفاظ بالسجلات السالفة الذكر في سجل النفايات ، الذي يسجل تواريخ الجمع ونوع النفايات والكميات وشركة نقل النفايات والوجهة وتوقيع الشخص المفوض تخزين النفايات ومعالجتها
 - سيتم تخزين النفايات في حاويات أو صناديق. لن يتم تخزينها مباشرة على أرض غير مبطنة ؟
 - سيتم تخزين نفايات إعادة التدوير في مناطق أو حاويات منفصلة ، ولن يتم خلطها مع أنواع النفايات الأخرى ؛

- يجب تخزين جميع النفايات الخطرة بشكل ملائم في المناطق المحصورة وتحديدها بوضوح على أنها "خطرة"
- معالجة النفايات وإدارتها بشكل صحيح من خلال فصل النفايات الصلبة عن النفايات الخطرة وعدم مزجها في مكب النفايات ؛
- سيتم جدولة إزالة النفايات من الموقع ، بحيث يكون لديك دائمًا سلة للنفايات متاحة للإستخدام في الموقع ، وللتأكد من عدم الملئ الكامل للنفايات/الحاويات ؛
- أي مناطق تخزين نفايات مؤقتة (غير متضمنة في صناديق أو حاويات) سيتم تغطيتها و / أو إحاطتها بسياج شبكي لمنع هبوب الرياح منها إلي الموقع ؛ و
 - يتم تخزين النفايات السائلة ، بما في ذلك نفايات الزيوت والمواد الكيميائية السائلة ، في براميل / حاويات محكمة الإغلاق على سطح خرساني.

التخلص من النفايات

- يجب أن يتم نقل النفايات الخطرة والتخلص منها من خلال المقاولين المرخص لهم وبالتنسيق الوثيق مع البلدية المختصبة بذلك.
 - يجب جمع النفايات العامة ونقلها إلى المكب المعين من قبل البلدية.

<u>جودة التربة</u>

- وضع علامات لتحديد مكان الحفر عن طريق سور ولاصقات وعلامات ارشادية.
 - إتباع الأساليب السليمة للحد من الانسكابات/التسريات؛
 - التداول والإدارة السليمة للمخلفات ومواد البناء والمواد الخطرة.
 - يتم تخزين النفايات داخل صناديق أو حاويات، وليس على الأرض مباشرة؛
 - عدم دفن و / أو حرق النفايات المنزلية في موقع المشروع.
- التخزين المؤقت للنفايات الصلبة عن طريق الاحتواء المناسب لتجنب انتشار النفايات والرائحة وتجنب الغبار ؛ احتواء ثانوي لمنع التسرب.

- ضمان أن تكون حاويات المواد السائلة الخطرة / حاويات النفايات محكمة الإغلاق بشكل صحيح دائمًا ومؤمنة من الانقلاب / السقوط / التلف / أشعة الشمس المباشرة أثناء النقل والتخزين؛

- تخزين المواد الكيميائية، مثل الزيوت ومضادات التآكل بكميات قليلة بالموقع.
- تحفظ جميع أنواع الوقود والمواد الكيميائية السائلة في أوعية أو براميل أو خزانات محكمة الإغلاق وفوق سطح الارض.
 - يجب إجراء الصيانة والإصلاح الروتيني للمعدات / المركبات المتنقلة في ورشة عمل.

- يتم الاحتفاظ بمجموعات التنظيف الخاصة بالانسكابات بالقرب من المناطق المستخدمة لتخزين الوقود أو المواد الكيميائية السائلة وسيتلقى الموظفون تدريباً على استخدام أدوات تنظيف الانسكابات؛

- التأكد من وجود البراميل والحاويات المستخدمة في تخزين الوقود أو المواد الكيميائية السائلة (بما في ذلك الزيوت المستعملة والدهانات) في حالة جيدة وخالية من الصدأ أو التلف؛
 - تنظيف موقع البناء من المخلفات الصلبة قبل إغلاقه.
 - تخصيص مناطق معينة لتخزين مخلفات التربة ومخلفات البناء.
 - يجب أن يتم ترميم التربة السطحية والمناطق المتضررة بعد انتهاء مرحلة البناء.

<u>جودة المياه</u>

- يجب تنفيذ أعمال الأرض (إزالة الغطاء النباتي، والحفر، والتسوية) خلال فترات الطقس الجاف.
 - يجب أن يتم تخزين التربة على مسافة آمنة بعيداً عن المجاري المائية.
- يتم تخزين النفايات داخل صناديق أو حاويات ، وليس على الأرض مباشرة لمنع التسرب ؛
- عدم إلقاء / التخلص من النفايات الصلبة (غير الخطرة أو الخطرة) ومياه الصرف في المسطحات المائية أو بالقرب منها.
 - التنظيف الجيد لتقليل الانسكابات / التسريبات.
- الاستجابة السريعة للانسكابات العرضية للوقود ومواد التشحيم والمواد السامة أو الضارة الأخرى ، واستعادتها والتخلص منها بشكل مناسب (يجب على المقاول إعداد خطة استجابة للطوارئ).
 - عدم غسل أو صيانة المركبات والآلات بالقرب من المسطحات المائية.

<u>المياه الجوفية:</u>

- سيتم تخزين النفايات داخل حاويات أو حاويات نفايات ، وليس مباشرة على الأرض لمنع التسرب ؛
 - يجب إجراء الصيانة والإصلاح الروتينية للمعدات / المركبات المنتقلة في ورشة ؛
- إجراء الصيانة والتفتيش الدوريين على خزانات الصرف الصحي والسباكة ومرافق الصرف الصحي المرتبطة بها لضمان ظروف صحية جيدة

السلامة والصحة المهنية

يجب على المقاول إعداد خطة الصحة والسلامة المهنية وتحليل مخاطر العمل خلال مرحلة البناء. سيقوم المقاول أيضًا بتعيين شخص متخصص للإشراف على الخطة. فيما يلي بعض تدابير التخفيف الرئيسية التي يجب تضمينها في الخطة:

- يجب تدريب العمال على تحديد وتقييم مخاطر السقوط وأن يكونوا على دراية كاملة بكيفية التحكم في التعرض لمثل هذه المخاطر.
 - يجب على العمال وموظفى الموقع دائمًا استخدام معدات الحماية الشخصية خاصة عند التعامل مع المواد السامة.
 - يجب على العمال الامتثال لقاعدة إدارة الصحة والسلامة المهنية التي تخص الاستخدام الأمن للسلالم.
- لمنع مخاطر معدات البناء الثقيلة ، يجب على العمال اتباع إرشادات سلامة البناء المصممة للقضاء على التعرض لمثل هذه الإصابات والحوادث
 - يجب أن تكون معدات الطوارئ (مواد تنظيف الانسكاب ، طفايات الحريق ، إلخ ..) متوفرة دائمًا في الموقع.
 - يجب توفير الفحوصات الصحية الأولية والدورية للعمال.
 - يجب أن تتضمن الخطة تدابير الاستجابة لفيروس كورونا المستجد كما هو موضح في الملحق ٤.
- يجب تزويد العمال بتأمين صحي (يغطي تقديم الدعم الطبي في حالة الإصابة بالأمراض) وتأمين السلامة (الذي يغطي العمال في حالة الحوادث

السلامة المجتمعية

- يجب وضع خطط أمن وأمان كافية لمنع وصول الجمهور إلى مواقع العمل والمواد الخطرة والمخلفات
 - يجب على المقاول الالتزام بخطة إدارة المخلفات لتجنب أي عوائق أو مخاطر على السلامة.
 - يجب توفير آلية للتظلمات لضمان التواصل الفعال فيما يتعلق بمخاوف المجتمع.

<u>السلامة المرورية</u>

- يجب تثبيت لافتات أمان لإخطار المجتمع بأن مركبات البناء ستستخدم الطرق المؤدية إلى محطة المياه
 - يجب على المقاول التأكد من أن النقل المرتبط بالبناء يتوافق مع حدود السرعة

عمالة الأطفال

- يجب كتابة شروط صارمة في عقد المقاول لحظر تعيين الأطفال دون سن ١٨ عامًا
 - يجب أن يحتفظ المقاول بنسخة من هويات جميع العاملين

التراث الثقافي

- إعداد مدونة سلوك مناسبة تنص على التزام العمال تجاه فئات المجتمع والسلوكيات التي يجب تجنبها

تعريف بمدونة قواعد السلوك يتم إجراؤه كل أسبو عين للعاملين الدائمين والوافدين الجدد قبل بدء العمل.

- يجب تدريب جميع العاملين على قواعد السلوك.
- - - - يجب توقيع قواعد السلوك من قبل المقاول من الباطن
- تطبيق المتطلبات الكاملة المتعلقة بتشغيل آلية التظلم بما في ذلك القنوات المجهولة. - زيادة وعي السكان المحلبين حول التزام المشروع تجاه المجتمعات والتدابير المتخذة لذلك من خلال المشاورات العامة ومناقشات على شكل مجاميع.
 - تطبيق العقوبات على العاملين المخالفين لقواعد السلوك
 - البنية التحتية وإلمرافق
- في حالة تلف أحد المرافق الموجودة تحت الأرض وأنابيب البنية التحتية ، يجب اتباع الإجراءات القياسية ، بالإضافة إلى إعداد تقرير توثيقي للحادث.
 - في حالة قطع المياه، يجب إعلام المجتمع المحلي قبل القطع
 - تنفيذ آلية للشكاوي
 - إدارة الخدمات الموقعية
 - إقامة المخيم داخل أر إضبى محطة المياه
 - ضمان إقامة كرفانات البناء الملائمة ومرافق الصرف الصحى للبناء، أي إنشاء خزان لتخزين المياه العادمة المنزلية الناتجة عن المخيم.
 - اتباع أفضل ممارسات إدارة المخلفات وتدابير التخفيف الواردة في خطة الإدارة البيئية والاجتماعية.
 - مراقبة ظروف العمل عن كثب ، وفرض تدابير للتحكم في انتقال الأمراض المعدية.
- الحفاظ على آلية فعالة للتظلم (تمت مناقشتها في فصل مشاركة أصحاب المصلحة). يجب أن تكون آلية معالجة المظالم هذه حساسة للنوع الاجتماعي وتضمن السرية
 - انخراط محدد مع النساء والفتيات يتضمن التوعية بالعنف القائم على النوع الاجتماعي والوصول إلى قنوات مجهولة للإبلاغ عن الحالات.

العقوبات والغاء التعاقد

إذا فشل المقاول في الوفاء بأي من الالتزامات المذكورة أعلاه بموجب العقد ، فسيتم تطبيق العقوبات التالية:

التفاصيل	الإجراء	المراحل
يجب أن يتلقى المقاول بيان تحذير يتضمن الإجراء التصحيحي المقترح.	التحذير	المرحلة الأولي
يجب أن تبدأ جميع الإجراءات التصحيحية في مدة لا تزيد عن أسبوعين.		
يجب على المقاول اتخاذ الإجراء التصحيحي بشكل سريع.		
في حالة عدم النزام المقاول بخطة الإدارة البيئية والاجتماعية ، لا يحق للمقاول الحصول على الدفعات النقدية بموجب	الدفعات النقدية	المرحلة الثانية

شروط هذا العقد.		
لن يتم صرف المدفوعات حتى يتم وضع خطة عمل واضحة ويبدأ المقاول في تنفيذ الإجراءات المتفق عليها.		
لن يتم إنهاء العقد بسبب عدم الوفاء بالتزامات خطة الإدارة البيئية والاجتماعية. ومع ذلك ، سيخصم مالك المشروع تكلفة تنفيذ خطة الإدارة البيئية والاجتماعية من العقد. وفي هذه الحالة يجب إرفاق دليل واضح على فشل المقاول في تنفيذ خطة الإدارة البيئية والاجتماعية	إلغاء التعاقد	المرحلة الثالثة