# **EPUBLIC OF IRAQ**

## **MINISTRY OF PLANNING**

Iraq Social Fund for Development SFD (P163108)

### ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

FOR THE

### CONSTRUCTION WATER NETWORK IN 6 VILLAGES (BAGHEMRA SHIHAB, BEN BIRZI KAWORA, KHATI, SHEIKHA SHELL, KAYNJI KORA, KAZANA).

IN <u>Erbil Governorate</u>

**17**<sup>TH</sup> AUGUST **2023** 

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

INSTITUTIONAL &	ADMINISTRATIVE
Country	IRAQ
Project Title	CONSTRUCTION WATER NETWORK IN 6 VILLAGES (BAGHEMRA SHIHAB, BEN BIRZI KAWORA, KHATI, SHEIKHA SHELL, KAYNJI KORA, KAZANA) \ ERBIL GOVERNORATE.
	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
Introduction	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 socio-economic impacts of the project (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 LOCATIO	DN & SITE DESCRIPTION

Project Location	is required to implement t the World Bank's Operation <b>HATI, SHEIKHA SHELL, KAYN</b> ernorate of ERBIL that is located overnorates of Sulaymaniah, Duh on in each village are shown in t	ed ial fill on ne nis he nal JI in ok					
Table 1: Information about the villages       No.     Village     Length     Population     Coordinates							
	1	BAGHEMRA SHIHAB	(Km) 3	5225	36.06425 , 44.0624		
	2	BEN BIRZI KAWORA	6.36	3885	36.09362, 43.52378		
	3	KHATI		4686	36.4344633 , 44.50564		
	4	SHEIKHA SHELL	0.6	13750	36.17476 , 44.00427		
5 KAYNJI KORA 1.65 2600 36.19267 , 43.48239							
	6	KAZANA	4	6585	36.21370, 43.55479		
	Total 15.61 KM 36731						
	NotePopulation numbers were inferred through community mobilization procedures in Erbil						

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

		And Andrew Contraction of the second	events are region of regio				
			Figure 1: Project Location				
	<ul> <li>The area adjacent to the subproject's sites are characterized as rural residential and semi desertic in some areas. The subprojects are located within the residential part of the area. There are no protected areas or endangered species (there are no critical or high biodiversity values that might be affected) in the vicinity of the site. There are no close sensitive receptors located near the subprojects site. The subproject aims to:</li> <li>To provide a good sanitary environmental condition of village and subsequently protecting public health.</li> <li>Ensure the produced water quality is within the quality standards.</li> </ul>						
Project Duration	The a	inticipated project d	uration is Sixth months (180 days) for the water network.				
	The proposed activities for these six villages in the Erbil Governorate are presented in the table below:						
	No.         Village         Type of implantation						
Proposed Project	1	BAGHEMRA SHIHAB	Construction of water network with a length of 3km by Using plastic pipes diameter 110 mm, and Drilling two wells and preparing a plunger with the construction of two chambers for the two wells.				
Activities	2	BEN BIRZI KAWORA	Construction of 3 tank with capacity of (38.5m3), and Construction a water network with different diameters of (63,75,90,125,110) mm with a total length of 6365 meters.				
	3	KHATI	Construction of concrete tank with dimensions (7 * 6 * 2) m and connect it to the old network with the processing of a diver and a water pump.				

4 SHEIKHA SHELL		construction of a water network with a length of 600 meters, drilling a well, equipping and installing a diver with the construction of a well chamber.
5	KAYNJI KORA	Construction of water network With a length of 1651 meters, and construction of 2 tank , the processing and installation of a plunger and pumps with the construction of a room for the well.
6	KAZANA	construction of a water network with a length of 4000 meters, drilling 2 well , with equipping and filling a diver with the construction of a well room.

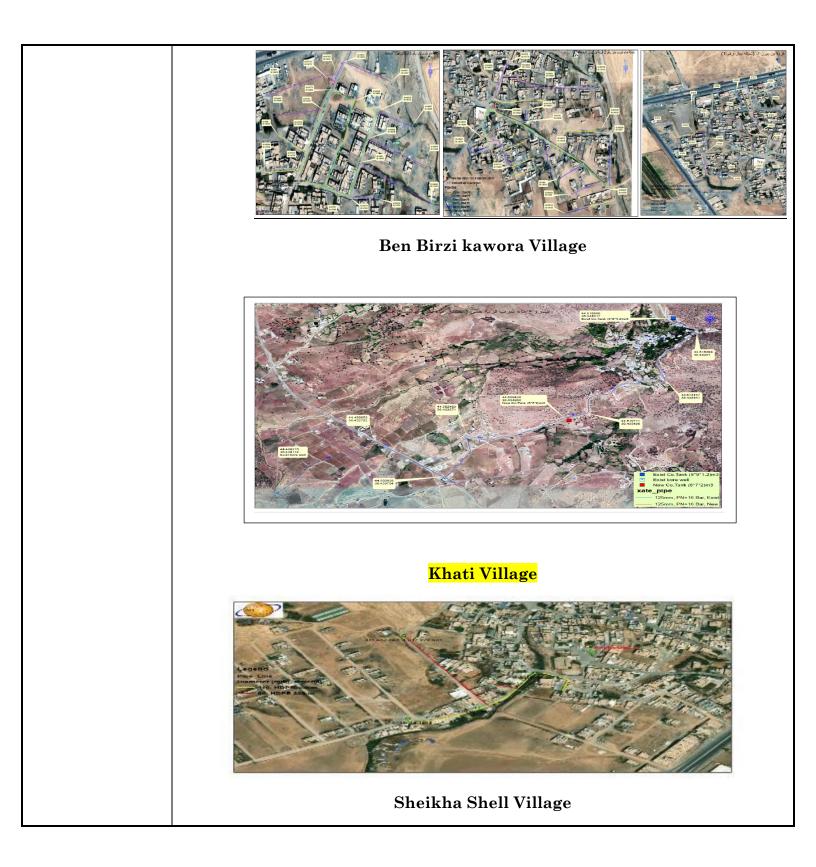
The main steps that happened to the water to be compatible with the legislations and water quality standards are:

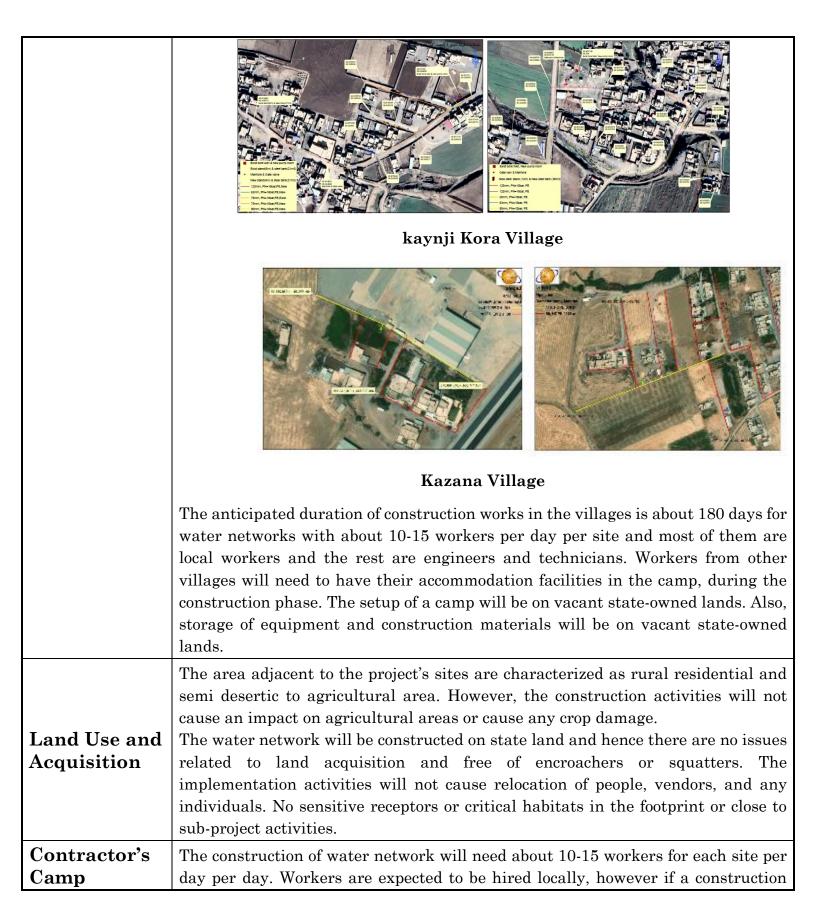
- 1. Providing the necessary materials and equipment for excavating trenches at a depth of 120 cm and a width of 90 cm including cracking the sidewalks and streets.
- 2. Laying down and connecting plastic pipes and then wrapping the pipe with clean soil followed by connecting households by 0.5-inch diameter.
- 3. Backfilling of the trenches by used excavated soil at a height of (0.55 m), rehabilitation and restoration of sidewalks and streets (if any) that were demolished and returned as it was with the removal of excess construction wastes. The excavated soil resulting from the digging will be used for backfilling and refilling. However, if any surplus materials (excavated soil) remained, there will be coordination with the municipal local authority to properly dispose of the remaining material in the designated landfill.

As per design of the water distribution network, these pipes will be installed within the right of way and side walk of streets inside residential area of the village. It is not expected that these pipes will pass through agricultural/private lands and/or cause any restriction of access and livelihood impacts. Below is the network layout.



**Baghemra Shihab Village** 





	camp is deemed necessary, it will be installed on vacant state-owned land. Portable holding tanks will be installed in the subproject, waste will be collected and disposed in an authorized waste treatment plant/authorized disposing site to be determined later by 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.
	The construction camp should have independent sources of water and electricity, and an adequate Holding 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 areas and will return to their homes / that's mean they don't need to accommodation. And there skills (According to the nature of the work and will be guided by craftsmen).
PROJECT BASELIN	CONDITIONS
Geographic Conditions	The areas of the subproject have some mountains, cliffs, and valleys. There are no protected areas or endangered species. In the project area, the elevation is about 426m AMSL. No natural land obstacles are presented in the subproject areas.
Climate, Air Quality and noise	<ul> <li>ERBIL (or Hewler in Kurdish) governorate is located in the northern part of Iraq. The governorate's terrain mostly consists of mountain slopes, hills and valleys. The average temperature ranges from 6.3 °C (43.4 °F) in January to 35 °C (94.9 °F) in July. So, to 29.4 °C (84.8 °F) in September. The summer season (June-September) is hot and dry, while the winters are colder and wet.</li> <li>In ERBIL annual precipitation amounts to 63.18mm (2.49 in), most of which occurring from November to April, while it never rains from June to September. Here is the average precipitation. Erbil climate: Temperature Erbil &amp; Weather By Month (climate-data.org).</li> <li>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).</li> <li>Currently, there is no traffic congestion and consequently the existed noise level is</li> </ul>
Undnogoolog	within the normal levels. Flooding of the area near the project has not been reported in the past years.
Hydrogeology Conditions	r toouning of the area hear the project has not been reported in the past 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	There are no sites of historical or cultural importance in the area. There are no
Environment	cemeteries, historical-cultural monuments, churches, mosques near the project
	that need to be removed or will be impacted due to the construction activities.
	The population of these projects area is approximately 36731.
	The suggested areas of the roads will be on state land, where no land or property
a .	expropriation will be necessary and is free from encroachers or squatters. All the
Socio-	areas around the sites remain clear of any settlement or economic use and are ready
economic	for construction works, no interference is registered from the local community
Aspects	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 & PO	LICIES
	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
	<ul> <li>Instructions No. 2 of 2014 on Environmental Protection from Municipal Waste;</li> <li>Law No. 2 of 2001 on Conservation of Water Resources.</li> </ul>
	<ul> <li>Law No. 2 of 2001 on Conservation of Water Resources.</li> <li>Instructions no. 3 of 2015 on Hazardous Waste Management;</li> </ul>
	<ul> <li>Law No. 6 of 1988 concerning the National Commission for Occupational</li> </ul>
	Hygiene and Safety;
National &	Instructions No. 12 of the year 2016: Occupational Health and Safety;
Local	➤ Labor Law No. 37 of 2015;
Legislation	Law no. 89 of the year 1981, amended by Decree No.54 of 2001: Public Health;
and World	Law No. 41 for the year of 2015: Noise Protection and Control;
Bank Policies	Public Roads Law No. 35 of 2002; Instructions No. 2 of 2019: National Emissions' Determinants for Astivities and
	<ul> <li>Instructions No.3 of 2012: National Emissions' Determinants for Activities and Businesses by the Ministry of Health and Environment;</li> </ul>
that Apply to	<ul> <li>Regulation No. 4 for the year of 2012: Ambient Air Quality;</li> </ul>
the Project	<ul> <li>World Health Organization (WHO) Guidelines for Drinking Water Quality<sup>2</sup></li> </ul>
	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
	<ul><li>activities are not expected to pose risks of damaging cultural property).</li><li>▶ labor influx guidance note (2016).</li></ul>
	$\sim$ 1abol IIIIux guidance note (2010).

<sup>&</sup>lt;sup>2</sup> https://www.who.int/publications/i/item/9789241549950

The EHS gui	<sup>3</sup> General Environmental, Health, and Safety guideline <sup>3</sup> delines entail effective methods for managing environmental, health and in accordance with WBG requirements. This includes understanding the
likelihood, m primary section	agnitude, and priority of the EHS risks. The EHS guidelines include 4 ons and respective subsections (applicable segments from the EHS guidelines
for the sub-pr	oject are highlighted in <b>Red</b> ):
1. <u>Enviro</u>	nmental Guidelines
1)	Ambient Air Quality – Limits and Guidelines
2)	<b>Energy Conservation</b> – Energy Conservation and Efficiency Methods
3)	Water and Sanitation <sup>4</sup> - The EHS Guidelines for Water and Sanitation include information relevant to the operation and maintenance of (i) potable water treatment and distribution systems, and (ii) collection of sewage in centralized systems (such as piped sewer collection networks) or
	decentralized systems (such as septic tanks subsequently serviced by pump trucks) and treatment of collected sewage at centralized facilities.
4)	<b>Wastewater and Ambient Water Quality</b> – Effluent water quality and indicators for water discharge and treatment
5)	Water Conservation – Methods for ensuring reduction in water consumption
6)	Hazardous Material Management – The appropriate Methods for managing hazardous waste and instructions on community and worker protection
7)	<b>Waste Management</b> – Instructions on waste management and planning, waste prevention and safe waste disposal
8)	<b>Noise</b> – Methods for prevention and control of Noise, and the applicable noise limits for different activities and exposure period
9)	<b>Contaminated Land</b> – Management approaches for contaminated land due to different hazardous substances or waste or oil. Includes Risk
	Reduction measures
2. <u>Occup</u>	ational Health and Safety Guidelines <sup>5</sup>
1)	<b>General Facility Design and Operation</b> – ensuring appropriate facility integration of H&S, that integrates safety measures in design for different physical hazards

<sup>&</sup>lt;sup>3</sup> <u>https://www.ifc.org/wps/wcm/connect/29f5137d-6e17-4660-b1f9-02bf561935e5/Final%2B-%2BGeneral%2BEHS%2BGuidelines.pdf?MOD=AJPERES&CVID=nPtguVM</u>

<sup>&</sup>lt;sup>4</sup> <u>https://www.ifc.org/wps/wcm/connect/0d8cb86a-9120-4e37-98f7-cfb1a941f235/Final%2B-%2BWater%2Band%2BSanitation.pdf?MOD=AJPERES&CVID=nPtk0wW</u>

<sup>&</sup>lt;sup>5</sup> https://www.ifc.org/wps/wcm/connect/1d19c1ab-3ef8-42d4-bd6b-

 $<sup>\</sup>underline{cb79648af3fe/2\%2BOccupational\%2BHealth\%2Band\%2BSafety.pdf?MOD=AJPERES\&CVID=nPtgxyx$ 

2)	<b>Communication and Training</b> – Ensuring there is an appropriate level
	of communication between workers and management, and that there is
	sufficient training for all workers prior to operations
3)	<b>Physical Hazards</b> – Methods for prevention of accidents or injuries that
	can occur due to exposure to mechanical or other physical works, including
	Noise and Vibrations
4)	<b>Chemical Hazards</b> – Injuries and accidents that could occur due to usage
	of chemicals and methods of protection and prevention. Includes
	management of fires and explosions
5)	Biological Hazards – Protection and Management of different biological
	agents
	Radiological Hazards – Management and Limits for Radiation Exposure
7)	<b>PPE</b> – Guidance on usage of PPE and clearly highlighting that it should be
	considered the last resort
8)	Special Hazards Environments – Guidance on Managing different
	environments that can present a risk to workers such as confined spaces.
9)	Monitoring – Efficient monitoring of occupational health and safety
	programs and mitigation measures. This includes the Occupational Accident
	Reporting frequency
	unity Health and Safety Guidelines <sup>6</sup>
1)	Water Quality and Availability – Ensuring the protection of nearby water
	resources such as groundwater and surface water sources.
2)	<b>Structural Safety of the Project</b> – 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
9)	Life and Fire Safety (L&FS) – Ensuring that building design is in
3)	accordance with local regulations and requirements, and that it integrates
	Fire safety standards (more focused on buildings rather than infrastructure)
4)	<b>Traffic Safety</b> – 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
5)	Transport of Hazardous Material – Approach and Guidelines for
	transport of hazardous material – Approach and Guidennes for transporting hazardous material, including a hazard assessment and
	emergency response plan.
6)	<b>Disease Prevention</b> – Includes the recommended interventions and
	methods to protect the community from communicable diseases and vector
	borne diseases

<sup>&</sup>lt;sup>6</sup> <u>https://www.ifc.org/wps/wcm/connect/eeb82b4a-e9a8-4ad1-9472-</u> f1c766eb67c8/3%2BCommunity%2BHealth%2Band%2BSafety.pdf?MOD=AJPERES&CVID=nPtgxTd

	<ul> <li>7) Emergency Response and Preparedness – This 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</li> <li>4. Construction and Decommissioning Guidelines<sup>1</sup></li> <li>1) 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.</li> <li>2) Occupational Health and Safety – Different OHS risks due to construction or decommissioning works</li> </ul>
	3) Community Health and Safety – Different Hazards that can occur due to
	<ul><li>the project and affect the surrounding community.</li><li>4) Grievance Redress Service</li></ul>
PUBLIC CONSUL	TATION & GRIEVANCE REDRESS MECHANISMS
Public Consultation Process	<ul> <li>The consultations were carried out in the village for the construction of the subproject the water treatment and the network on the October 2022.</li> <li>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.</li> <li>The purpose of conducting the consultation activities is to achieve the following: <ol> <li>Discuss project objectives and their subproject activities.</li> <li>Disclose information regarding the Grievance Mechanism resources in place.</li> <li>Discuss anticipated environmental and social impacts associated with the project.</li> </ol> </li> <li>The formatted questionnaire was then addressed to 20 women and 52 men in the surrounding community in six Villages randomly to have their opinions and thoughts regarding the construction activities.</li> <li>Consultation Results: All interviewees expressed their hope that the completion of the project. Therefore, they link the project with improving their living conditions and the development of the area economically. 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 construction of the complet's because they heard of many planned projects in their district but have not seen them being completed. The participants in the village expressed that the construction of the construction of the project. All participants in the village expressed that the construction of the complet'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</li></ul>

<sup>&</sup>lt;sup>7</sup> https://www.ifc.org/wps/wcm/connect/7d708218-2a9e-4fcc-879d-

<sup>9</sup>d5051746e7d/4%2BConstruction%2Band%2BDecommissioning.pdf?MOD=AJPERES&CVID=nPtgy6x

	<ul> <li>to Annex 1 and Annex 2 for sample of the consultations for both men and women in these villages. 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: <ol> <li>No deportation or dislocation of any of the local community will be needed due to these activities.</li> <li>No vegetation covers, crops, plants, treesetc. will be removed in order to execute the construction activities.</li> <li>No infrastructure will be affected negatively due to the construction activities.</li> <li>The questioned local people agreed that the construction activities will have a strong positive impact from the social perspectives on the local residents.</li> <li>No claims from any local population were recorded or alleged regarding the ownership of the land where the construction activities are to take place.</li> </ol> </li> </ul>			
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:			
	#NameJob TitlePhone NumberE-mail1Husam A. ShaaelGRM Team leader07833344263 07733344263Sfd.grm.iraq@gmail.com			
	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	Ibrahim O.Braeem	SFD Team leader	07504685188	Ibrahim,braeem@gmail.com	
2	Maryam J. Ramadan	Env. & Soc. officer	07506844490	Eng.Suzan.dd@gmail.com	
3	Azhin S. Hassan	GRM officer	07708092314	Azhinsaleem80@gmail.com	

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 Logbooks, 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.

#### <u>High-Level Feedback</u>

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 within 24 hours during workdays 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.

#### <u>Standard-Level Feedback</u>

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 and Arabic, will be published on the WB, SFD and Ministry of Planning websites and also will be available locally (such as at local SFD office).
INSTITUTIONAL CA	PACITY BUILDING
Will there be any capacity building?	[] N or [x]Y It is recommended to provide safety training and induction sessions for 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	MENTAL /SOCIAL SCREEN	ING FOR	SAFEGUARDS TRIGGERS
	Activity / Typology	Status	Triggered Actions
	1. Re/construction of compact water unit	[ <mark>X</mark> ] Yes [ ] No	This subproject is construction of compact water unit and water networks.
Will the	2. Reconstruction of / impacts on surface drainage system	[ ] Yes [ <b>X</b> ] No	The subproject doesn't have an impact on Surface drainage system
site activity	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
include/in volve any of the	4. Required acquisition of land or temporary / permanent impacts on livelihoods	[ ] Yes [ <mark>X</mark> ] No	No land acquisition is required for this subproject as the activities will be constructed on state owned land.
following?	5. Handling or presence of hazardous or toxic materials	[ <mark>X</mark> ] Yes [ ] No	There are toxic or hazardous materials generated by the project.
	6. Impacts on forests and/or protected areas	[ ] Yes [X] No	There are no forests or protected areas surrounding the subproject area.
	7. Risk of unexploded ordinance (UXO)	[ ] Yes [ <mark>X</mark> ] No	An official clearance letter has been provided by authorities (Annex 4).

#### PART C: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP) FOR THE SUBPROJECT PHASES

or/E HS Aspectof Supervi sionImplemen tationSu sionAspectDust and exhaust emissions• Have a maintenance plan for the construction equipment to minimize exhaust emissions.• Site inspe ctionContractorRei En r / the ass ction*Dust and exhaust emissions• Have a maintenance plan for the construction equipment to minimize exhaust emissions.• Site inspe ction• ContractorRei En r / the ass d*Adopt a policy of switching off machinery and equipment when not in use (idle mode).• Revie main ts**Spray the soil before and during excavation activities, if necessary, to reduce dust emissions.• Revie w the com plain ts*Store construction materials in pre- identified storage areas. For example, any excavated material must remain in a confined area until disposal from site.• Revie w the com plain ts*Set an appropriate speed limit (typically 10-15 km/h) for the vehicles operating within the• Ste the	·		Respons	Means	Mitigation Measures	Impact	Recept
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<ul> <li>must remain in a ts</li> <li>confined area until disposal from site.</li> <li>Set an appropriate speed limit (typically 10-15 km/h) for the vehicles operating within the</li> </ul>					1 7		
<ul> <li>confined area until disposal from site.</li> <li>Set an appropriate speed limit (typically 10-15 km/h) for the vehicles operating within the</li> </ul>				_			
<ul> <li>disposal from site.</li> <li>Set an appropriate speed limit (typically 10-15 km/h) for the vehicles operating within the</li> </ul>				15			
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limit (typically 10-15 km/h) for the vehicles operating within the							
km/h) for the vehicles operating within the							
operating within the							
SUP DOUDORTIPS					site boundaries.		
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.							

<sup>&</sup>lt;sup>8</sup> <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

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E HS Aspect			of Supervi sion	Implemen tation	Supervi sion	ed Cost
		<ul> <li>Providing some indigenous species of vegetation, which will also reduce dust level.</li> <li>Demolition debris, excavated soil and aggregates shall be kept in controlled area and sprayed with water mist to reduce debris dust when necessary</li> <li>proper stacking of material and avoiding excavation or other activities during high wind periods.</li> </ul>				
Noise <sup>9</sup>	The operation of heavy constructi on equipment will lead to an increase in ambient noise levels.	<ul> <li>Switch off any equipment if not in use.</li> <li>Ensure that machinery is in good condition by implementing a maintenance plan.</li> <li>Construction noise will be limited to restricted times agreed to in the permit</li> </ul>	Site inspectio n Review the equipme nt maintena nce records. Review complai nts/ grievanc e log.	Contractor	Resident Enginee r / the assigne d E&S specialis ts from PMT	Within contract or's cost
Waste Genera tion	Inappropri ate handling of hazardous or non- hazardous waste can lead to soil contaminati on. Also, not	<ul> <li>Implement a waste management plan consisting of the following measures.</li> <li>For solid waste:</li> <li>Identify waste types and quantities</li> <li>Allocate a skip/bin to each type of waste</li> <li>Create a confined area on site to store excavated</li> </ul>	Field investiga tions. Review waste register. Review the complai nts reports.	Contractor	Resident Enginee r / the assigne d E&S specialis ts from PMT	Within contract or's cost

<sup>9</sup> <u>https://www.ifc.org/wps/wcm/connect/4a4db1c5-ee97-43ba-99dd-8b120b22ea32/1-</u> 7%2BNoise.pdf?MOD=AJPERES&CVID=nPtgwZY

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E	-		of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
	removing	material, if there is a				
	domestic	need to.				
	waste on a	• Allocate a space on site to				
	periodic	store construction				
	basis will	debris and scrap material such as old				
	lead to its	pipes, broken doors				
	accumulati	and windows.				
	on and	• Contract a licensed solid				
	consequent	waste contractor/scrap				
	ly to	dealer to collect				
	significant bacterial	domestic waste on a				
		daily basis and other				
	presence on site.	scrap waste also on a				
	on site.	regular basis.				
		• The waste management				
		areas must be part of the construction site				
		and should not				
		interfere with any				
		activities outside the				
		boundaries of the				
		subproject.				
		• 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.				
		• The excavated soil				
		resulting from the				
		digging will be used for				
		backfilling and				
		compacted very well.				
		However, if any surplus materials (excavated				
		soil) will remain, there				
		is a need to coordinate				
		with the municipal local				
		authority to properly				
		dispose of the				
		remaining material.				
		For Hazardous waste				
		and substances:				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/Ē	<b>^</b>		of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
		• If there will be a diesel				
		tank on site, it must be				
		shaded and placed on				
		an impervious surface such as concrete.				
		• Store used oils in barrels				
		until final disposal and				
		place them on a				
		retention basin.				
		• Contract a hazardous				
		waste contractor to				
		collect the hazardous waste and transport it				
		to an authorized				
		facility/dumping site,				
		which will be identified				
		by local authorities.				
		• Safe handling using the				
		proper PPEs and safety precautions.				
		<ul> <li>Make a register of the</li> </ul>				
		quantities that have				
		been disposed of.				
		For Liquid waste:				
		• The holding tank				
		connected to the site				
		offices must be emptied				
		on a frequent basis by a licensed waste				
		company.				
Water	Surface	• The contractor must	Field	contractor	Resident	Within
Polluti	water may	follow the solid and	investiga		Enginee	contract
on	be polluted	hazardous waste	tion		r /	or's cost
	by	mitigation measures			the	
	improper	presented in this ESMP to limit the			assigne	
	waste	possibility of water			d E&S	
	handling,	pollution that may			specialis	
	given that the	result from			ts from	
	Euphrates	inappropriate handling			PMT	
	river is only	of waste.				
	100 m	• No washing,				
	away.	maintenance or service				
	-	of vehicles and				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E			of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect		machinery alose to	sion			
		machinery close to water bodies.				
		• The contractor must follow the solid and hazardous waste mitigation measures presented in this ESMP to limit the possibility of water pollution that may result from inappropriate handling of waste.				
		• Construction material and stockpiles should be covered to avoid run-off to water bodies.				
		• Wastewater from the worker rest areas or construction offices should be contained in septic tank and should be removed regularly from site by the authorized wastewater trucks				
		• In case of the need to change engine, oils or refuel some construction equipment, a proper maintenance workshop or shelter should be installed to ensure containment of any fuel or oil spills.				
Soil	Contaminat	• The contractor must	Field	Contractor	Resident	Within
	ion through	follow the solid and hazardous waste	investiga tion		Enginee r /	contract or's cost
	leakages	mitigation measures			the	52 0 0000
	from	presented in this				
	equipment,	ESMP to minimize the			assigne	
	holding	possibility of leakages to the soil. Other			d E&S	
	tanks or	measures to minimize			specialis	

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E			of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect	chemical	soil contamination	sion		ts from	
	containers	include:				
	improper	<ul> <li>Adopting strict spill</li> </ul>			PMT	
	disposal of	control procedures and				
	solid or	developing a spill				
	hazardous	response and				
	waste.	management plan.				
		<ul> <li>Storing oil and chemical materials in</li> </ul>				
		an appropriate location				
		that has a protective				
		base and a lip, such as a				
		concrete slab, to				
		prevent any penetration into the				
		ground.				
		• Reuse the excavated				
		soil when it deemed				
		technically appropriate.				
		Preventing loose				
		material (soil and equipment) from				
		falling or rolling into				
		the excavation by				
		removing this material				
		to a minimum of 0.5				
		meter from the edge of the excavation				
		Marking excavation				
		with physical				
		boundaries (barriers,				
		tape or fence).				
		• Follow the solid and				
		hazardous waste mitigation measures				
		mitigation measures presented in this				
		ESMP to minimize the				
		possibility of leakages				
		to the soil.				
		Restoration of topsoil				
		and damaged areas must take place after				
		construction phase				
		end.				
		• Ensure appropriate				
		and safe storage of				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E HS Aspect			of Supervi sion	Implemen tation	Supervi sion	ed Cost
		containments such as fuels, construction materials and wastes.				
s safety al	Decupation health hd safety	<ul> <li>materials and wastes.</li> <li>The Contractor shall prepare an Occupational Health and Safety Plan and job hazard instructions during the construction phase.</li> <li>The contractor will also assign a competent person to supervise the plan. Some of the main mitigations measures that must be included in the plan are as follows:</li> <li>Workers should be trained to identify and evaluate fall hazards and be fully aware of how to control exposure to such risks.</li> <li>Workers and site personnel must always use personal protective equipment when dealing with toxic material.</li> <li>Workers must comply with OSHA's general rule for the safe use of ladders.</li> <li>To prevent heavy construction equipment risk, workers should follow construction equipment is and accidents.</li> <li>Emergency equipment (spill-kit, fire extinguishers, etc) must always be</li> </ul>	• Contr actual clause s + Field super vision	Contractor' s health and safety officers	Resident Enginee r/ the assigne d E&S specialis ts from PMT	Within contract or's cost

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E	<b>^</b>	0	of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
		<ul> <li>available on-site and functional.</li> <li>Initial and periodic health checks must be provided to the workers.</li> <li>The plan must include Covid-19 response measures.</li> <li>Workers must be provided with health care insurance (that covers provision of medical support in case of being infected by diseases) and safety insurance (that covers workers in case of incidents and accidents)</li> <li>Suitable working platforms, with suitable guard rails and toe boards, should be provided for work at height. Safe means of access and egress should be provided for the working platform.</li> <li>Suitable guard-rails and toe-boards should be provided for work at height. Safe means of access and egress should be provided for the working platform.</li> <li>Suitable guard-rails and toe-boards should be installed at edges. Openings should be properly covered where persons are liable to fall from height, to land surfaces or into water.</li> <li>Install railing around all process tanks and pits. Require use of a life line and personal flotation device (PFD) when workers are inside the railing, and ensure rescue buoys and throw bags are readily available; •</li> </ul>				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E	-		of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
HS Aspect		<ul> <li>Implement a confined spaces entry program that is consistent with applicable national requirements and internationally accepted standards. 21 Valves to process tanks should be locked to prevent accidental flooding during maintenance;</li> <li>Use fall protection equipment when working at heights;</li> <li>Maintain work areas to minimize slipping and tripping hazards;</li> <li>Use proper techniques for trenching and shoring;</li> </ul>	-	tation	sion	
		<ul> <li>Implement fire and explosion prevention measures in accordance with internationally accepted standards;</li> <li>When installing or repairing mains adjacent to roadways, implement procedures and traffic controls, such as: o Establishment of work zones so as to separate workers from traffic and from equipment as much as possible o Reduction of allowed vehicle speeds in work zones; o Use of high-visibility safety apparel for workers in the vicinity of traffic o For night work, provision of proper illumination for the work space, while controlling glare so as not to blind</li> </ul>				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/Ê		U U U U U U U U U U U U U U U U U U U	of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
		<ul> <li>workers and passing motorists</li> <li>Locate all underground utilities before digging.</li> <li>Installation of guardrails with midrails and toe boards at the edge of any fall hazard area</li> <li>Proper use of ladders and scaffolds by trained employees.</li> <li>Use of fall prevention devices, including safety belt and lanyard travel limiting devices to prevent access to 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</li> <li>Appropriate training in use, serviceability, and integrity of the necessary PPE ·</li> <li>Inclusion of rescue and/or recovery plans, and equipment to respond to workers after an arrested fall.</li> <li>Make sure all walking areas and work surfaces are clean, dry, clear of debris, etc.</li> <li>Keep stairs, ladders, doorways, ramps, walkways, and gangways clear.</li> </ul>				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E			of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
Local Comm unity <sup>10</sup>	Communit y health and safety	<ul> <li>Safely secure ramps or gangways when loading and offloading.</li> <li>Wear footwear with slip-resistant soles.</li> <li>Eliminate unusable impounded water, and apply vector control programs</li> <li>Erect suitable and adequate warning signage along culvert cleaning and excavation sites</li> <li>Signs and awareness should be installed close to the excavation area to protect road users and community.</li> <li>Prepare and implement a security plan to prevent public access to the work site, hazardous materials, and waste</li> <li>The contractor must abide by the waste management plan in order not to negatively affect the safety of the surrounding communities.</li> <li>A grievances mechanism should be provided to ensure effective communication regarding community and school children should be provided with safe access roads to their schools and commercial areas,</li> </ul>	<ul> <li>- Griev ances log</li> <li>- Accid ents log</li> </ul>	Contractor	Resident Enginee r / the assigne d E&S specialis ts from PMT	Within contract or's cost

<sup>&</sup>lt;sup>10</sup> https://www.ifc.org/wps/wcm/connect/1d19c1ab-3ef8-42d4-bd6b-

cb79648af3fe/2%2BOccupational%2BHealth%2Band%2BSafety.pdf?MOD=AJPERES&CVID=nPtgxyx

Recept	Impact	Mitigation Measures	Means	Responsibility		Estimat	
or/E HS Aspect			of Supervi sion	Implemen tation	Supervi sion	ed Cost	
		particularly, as the project will dig streets. Safe access roads can be provided with lights in order to avoid falls of pedestrians during night.					
Local Comm unity	Traffic safety	<ul> <li>Safety signs must be installed to notify the community that construction vehicles will be using the roads leading to the water units</li> <li>The contractor must set a speed limit for construction vehicles while they operate outside the site boundaries.</li> </ul>	<ul> <li>Accid ents log</li> <li>Com munit y grieva nce mech anism</li> </ul>	Contractor in coordinatio n with the traffic department	Resident Enginee r / the assigne d E&S specialis ts from PMT	Within contract or's cost	
Local Comm unity	Child Labour	<ul> <li>The ToR of the contractor must prohibit all forms of child labor in the subproject (below 18 years old) and specify the appropriate penalties.</li> <li>The ToR shall also oblige the contractor/subcontractor r to keep a copy of IDs of workers in order to monitor their age.</li> </ul>	• Work ers atten dance sheets	Contractor	Resident Enginee r/ the assigne d E&S specialis ts from PMT	Within contract or's cost	
Local Comm unity	Cultural heritage	<ul> <li>Chance find procedures are included in Annex 5 in order to provide guidance in case of finding any cultural heritage objects</li> </ul>	• The chanc e find proce dures are availa ble	Contractor	Resident Enginee r/ the assigne d E&S specialis ts from PMT	Within contract or's cost	
Local Comm unity	Temporary labour influx	• Prepare a code of conduct that stipulates the different commitments of labour	<ul><li>Site visit</li><li>Mont hly</li></ul>	Contractor	Resident Enginee r/	Within contract or's cost	

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E	-		of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
Local Comm unity	GBV	<ul> <li>towards community groups. The CoC must be signed by the contractor.</li> <li>All workers should be trained on the Code of Conduct.</li> <li>Apply Penalties to workers who violate the code of conduct</li> <li>Ensure smooth operation of the grievance mechanism and the anonymous channels</li> <li>Raise the local population's awareness about the subproject's commitment towards communities, and the measures taken through public consultation and focus group discussions</li> <li>Conduct initial and periodic health checkups on workers and provide the necessary care accordingly</li> <li>The code of conduct (CoC) must include the prevention of sexual exploitation and sexual harassment at the workplace</li> </ul>	<ul> <li>report ing</li> <li>GRM</li> <li>Meetings with surro undin g com munities</li> <li>Mont hly report ing</li> <li>GRM</li> </ul>	Contractor	the assigne d E&S specialis ts from PMT PMT Resident Enginee r/ the assigne d E&S	Within contract or's cost
		<ul> <li>CoC needs to consider privacy in setting up the household connections.</li> <li>Maintain an efficient gender sensitive grievance mechanism for both local community and workers.</li> </ul>			d E&S specialis ts from PMT	

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E			of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect	I.C. (		sion		D 1	W/: 1 ·
Local Comm	Infrastruct ure and	Coordinate with the departments of potable	• Revie	Contractor	Resident Enginee	Within contract
unity	undergroun	departments of potable water, wastewater,	W		r / PMT	or's cost
	d utilities	electricity, and telecom	infras		,	
		authorities to obtain	tructu			
		maps/ data on	re			
		underground utilities,	accide			
		whenever available	nts			
		• In case an underground	report			
		utility and infrastructure pipe is	s.			
		subjected to damage by				
		the subproject				
		activities, standard				
		procedures should be				
		followed, in addition to				
		preparing a documentation report				
		for the accident.				
		<ul> <li>In case of water outage,</li> </ul>				
		the community people				
		should be informed				
		prior to any cut to store				
		water.				
		Maintain an efficient				
		<ul><li>grievance mechanism.</li><li>In case an underground</li></ul>				
		<ul> <li>In case an underground utility and</li> </ul>				
		infrastructure pipe has				
		been damaged,				
		standard procedures				
		should be followed, as				
		described before, in addition to preparing a				
		documentation report				
		for the accident. The				
		documentation report				
		should include:				
		- Time and place of				
		accident;				
		- Name of contractor; - Type of underground				
		utilities and infrastructure				
		line;				
		- Description of accident				
		circumstances and causes;				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E HS Aspect			of Supervi sion	Implemen tation	Supervi sion	ed Cost
		<ul> <li>Actions taken and responses of different parties, such as infrastructure company;</li> <li>Duration of fixing the damage; and</li> <li>Damage caused (description shall be according to observation, expertise judgment, reports of infrastructure company)</li> <li>Quick restoration and effective communication with regarding work and restoration schedule</li> </ul>				
Worker s	Manageme nt of onsite facilities	<ul> <li>Establish the caravans inside water unit site.</li> <li>Ensure installation of adequate workers facilities for the construction phase; i.e. construct a holding tank to be used to collect domestic wastewater generated by the workers.</li> <li>Follow the waste management best practices and mitigation measures outlines in this ESMP.</li> <li>Monitor closely the working conditions, and impose measures that control transmission of infectious diseases.</li> <li>Maintain an efficient grievance mechanism (discussed in the stakeholder engagement chapter). This GRM should be sensitive to gender and assure confidentiality</li> </ul>	• Site inspe ctions	Contractor	Resident Enginee r/ the assigne d E&S specialis ts from PMT	Within contract or's cost

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E	<b>^</b>		of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
		<ul> <li>Specific engagement with women and girls that includes awareness on GBV and access to anonymous channels to report cases.</li> <li>Train workers on the Code of Conduct and keep close eye on any violation of the COC</li> <li>A list of recommendations, instructions, and restrictions will have to be prepared to minimize the negative ecological and social impact of the workers facilities and the restoration of the site after the construction phase.</li> <li>Provide for appropriate amenities (cating, provision of drinking water, prayer etc).</li> </ul>				
Operati	ion Phase	•				
Air Quality	Exhaust and Particulate matter emissions from generator(s ) Chlorine gas has a temporary negative impact on air quality	<ul> <li>Maintain generators regularly</li> <li>Using generators in case of emergency only</li> <li>Ensure appropriate ventilation at chlorine storage area</li> <li>Ensure chlorine container are sealed properly during storage time</li> </ul>	Site inspectio n	The manager of the water unit	Maysan Water Director ate	Operatio n cost
Noise	Pumps and	• Using rubber padding	Site visit	The	Maysan	Operatio
11	generators	when applicable to	reports	manager of	Water	n cost

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

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E HS Aspect			of Supervi sion	Implemen tation	Supervi sion	ed Cost
	(used temporary) generate noise levels felt by workers and nearest neighbors	reduce noise and vibration from operating machines • Performing regular maintenance and monitor lubrication levels of all compact unit machinery • Equipping backup	Incident s and accident s reports	the water unit	Director ate	
Waste Genera	Inappropri ate	<ul> <li>generators with silencers</li> <li>Domestic waste must be collected in bins and</li> </ul>	Field investiga	The manager of	Maysan Water	Operatio n cost
tion	handling of solid and liquid waste	<ul> <li>collected by the municipality.</li> <li>The domestic wastewater will be discharged into a holding tank and then collected by municipal trucks.</li> <li>A waste collector/scrap dealer must be contracted to collect the empty oil cans and chlorine containers.</li> <li>Maintain a waste register</li> <li>Store hazardous waste, such as paint cans and empty chlorine containers in separate skips/waste containers.</li> </ul>	tions. Review waste register. Review the complai nts reports.	the water unit	Director ate	
		<ul> <li>Minimize the quantity of solids generated by the water treatment process through optimizing coagulation processes;</li> <li>Dispose of sludge (resulting from the removal of suspended solids and dissolved contaminants) by land application if allowed,</li> </ul>				

Recept	Impact	Mitigation Measures	Means	Responsibility		Estimat
or/E			of	Implemen	Supervi	ed Cost
HS Aspect			Supervi sion	tation	sion	
		<ul> <li>in coordination with the local authority;</li> <li>Potential impact on soil, groundwater, and surface water, in the context of protection, conservation and long term sustainability of water and land resources, should be assessed when land is used as part of any waste or wastewater treatment system;</li> </ul>				
Water Polluti on	Chlorine spills or inappropria te handling of solid and liquid waste	<ul> <li>Chlorine Gas Safety Measures</li> <li>Chlorine drums must have adequate shelving in a well-ventilated area that is protected from the weather and sun exposure and ideally located downwind of commonly used structures and areas.</li> <li>Provision of a proper secondary containment area or as a spill control measures.</li> <li>The drums must be properly sealed and kept away from incompatible and flammable materials. Drums should be inspected upon receipt for structural integrity.</li> <li>Chlorine detection devices should be installed inside the storage room and</li> </ul>	Field investiga tions. Review waste register. Review the complai nts reports.	The manager of the water unit	Maysan Water Director ate	Operatio n cost

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E			of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect		chlorine injection room.	sion			
		• The chlorine injection area and storage room must be equipped with a ventilator to prevent high chlorine gas concentrations inside the room.				
		• Workers who operate the chlorine facility must always wear a chemical protective mask when handling chlorine to minimize exposure.				
		• Installation of chlorine showers and maintained to be fully functional in case of spill.				
		• Employees should be adequately trained in hazard awareness, detection and safe handling procedures to minimize potential spills.				
		• Ensure chlorine containers are always sealed properly and secured from tipping/falling/damage /direct sunlight during transportation and storage				
		• No washing, maintenance or service of vehicles and machinery close to water bodies.				
		• Store hazardous waste, such as paint cans and empty chlorine containers in separate skips/waste containers.				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	ility Estimat	
or/E HS Aspect			of Supervi sion	Implemen tation	Supervi sion	ed Cost	
		<ul> <li>Store used oils in barrels until final disposal and place them on a retention basin.</li> <li>Contract a hazardous waste contractor to collect the hazardous waste and transport it to an authorized facility/dumping site, which will be identified by local authorities.</li> <li>Maintain a waste register</li> <li>In case of the need to change engine, oils or refuel some construction equipment, a proper maintenance workshop or shelter should be installed to ensure containment of any fuel or oil spills.</li> </ul>					
Impact s on soil	Contaminat ion caused by possible leakages or spills	<ul> <li>Chemicals storage in areas with impervious floor</li> <li>Ensure liquid material/waste containers are always sealed properly and secured from tipping/falling/damage /direct sunlight during transportation and storage</li> <li>In case of spillage: avoid inhalation and sources of ignition, cover and mix with sufficient amounts of sand using PPE, collect contaminated sand in clearly marked secure containers/bags</li> </ul>	Site visit reports Incident s and accident s reports	The manager of the water unit	Maysan Water Director ate	Operatio n cost	

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/E			of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect Workf	OHS	The Component owner will	sion	The	Maysan	Operatio
orce	0115	adhere to the following	Site visit reports	manager of	Water	n cost
0100		OHS procedures:	Incident	the water	Director	11 0000
		• The use of PPE during operating the treatment unit	s and accident s reports	unit	ate	
		Maintain good housekeeping standard				
		• Maintain site security and safety.				
		• Provision of adequate firefighting equipment				
		• Inform all who may be affected by the application of water cleaning of the work arrangements and the safety measures to be taken.				
		• Limit the workers exposure to particle matter and dust emissions for extended periods by using respirators and shift rotations.				
		• Strictly adhere to the operational safety guidelines and the instructions on chlorine packages.				
		• Wash hands, face and skin that may be contaminated chemicals with water and soap.				
		• Develop occupational health and safety plan.				
		• Develop emergency plans				
		• Develop COVID-19 risk- based procedures tailored to site conditions and workers				

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat	
or/E HS Aspect			of Supervi sion	Implemen tation	Supervi sion	ed Cost	
		<ul> <li>characteristics, and</li> <li>based on guidance</li> <li>issued by relevant</li> <li>authorities, both</li> <li>national and</li> <li>international (e.g.</li> <li>WHO).</li> <li>Training of workers for</li> </ul>					
		the management of the system, safety management, and actions in case of an accident should be implemented.					
Local Comm unity	Communit y Health and Safety	<ul> <li>Emergency response plan should be prepared in case of any water contamination.</li> <li>Maintain an efficient grievance mechanism.</li> <li>Conduct quarterly community meetings to observe any concerns they may have.</li> <li>Conduct quarterly meetings with the concerned authorities to monitor the quality of reducing the impacts of dust.</li> <li>That treated water quality must meet the WHO Guidelines (as indicated in the EHS Guidelines)</li> <li>The treatment plant will be designed to meet the standards of EHS.</li> <li>Quality control and quality assurance system will be in place, the transmission and distribution network</li> </ul>	Site visit reports Incident s and accident s reports	The manager of the water unit	Maysan Water Director ate	Operatio n cost	

Recept	Impact	Mitigation Measures	Means	Respons	Responsibility		
or/E HS Aspect			of Supervi sion	Implemen tation	Supervi sion	ed Cost	
		<ul> <li>will be properly protected from contamination through maintaining adequate pressures and monitoring system etc.</li> <li>Ensure quarterly community meetings will include beneficiary households of new water network.</li> </ul>					
storage and handlin g of chemic als and other materia ls	OHS	<ul> <li>Install alarm and safety systems, including automatic shutoff valves, that are automatically activated when a chlorine release is detected</li> <li>Install containment and scrubber systems to capture and neutralize chlorine should a leak occur o</li> <li>Use corrosion-resistant piping, valves, metering equipment, and any other equipment coming in contact with gaseous or liquid chlorine, and keep this equipment free</li> </ul>	Site visit reports Incident s and accident s reports	The manager of the water unit	Maysan Water Director ate	Operatio n cost	
		<ul> <li>equipment free from contaminants, including oil and grease</li> <li>Store chlorine away from all sources of organic chemicals, and protect from</li> </ul>					

Recept	Impact	Mitigation Measures	Means	Respons	sibility	Estimat
or/Ē	-	C C	of	Implemen	Supervi	ed Cost
HS			Supervi	tation	sion	
Aspect			sion			
		sunlight, moisture,				
		and high				
		temperatures				
		• Minimize the				
		amount of				
		chlorination				
		chemicals stored				
		on site while				
		maintaining a				
		sufficient inventory				
		to cover				
		intermittent				
		disruptions in				
		supply;				
		• For systems that				
		use gas				
		chlorination: o				
		Install alarm and safety systems,				
		safety systems, including				
		automatic shutoff				
		valves, that are				
		automatically				
		activated when a				
		chlorine release is				
		detected o Install				
		containment and				
		scrubber systems				
		to capture and				
		neutralize chlorine				
		should a leak occur o Use corrosion-				
		resistant piping,				
		valves, metering				
		equipment, and any				
		other equipment				
		coming in contact				
		with gaseous or				
		liquid chlorine, and				
		keep this				
		equipment free				
		from				
		contaminants,				
		including oil and				
		grease o Store				
		chlorine away from all sources of				
		all sources of				

Recept or/E HS Aspect	Impact	Mitigation Measures	Means of Supervi sion	Respons Implemen tation	ibility Supervi sion	Estimat ed Cost
		organic chemicals, and protect from sunlight, moisture, and high temperatures				

# PART D: MONITORING PLAN/ CONSTRUCTION PHASE

Receptor /EHS aspect	Monitoring indicators	Respon sibility of monito ring	Frequen cy of monitori ng	Location of monitori ng	Methods of monitoring	Estimat ed Cost of monitor ing
Constructio	on Phase					
Air Quality <sup>12</sup>	<ul> <li>Number of complaints related to air quality.</li> <li>Compliance with dust abatement measures</li> </ul>	Residen t Enginee r & PMT, contract or	Bi- weekly, or as soon as complain ts are received	- Near excavat ion and backfill ing activiti es.	<ul> <li>Site</li> <li>inspection</li> <li>Following</li> <li>up with</li> <li>complaint</li> <li>s</li> </ul>	No addition al cost
Noise & Vibration <sup>13</sup>	<ul> <li>Noise level</li> <li>Number of complaints related to high noise levels.</li> </ul>	Residen t Enginee r & PMT, contract or	Bi- weekly, or as soon as complain ts are received	On site	<ul> <li>Site</li> <li>inspection</li> <li>Complaint</li> <li>s log</li> </ul>	No addition al cost

<sup>12</sup> <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
- <sup>13</sup> <u>https://www.ifc.org/wps/wcm/connect/4e01e089-ad1a-4986-b955-e19e1f305ff0/1-</u>
- $\underline{1\%2BAir\%2BEmissions\%2Band\%2BAmbient\%2BAir\%2BQuality.pdf?MOD=AJPERES\&CVID=nPtgvbS$

Receptor /EHS aspect	Monitoring indicators	Respon sibility of monito ring	Frequen cy of monitori ng	Location of monitori ng	Methods of monitoring	Estimat ed Cost of monitor ing
Solid and Liquid waste	<ul> <li>Waste segregation</li> <li>Storage conditions of hazardous waste and materials;</li> <li>Disposal receipts</li> <li>Condition of the holding tank</li> </ul>	Residen t Enginee r & PMT, contract or	Bi-weekly	<ul> <li>Waste areas on site</li> <li>Holdin g tank</li> </ul>	<ul> <li>Site</li> <li>inspection</li> <li>Checking</li> <li>waste</li> <li>register</li> </ul>	No addition al cost
Water Pollution	- Signs of inappropriate waste disposal (including hazardous waste and materials).	Residen t Enginee r & PMT, contract or	Monthly	Euphrate s	<ul> <li>Visual inspection</li> <li>Document ation in H&amp;S monthly reports</li> </ul>	No addition al cost
Soil	- Signs of spillage of hazardous materials	Residen t Enginee r & PMT, contract or	Bi-weekly	Within site boundari es	<ul> <li>Site</li> <li>inspection</li> <li>Document</li> <li>ation in</li> <li>H&amp;S</li> <li>monthly</li> <li>reports</li> </ul>	No addition al cost
Occupati onal Health and safety <sup>14</sup>	<ul> <li>An Occupational Health and Safety Plan is in place</li> <li>Availability of a competent supervisor</li> <li>Availability of an accident log</li> </ul>	Residen t Enginee r & PMT, contract or	Monthly inspectio ns	Subproje ct site in general	Maintaining records of injuries and accidents with cause and location - Maintainin g record recurring health	No addition al cost

<sup>&</sup>lt;sup>14</sup> <u>https://www.ifc.org/wps/wcm/connect/1d19c1ab-3ef8-42d4-bd6b-</u> cb79648af3fe/2%2BOccupational%2BHealth%2Band%2BSafety.pdf?MOD=AJPERES&CVID=nPtgxyx

Receptor /EHS aspect	Monitoring indicators	Respon sibility of monito ring	Frequen cy of monitori ng	Location of monitori ng	Methods of monitoring	Estimat ed Cost of monitor ing
	<ul> <li>Number of accidents and injuries on site.</li> <li>Worker's health checkups</li> <li>Total number of trained workers</li> <li>Complaints raised by workers</li> <li>-</li> </ul>				conditions if any	
Communi ty health and safety	<ul> <li>Number of accidents and injuries involving local community.</li> <li>Presence of warning signs in and around the site.</li> <li>Complaints raised by locals with regards to community health and safety.</li> </ul>	Residen t Enginee r & PMT, contract or	Monthly inspectio ns	Site boundari es	<ul> <li>Site</li> <li>inspection</li> <li>with</li> <li>photo</li> <li>document</li> <li>ation</li> <li>Grievance</li> <li>s log</li> </ul>	No addition al cost
Traffic Safety	- Presence of warning signs and speed limits for construction vehicles.	Residen t Enginee r & PMT, contract or	Daily	The access road leading to the water units	Site inspection with photo documentati on	No addition al cost
Child labour	- The ToR of contractor includes a contractual term related	Residen t Enginee r & PMT,	Daily	Construc tion site	Site inspection and desk work	No addition al cost

Receptor /EHS aspect	Monitoring indicators	Respon sibility of monito ring	Frequen cy of monitori ng	Location of monitori ng	Methods of monitoring	Estimat ed Cost of monitor ing
	to prohibiting child labour. - Presence of IDs of workers at the site	or				
Cultural heritage	- The chance find procedures are available	Residen t Enginee r & PMT, contract or	Once	Construc tion site	Desk work	No addition al cost
Temporar y labor influx	<ul> <li>Appropriate code of conduct is in place (at the site)</li> <li>Number of workers trained on the code of conduct</li> <li>Breaches to the code of conduct and how they are managed</li> <li>Complaints raised by the local community due to labor influx</li> <li>Engagement activities related to code of conduct</li> </ul>	Residen t Enginee r & PMT, contract or	On Monthly basis	Subproje ct area	- Grievances log - Site inspection	No addition al cost

Receptor /EHS aspect	Monitoring indicators	Respon sibility of monito ring	Frequen cy of monitori ng	Location of monitori ng	Methods of monitoring	Estimat ed Cost of monitor ing
	<ul> <li>Availability of health checkup</li> </ul>					
GBV	<ul> <li>The code of conduct includes preventive sexual exploitation and prohibition of harassment</li> <li>Complaints raised by the local community</li> </ul>	Residen t Enginee r & PMT, contract or	Monthly	Subproje ct site	- The code of conduct - Grievances log	No addition al cost
Infrastruc ture and undergro und utilities	<ul> <li>Minutes of coordination meeting</li> <li>Availability of underground utility maps</li> <li>Incidents of damaging infrastructure</li> <li>GRM is available at the site</li> <li>Complaints raised due to infrastructure and water service damages</li> </ul>	Residen t Enginee r & PMT, contract or	As soon as complain ts are received	Subproje ct site	<ul> <li>The code of conduct</li> <li>Grievance s log</li> </ul>	No addition al cost
Resident Engineer & PMT, contracto r	<ul> <li>Caravan location inside the water unit site</li> <li>Availability of adequate waste</li> </ul>	Residen t Enginee r & PMT, contract or	As soon as complain ts are received	Subproje ct site	<ul> <li>The code</li> <li>of conduct</li> <li>Grievance</li> <li>s log</li> </ul>	No addition al cost

Receptor /EHS aspect	Monitoring indicators	Respon sibility of monito ring	Frequen cy of monitori ng	Location of monitori ng	Methods of monitoring	Estimat ed Cost of monitor ing
	<ul> <li>management system</li> <li>Monitoring reports of working conditions</li> <li>Engagement activities with women minutes of meetings</li> <li>Training reports, including list of participants of workers received training on the code of conduct</li> <li>Recommendat ion and instructions related to the facilities is available at the site</li> </ul>					
Operation I	hase	1	1	1		
Air quality <sup>15</sup>	<ul> <li>Generated Emissions</li> <li>Complaints from residents and workers</li> </ul>	Maysan Water Directo rate	Twice a year	<ul> <li>Near the emissio ns sources</li> <li>Site bounda ries</li> </ul>	<ul> <li>Measurem ents and reporting of exhaust emissions</li> <li>Complaint s log</li> </ul>	No addition al cost
Noise and	- Noise and vibration	Maysan Water	Twice a year	- Near the	- Measurem ents and	No addition al cost

<sup>15</sup> <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

Receptor /EHS aspect	Monitoring indicators	Respon sibility of monito ring	Frequen cy of monitori ng	Location of monitori ng	Methods of monitoring	Estimat ed Cost of monitor ing
Vibration <sup>16</sup>	intensity, exposure durations - Complaints from residents and workers	Directo rate		source of vibratio n and noise - Site bounda ries	reporting of exhaust emissions - Complaint s log	
Waste generatio n	<ul> <li>Status of waste management areas on site.</li> <li>Disposal receipts</li> <li>Cleanliness of the farm.</li> <li>Condition of the holding tank</li> <li>Status of waste resulting from the removal of suspended solids and dissolved contaminants</li> </ul>	Maysan Water Directo rate	Twice a year	- Waste areas - Holdin g tank (s)	- Site inspection - Review waste register	No addition al cost
Water Pollution	<ul> <li>Signs of inappropriate waste disposal (including hazardous waste and materials).</li> <li>Drinking Water quality indicators</li> <li>Observation of</li> </ul>	Residen t Enginee r & PMT, contract or	Monthly	- Euphrate s water intake - Chlorine storage area	<ul> <li>Visual inspection</li> <li>Document ation in H&amp;S monthly reports</li> </ul>	No addition al cost

Receptor /EHS aspect	Monitoring indicators	Respon sibility of monito ring	Frequen cy of monitori ng	Location of monitori ng	Methods of monitoring	Estimat ed Cost of monitor ing
	spillage/leakag es of Chlorine	)				
Impacts on soil	Observation of: - spillage/leaka ges from hazardous material and wastewater - accumulated wastes - piling of hazardous materials	Maysan Water Directo rate	Twice a year	Subproje ct site	<ul> <li>Site</li> <li>inspection</li> <li>H&amp;S</li> <li>reports</li> </ul>	No additiona l cost
Occupati onal Health and Safety <sup>17</sup>	<ul> <li>Adherence to PPE, especially by workers who clean the water.</li> <li>Site safety</li> <li>Storage of materials</li> </ul>	Maysan Water Directo rate	Twice a year	Water units site	<ul> <li>Maintainin g a record of toxic exposure/ contact</li> <li>Checking workers' complaint s</li> </ul>	No additiona l cost
Communi ty health and safety	<ul> <li>Emergency response plan is in place</li> <li>Complaints raised due to community health aspects</li> <li>Applying monitoring indicators required by WHO</li> </ul>	Maysan Water Directo rate	Twice a year	Water units site	<ul> <li>Site inspection</li> <li>Maintainin g a record of toxic exposure/ contact</li> <li>Checking residents' complaint s</li> </ul>	No additiona l cost

<sup>&</sup>lt;sup>17</sup> <u>https://www.ifc.org/wps/wcm/connect/1d19c1ab-3ef8-42d4-bd6b-</u> cb79648af3fe/2%2BOccupational%2BHealth%2Band%2BSafety.pdf?MOD=AJPERES&CVID=nPtgxyx

ANNEXES Annex 1: Consultations Photos



# Annex (2): Sample individual interviews for both men and women in the village

استبيان الصندوق الاجتماعي للتنمية لمحافظة استبيان الصندوق الاجتماعي للتثمية لمحافظة عزيزتي المواطنة... عزيزي المواطن... عزيزتي المواطئة... عزيزي المواطن... تُجري( وزارة التفظيط/ الصندوق الاجتماعي للتندية ) مسح ميدتي لغرض التشاور المجتمعي مع أبناه القرية حول لْجريرة وزارة النظيط ( المندوق الاجتماعي للتنبية ) سبح ميدتي تغرض اللشاور المجتمعي مع ليناه القرية هول الإجراءات البينية والاجتماعية التي سيئم تغلاها بغصوص تلفيذ المشاريع في القرية ومدى الأرها على المجتمع المطي والبينة الإهرادات الينية والابتداعية التى سيلم القلاها بقصوص تلفيذ النشاريع في القرية ومدى اثارها على المجتمع النطي واليا المعيظة، راجين الإدبابة يصدق وحيادية عن الاستبيان التالي دون الحامة لذكر الاسم أو وسيلة الاتصال . المعيطة، راجهن الإجلية بمنتل وحيادية عن الاستيران التلى دون المانية لأكر الاسم أو وسيئة الالصال . أسم المشروع : سم المذروع: الأشاء قلمة القضاو البنس: الألكر ليشرر ALD. NA: Law 04 لعرز وموطف ومقاهد المهنة din. ا کلیب ت رية مت ويوقف ومكاط تنهنة ٨ هنك ادعادات او مطالبات من قبل السكان المطين بعادية الارض الطام عليها المشروع؟. هل هذك ادعادات أو مطالبات من قبل السكان المطيون بحدية الأرض الطلم عليها المشروع?. ن ملاحظات 356 al D 0 ما**لمطّ**ال 36 (1 10 ٨ سيكون هذك ضرر على الشاطات و المصالح اليومية للأهلى بسبب الاعمال الاشتلية للمشروع. ٩ مولون هذى شرر على الشاطنة و المصالح اليومية للأهلى يديب الاصل الاشائية المشروع. ن ملحظات 350 ن تمر 150 MG ن ملاحظات ۲. هن هناك اي بني تعلية ستنكر يسبب الاعمل الانشانية للمشروع ؟. بن نماية ستثلر يسبب الاصل الاشائية تشتروع !. D ملاحظات 35 1 11 أمر ر ملاحقات 36 5 ak D هن هنك اعدة توطين لشفص او تحة المفاص بسبب الأمة المشروع في القرية". ا. الأ الله الله توطيق للطعن أو لحة الطاعن بسبب الله المثروع في القرية؟. □ مالمثان 35 🗆 ini pr ن ملاحقات 36 0 Nig ٩. ال سوف يتأثر المجتمع المطى بصورة سلبية تتيجة المشاريع الطامة؟. ٩. الأسوف بثلاً المجتمع المطي بصورة سلبية تتبعة المشاريع الطامة؟. 350 ر ملاحقات ونم ١٢ ن نم ا و ملاحقات ٦. هل اعمل انشاء او اعتدة تناهيل المشروع ستوثر بشكل سليي على المجاميع الاكثر ضعفا والاكثر. هشاشة (النساء والمعظين) ٢. ۲. هل اعمل اللباد أو اعدة ثافيل المقروع متوال بشكل مشي على المجامع الاكثر ضطة والاكثر عشائلة (اللساء والمعاقين) ٢. وملاحقات 350 ونم 346 ن ملاحلات ن أهم ۷. هل تتوقع ازالة محاصيل زراعية او الشهار او اية غطاه نيتي تعود علديته لمواطنين او سكان محليين بسبب الاعمل الاشتانية. ٧. هل تترقع از انة معاصيل زراعية أو البجار أو اية غطاه تبلني تتود عانتيله لمواطلين أو سكان معلين بسبب الاعمل الاشتابية للشروع). للشروع!. 35 1 0 ملاحظات ن نم ر بالملك 24 ن نم : ٨. هل سيزار المذروع في الثاغة السكانية (اسكانية قدوم مواطنين من منطق لغرى الى القرية بسبب المشاريع التي ستلغازه ٨. هل سيزائر المشروع في الكثافة السكانية (امكانية قادم مواطنين من مناطق اغرى الى القرية بسبب المشاريع التي ستنفا)؟ 0 ملاحظات 35 m in low 11 ملاحظات Mo Nin ٩. هل تعتلد أن صلية الشاء أو أعدة تأهل المشروع لها الأر ايجابية من النامية الاجتماعية بالنسبة السكان القاطلين في المشاطق ٩. هل تحقد ان صلية أشاد أو اعتدً تأهل الشروع لها اثار ايجلية من التحية الاجتماعية بالسبة السان القاطين في المناطق القربية من الشروع؟. القريبة من المشروعة. 0 ملاحظات الم تكلا ن ملاحقات 34 CI pie شكراً على وفتكم ..... شقراً على وقكم ....

استبيان الصندوق الاجتماعي للتنمية لمحافظة 1

عزيزتي المواطنة... عزيزي المواطن...

تُجري ( وزارة الفظية / المنتوق الابتناعي للتنمية } سح ميدتي تغرض للتشاور المجتمع مع ليناه القرية حول الإجراءات البينية والاجتماعية التي سيتم تفذهما بخصوص نظية المشاريع في للقرية ومدن الثرهما على المجتمع المعلي والبينية المحطة، راجين الإجلية بمدئل وحيادية عن الاستينان التلي دون الحاجة الكر الاسم أو وسيئة الاتصال .



استبيان الصندوق الاجتماعي للتتمية لمعافظة [/ س

عزيزني المواطنة... عزيزي المواطن...



تُجري ( وزارة التغفية / المنتوق الابتماعي للتنمية ) سم مودتي نغرض التشاور المجتمع مع لينام القرية حون الإجراءات البينية والاجتماعية التي سيئم الغائما بخصوص تنفية المشاريع في القرية ومدن الثرها على المجتمع المطي والبينة المعطقة، راجين الإجابة بمعنق وحياتية عن الاستينان الذلي نون العامية انكر الإسر أو وسيئة الاتصل .

studenting wa						
			اللمية	berror .		للشاء
		3	ن الثي		A.	لېنى:
				<b>س</b> لة	04	تمر;
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ىلىروغ؟.	لطام عليها ال	ن يعلنية الأرض	ن قَبْل السكان المطير	ت او مطالبات م	ش هذك ادعاما	4
			ن ملاحظات,	75 0	ن لم	1
غية للمشروع؟.	الاعمل الانذ	مية للأهلي بسبب	اطات و المصالح اليو	ا ضرر على الله	فل سيلون هذا	3
			ن مالحظات	75 0	ن نم	
		المذروع ?.	جب الاعمل الانشانيا	, تطية ستثار ب	فل هنگ اي بتر	.7
			ن ملاحظات	75 1	الم	1
	لي القرية؟.	فلنة لنثروع أ	ر لعة اشقاص سِيِب	نوطن لشلص (	فل هنك اعدة ا	1, 1
			ن ملاحظات	36 D	ولم	1
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او سكان مطيين بسبب الاعمال الاشانية	نبته لىراطين	اء ئېلى تەرد غل	او النجار او اية غط	معاصيل زراعية	ل ترفع زدة.	Y
		2			لللروع؟.	
			o ،العقات	35 0	إلم	
الارية بسبب المشاريع التي ستلذا)؟	فق الحرى الى	مواطلين من منا	للكلية والكلية قرر	رع في الثلقة ا	ل سوزار الملر	1.1
1 4 60			o ملاحظات	35.0	ي تعم	-
عية بالسية للسلان فلاطنين في المتاطق	اللمية الاجتما	الأر ايدلية من		لية أنشاء أو أعا	ن تعتد ان عد	1.1
4-44-6-1-11					الريبة من المثر	
			ر بلامقان		ي لمر	1

استيان المندوق الاجتماعي للتنمية لمحافظة الرسيك

عزيزتي المواطنة... عزيزي المواطن...

تُجري( وزارة انتظرة / المندوق الابتماعي للتندية ) سع ميدلي لغرض التشاور المجتمعي مع أيناء القرية حول الإجراءات البينية، (الاجتماعية التي سيتم الثلاثما بخصوص تنفية المشاريع في القرية ومدن الثرما على المجتمع المحلي والبينة. المحوطة، راجهن الإجلية، يصنق وحيائية عن الاستينان التلي دون المحابة أذكر الاسم أن ومبلة الاتصال .

Ober + O'is + al de أسر المشروع: أسم المشروع : Sap inthe Junely فلادد الكشاء الكضاء المس المنكر المِس: áin i العسن: العسنة 0 طالب المهنة: ∏ کلیب ومرطف ومقاعد au 1/1 ----- على هذاك ادعاءات أو مطالبات من قبل السكان المطيين بعاندية الأرض الطام عليها المشروع؟. الم الك ن ملاحظات ن نم ال ميكون هذاك ضرر على الشاطات و المصالح اليومية للأهلي بمبيد الاعمال الاشائية للمشروع!. الم مكلا 1 مالحظات ا لمر بن تحقية ستتأثر بسبب الاعمال الاشفية للمشروع ?. ن نم n مذخلك X ن لعم ٤. هل هذاك اعادة توطين لشخص او لحدة اشخاص بسبب الأمة المشروع في القرية؟. ومتطات <u>ں</u> نم XL الم, ٩. الأسوف بتأثر المجتمع المحلى بصورة سلية تتيجة المشاريع الطامة؟. D ما حظات X D in ٢. هل اعمال الشاء أو اعادة تناهل المشروع ستوثر بشكل سلبي على المجامع الاكثر ضعفا والاكثر. هشاشة (النساء والمعاقين) ٢. ن مالحظات Xa din, ۲. فل تتوقع از لة محاصيل زراعية أو اشجار أو أية غطاء نبائي تعود عاديته لمواطنين أو سكان محلين بسبب الاعسال الاشداية للمشروع؛. للشروع!. ن ملاحظات XV D in ٨. ان سبوتر المشروع في الكافة السكانية (استانية قدوم مواطنين من مناطق اخرى الى القرية بسبب المشاريع التي ستنفة)؛ n بالطات 36 11 NIC Nil ٩. هل تطل ان عملية الشاء او اعادة تأهل المشروع لها الأر ايجابية من النامية الاجتماعية بالنسبة للسكان القاطنين في المناطل. القربية من المشروعة. 0 ملاحظات 36 D Nie Ni شكراً على وأتكم .....

استبيان الصندق الاجتماعي لتتمية لمدافظة الرجر



عزيزتي المواطنة... عزيزي المواطن... تُجريا وزارة التطفيط / المنتوق الاجتماعي للتسبة ) سمع ميدتي لغرض التشاور المجتمعي مع لبناه الفرية مول الإجراءات البينية والاجتماعية التي سيتم التلاقما بخصوص تنفيذ المشاريع في القرية ومدى الثرها على المجتمع المعلي والبينة المحطة، راجين الإجابة بمحقق وحيكية عن الاستييان التلى دون الحلية لفكر الاسم أو وميلة الاحصال .

Chertilizade of 00 1 hered - ske. اللعبة 0 لئى العر: الم الله المهنة مجاموظ ومتقاعة υگې ۵ ربة بيث ن طك ٨ هذك ادعادات او مطالبات من قبل السكان المطيين بعلتية الارض الملام عليها المشروع!. ن ملاحظات 250 ٢. فاسبكون هذك ضرر على الشاطات و المصالح اليوسية للأعلى يسبب الاعمال الاشائية المشروع؟. n بلاحظات Xe ال هناك أن بنى تحتية ستثلَّر بسبب الاصال الاشائية للمشروع ا. 0 ملاحظات XD ٤. هل هنك اعادة توطين لشفص او لحة اشفاص بسبب اللمة المشروع في القرية؟. n الملك Xor ٩. الأسوف يُتَكَر المجتمع المحلى بصورة سليبة نتيجة المشاريع المقتمة?. Xer pia والطك ٢. هل اعمل انشاء او اعدة تاهل المذروع ستؤثر بشكل سنيي على المجامع الاكثر ضطا والاكثر هذائبة والنساء والمعلقين ٢. 11 ملاحظات X6 - 10 ۲. فان تتوقع از الله معاصيل زراعية أو النجار أو أية غطاء نبائن تنود عانيته لمواطنين أو سكان مطيين بسبب الاصل الانشلابة X2 pto الملاحظات ٨. فل سيزتر الشروع فن الكفة السكانية (الكانية قوم مواطنين من مناطق نفرى في الفرية بسبب المشاريع التي ستنفاره 0 ملاحظات 350 ٩. هل تطلد أن عملية أشاء أو أعادة تأجل المشروع لها الأر أيجابية من الناهية الاجتماعية بالنسبة السائل اللطنين في المذاطئ الأربية من المشروع؟. D مالحظات 350 شكراً على وقتكم ....

استبيان الصندوق الاجتماعي للتنمية لمحافظة الرسل

عزيزتي المواطنة... عزيزي المواطن...

تُجري( وزارة التغطيط / الصندوق الاجتماعي للتنعية ) مسح ميداني لغرض التشاور المجتمعي مع ابناء القرية حول الإجراءات البينية والاجتماعية التي سيتم انخذاهما بخصوص تنفيذ المشاريع في القرية ومدى انثارها على المجتمع المحلي والبينة المحيطة، راجين الإجابة بصدق وحيادية عن الاستبيان التالي دون الحاجة لذكر الاسم أو وسيلة الاتصال .



شكراً على وقتكم ....

استيين المندوق الاجتماعي للتمية لمعظفة الرسلي

) 0

تاريزي المواطقة... تاريزي المواطق... تُعربو( وزارة تلفظية ( المنتول الايتشاعي الثانية ) سح ميتالي لقرض التشاير المهتمي مع ايتاه القرية هول الإمرادات البينية والايتشاعية التي سيتم التقالما بتصوعي تلفية المشتريع في تقريبة ومدي الترهنا على الميتسع المطي والبيتية المعيطة، رابعين الإيتية بمعلى وحيائية عن الاستينان الثلي ادون المنابية لقتر الاسم أو وسيئة الالصل .

المدع: السنة	بارتيم مادين ل	a
	le x 1	
	فتمة	din 40
AG	ه الا	and a
L 00		
رموشد وطاه	التب وطلب	ن ریة بهر
هل هذاة ادهاجات او مطالبات	من قِلْ السائل السطين يحدية الأرض	لطام طبها المذروع:
XE NO	ن ملاحظات	
فل سياون هذا خرر غلي ال	شظلت و المصالح الومية تا(هلي بسير	الاصل الاشلية للطروع!.
My NO	رر ملاحقات	
هر هاد اي بلي لطية ستثل	يبير، لاصل الأشلية كمثروع إ	
Mo mil	ي مالمطان	
هل هذك اعدًا تُرهَيْ للنَّمِن	ار احدَّ النقاص بنيتِ اللهُ الشروع	ي طرية;
360 pig	ن ملاحظات	
هل سوف يذكر المهتمع المطر	ربعورة سلية تلبعة الشاريع الطامة	
Xo MO	ن ملاحظات	
هل اعمل للشاء تو اعتدتتمن	، الطروع ساؤثر يقتل سايي ظي المه	ميع الكثر شطة والالثر هلنشة والساء والمعالين) /
74. plo	ن ملاحظت	
هل للوقع ازالة معاصيل زراع	بة از البيار از اية غطاه ليكي تتود نتا	ياه لمواطئين أو سكان مطيئ يسبب الإصل الاشدانية
لسلىروغ!.		
36 MO	o مالاصلات	
هل سيزكر الطروع في اللقة	السلالية (امكانية قارم مراطلين من منا	فَقَ نَفَرِي فِي نَقَرِيةً بِسِبِ السُتَارِيعِ التِي سَتَقَلَّهُ!
340 ptg	ن مالحقات	
هل لعلة ان صلية الشام تو ا	مدة تأهل السلروع لها الأز اليجليبة من	اللعية الاوتداعية بالشية للسكان الكطنين في المتغلق
اللزيبة من المشروع).		

#### استبيان الصندوق الاجتماعي للتنمية لمحافظة



#### استبيان الصندوق الاجتماعي للتنمية لمحافظة //

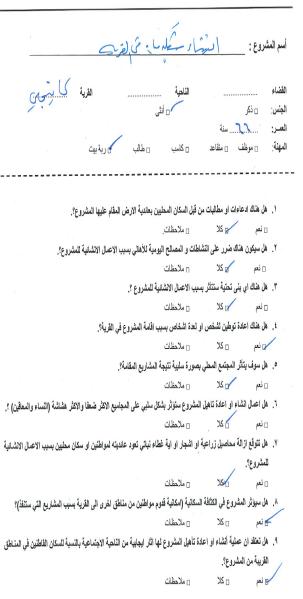


عزيزتي المواطنة... عزيزي المواطن...

نَّجُوي( وزارة التخطيط / الصنوق الاجتماعي للتنمية ) مسع ميداني لغرض التشاور المجتمعي مع أبناء القرية حول الإجراءات البينية والاجتماعية التي سيئم انتخاذها بخصوص تنفيذ المشاريع في القرية ومدى انارها على المجتمع المعلي والبينة المحيطة، راجين الإجابة بصدق وحيادية عن الاستييان التالي دون الحاجة لذكر الاسم أو وسيلة الاتصال .

	أسم الما	ئىروع :	in 1	بار میں	مارد مرا	2,		-
	القضاء الجنس:			الثاحية . الأاحية .	د بی	القرية	كالنيس	r.
Sugar in	العمر: المهنة:		سنة _ متقاعد	کاسب	0 طالب	ں ربة بيت		
	.)	هل هناك ادعا	ات او مطالبات	من قَبل السكان المحا	يين بعاندية الارض	لمقام عليها المشروع	?.	
		نعم 🛛	6 کلا	0 ملاحظات				
	۲.	هل سيکون هن	ك ضرر على الن		ليومية للأهالي بسبب	الاعمال الانشانية للم	شروع؟.	
		🛛 نعم	ی کلا	🛛 ملاحظات				
I may	۳.	هل هناك اي ب	ي تحتية ستتأثر	بسبب الاعمال الانشا	انية للمشروع ؟.			
		🛛 نعم	_	🛛 ملاحظات				
	.ť	هل هناك اعاد	توطين لشخص	، او لعدة اشخاص بس	بب اقامة المشروع	ي القرية؟.		
	0	1 نعم	ם צע	🛛 ملاحظات				
	.0	هل سوف يتأذ	المجتمع المطم	ي بصورة سلبية نتيج	نة المشاريع المقامة			
		🗆 ئعم		🛛 ملاحظات				
	l.	هل اعمال انش	ء او اعادة تاهيا	ل المشروع ستؤثر بن	شكل سلبي على المو	اميع الاكثر ضعفا والا	كثر هشائنة (النساء وا	والمعاقين)
		🛛 نعم	6 کلا	🛛 ملاحظات				
	۷,	هل تتوقع ازاا	ة مماصيل زراء	عية او اشجار او اية	غطاء نباتي نعود عا	ديته لمواطنين أو سك	ان مطيين بسبب الاعم	عمال الأنشر
		للمشروع؟.	/				·	
		🗆 ئعم	🖬 کلا	🛛 ملاحظات				
	٨.	ھل سيوئٹر اله	نْىروع في الكثاف	لة السكانية (امكانية ق	ندوم مواطنين من ما	طق اخرى الى القرية	بسبب المشاريع التي ا	ي سنتغذ)؟
		ے نعم	טע 🛛	🛛 ملاحظات				
	٩.	هل تعتقد ان	لملية أنشاء او ا	اعادة تأهيل المشروع	إ لها اثار ايجابية مز	الناحية الاجتماعية با	لنسبة للسكان القاطنين	ين في المذاه
		القريبة من ال	شروع؟.					
	/	🗖 ئىم	□ کلا	ملاحظات				

عزيزني المواطنة... عزيزي المواطن... تُجري( وزارة التغطيط / الصندوق الاجتماعي للتنمية ) مسح ميداني لفرض التشاور المجتمعي مع أبناء القرية حول الإجراءات البينية والاجتماعية التي سيئم اتخاذها بخصوص تنفيذ المشاريع في القرية ومدى المارها على المجتمع المحلي والبينة المحيطة، راجين الإجابة، يصدق وحيدية عن الاستبيان التالي دون الحاجة لذكر الاسم أو وسيلة الاتصال .



شكراً على وقتكم ....

استبيان المشوق الاجتماعي للتنمية لمحافظة



استبيان الصندوق الاجتماعي للتنمية لمحافظة

عزيزتي المواطنة\_ عزيزي المواطن\_

تَّجري{ وزارة التغطيط / الصندوق الاجتماعي للتنمية } مسح ميدتي لترض التشاور المجتمعي مع أيناء القرية حول الإهراءات الينية والاجتماعية التي سيتم لتغلاها بغصوص تنقيذ المشاريع في القرية ومدى الأرها على المجتمع المحلي والبينية المعطة، راجن الإجابة بمنق وهيانية عن الاستبيان الثلي دون العاجة لأكر الاسم أو وسيلة الاتصال .



 ٩ هذاك ادعادات او مطالبات من قبل السكان السطيين بعقدية الارض المقام عليها المشروع؟. و ملاحظات. 356 ن لم ٩ سيكون هذك ضرر على الشلطات و المصالح اليومية للأهالي يسبب الاصال الاشانية المشروع؟. ت ملاحظات 35.6 ت لم ٣. هل هناك ان بني تحقية ستتقرّ سبب الاصل الاشلية للمشروع ؟. 0 ملاحظات 35 2 ال أهم هل هنك اعادة توطين لشخص او لحة اشخاص بسبب الأسة المشروع في القرية؟. والمقان 30 NIE ٩. هل سوف يتأثر المجتمع المحلى بصورة سليبة تتيجة المشاريع الطامة. ن ملاحظات 35 αία ٢. ها اعمل انشاء او اعادة تاهل المشروع ستوثر بشكل سفي على المجامئع الاكثر ضطا والاكثر هشاشة (النساء والمعاقين) ٢. 34 0 ملاحظات ] نم

۲. هل تتوقع از الله محاصيل زراعية أو الشيتر أو أية غطاء نبائي تعود عاديته لمواطنين أو سكان محلين بسبب الاعمال الاشتلية. للشروع؛.

ن ملاحظات X Dim ٨. هل سيزار المشروع في الكثافة السكانية (سكانية قدوم مواطنين من مناطق اخرى الى القرية يسبب المشاريع التي ستلفاً)؟

Nin و ملاحظات 260 ٩. هل تعقد أن عملية أشاء أو اعادة تأهل المشروع لها الأر فيجلية من التاهية الاجتماعية بالسبة للسكان الالعقين في المناطق.

القربية من المشروع؟.

nin D ملاحقات MO

عزيزتي المواطنة... عزيزي المواطن...

تُجري( وزارة التغطيط / الصندوق الاجتماعي للتنعية ) مسح ميداني لغرض التشاور المجتمعي مع أبناء القرية حول الإجراءات البينية والاجتماعية التي سيتم اتخاذها بخصوص تنفيذ المشاريع في القرية ومدى اثارها على المجتمع المحلي والبينة المحيطة، راجين الإجابة بصدق وحيادية عن الاستبيان التالي دون الحاجة لذكر الاسم أو وسيلة الاتصال .

مریک کرد	د شکم اتا	انسا	أسم المشروع :	
القرية <u>كم (</u> سم.	الناحية			
	النثى		الجنس: 🔂 ذكر	
		م الله الله الله	العمىر:	
🛛 طالب 👘 ربة بيت	🗆 کاسب	ظف 🛛 متقاعد	المهنة: 🕝 مو	
		stille, it closes	1.511a.1a.1	-
بعاندية الارض المقام عليها المشروع؟.	من قبل السكان المحليين ب ملاحظات	1		
ة للأهالي بسبب الاعمال الانشانية للمشروع؟.	ساطات و المصالح اليومي ] ملاحظات			
P	مالحطات بسبب الاعمال الانشائية ا			
مسروع ۱.	بسبب الاعمان الاسانية ل ملاحظات	1		
نامة المشروع في القرية؟.				
نامه المشروع في الفرية؟.	، او تادہ اسکاص ہیں او ملاحظات		1	
aī 15 H . 13	مرحصات بي بصورة سلبية نتيجة الم			
ساريع المقامة؟.	ي بصوره سبيه سيجه الم ۵ ملاحظات			
سلبي على المجاميع الاكثر ضعفا والاكثر هشائسة (النساء والمعاقين) ؟.		الصاغ اق الحادة العليم کلا		
		5	I =	
نباتي تعود عائديته لمواطنين او سكان محليين بسبب الاعمال الانشانية	يه او اشجار او ايه عطاء			
	ante da	1	للمشروع؟	
	□ ملاحظات		□ نعم نا ند	
واطنين من مناطق لخرى الى القرية بسبب المشاريع التي سنتغذ)؟				
	ملاحظات		1 200	
نَّار ايجابية من الناحية الاجتماعية بالنسبة للسكان القاطنين في المناطق	عادة تاهيل المشروع لها اا			
		المشروع؟.		
	🛛 ملاحظات	אצ 🗆	🖪 نعم	

شكراً على وأتكم ....

شكراً على وقتكم ....

# ANNEX (3): IRAQI STANDARDS FOR AIR, NOISE, and Water

	Iraqi Standards		WHO Standards
Pollutant	Concentration	Average Time	Concentration
СО	10 ppm	8 hours	N/A
	35 ppm	1 hour	N/A
	0.1 ppm	1 hour	500 μg/m <sup>3</sup>
SO <sub>2</sub>	0.04 ppm	24 hours	20 μg/m <sup>3</sup>
	0.018 ppm	1 year	N/A
NO <sub>2</sub>	0.05 ppm	24 hours	200 μg/m <sup>3</sup>
	0.04 ppm	1 year	40 μg/m <sup>3</sup>
Ozone (O <sub>3</sub> )	0.06 ppm	1 hour	100 μg/m <sup>3</sup>
PM <sub>10</sub>	150 μg/m³	24 hours	50 μg/m <sup>3</sup>
PM <sub>2.5</sub>	65 μg/m³	24 hours	50 μg/m <sup>3</sup>
P 1V12.5	15 μg/m³	1 year	15 μg/m³
Total Suspended	350 μg/m³	24 hours	N/A
Particles	150 μg/m³	1 year	N/A
	10 t/Km <sup>2</sup> /month	30 days	N/A
Falling Dust	(Residential Zone)		
	20 t/Km <sup>2</sup> /month	30 days	N/A
	(Industrial Zone)		
Hydrocarbons	0.24 ppm	3 hours	N/A
	2 μg/m³	24 hours	N/A
Pb	1.5 μg/m³	3 months	N/A
	1 μg/m³	1 year	N/A
Benzene	0.003 μg/m <sup>3</sup>	1 year	N/A
Dioxin	0.6 pico g/m <sup>3</sup>	1 year	N/A

## **Ambient Air Quality Guidelines**

# Noise:

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

# Water:

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 (BOD)	Less than 40	1,000
Chemical Oxygen Demand (COD)	Less than 100	-
Cyanide (CN <sup>-</sup> )	0.05	0.5
Fluoride (F <sup>-</sup> )	5.0	10
Free Chlorine (Cl <sub>2</sub> )	Traces	100
Chloride (Cl <sup>-</sup> )	<ul> <li>A. If the ratio of the amount of water discharged to the amount of source water is 1000:1 or less, the chloride concentration of the discharge is permitted at 1% of the concentration of the natural source before discharge.</li> <li>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.</li> <li>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</li> </ul>	600
Phenol	0.01 – 0.05	5 – 10
Sulfate (SO4 <sup>2-</sup> )	<ul> <li>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.</li> <li>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</li> </ul>	300

Pollutant	Limits for discharge to water resources	Limits for discharge to public sewers
	<ul> <li>exceed a sulfate concentration of greater than 400 mg/L.</li> <li>C. If the 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</li> </ul>	
Nitrate (NO₃ <sup>-</sup> )	50	-
Phosphate (PO <sub>4</sub> <sup>3-</sup> )	3	-
Ammonium (NH4 <sup>+</sup> )	-	-
DDT	Nil	-
Lead (Pb)	0.1	0.1
Arsenic (As)	0.05	0.05
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
lron (Fe)	2.0	15
Manganese (Mn)	0.5	-
Silver (Ag)	0.05	0.1
Total Hydrocarbons & Derivatives	<ul> <li>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.</li> <li>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.</li> <li>For a river in a continuous flow 3 mg/L and in accordance with the ratio of the amount of the amount of the water source should not be less than 1000:1.</li> </ul>	-
Sulfide (S <sup>2-</sup> )	Nil	3.0
Ammonia (NH <sub>3</sub> )	Nil	10
Ammonia gas (free NH <sub>3</sub> )	Nil	6.0
Sulfur dioxide SO <sub>2</sub>	Nil	7.0
Calcium Carbide CaC	Nil	Not allowed
Organic solvents	Nil	Not allowed
Benzene	Nil	0.5
Chlorobenzene	Nil	0.1

Pollutant	Limits for discharge to water resources	Limits for discharge to public sewers
TNT	Nil	0.5
Bromine (Br <sub>2</sub> )	Nil	1-3

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

يجب على مقاول الإنشاء الالتزام بالإجراءات التالية:

#### <u>جودة الهواء</u>

-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 الأخرى إلا عند الضرورة لتجنب الانبعاثات غير الضرورية ؛ -يتم الحفاظ على جميع المعدات والآلات الأخرى إلا عند الضرورة لتجنب الانبعاثات غير الضرورية ؛ -يتم الحفاظ على جميع المعدات والآلات الأخرى إلا عند الضرورة لتجنب الانبعاثات معل جيدة في جميع الأوقات لضمان الحد -يتم الحفاظ على جميع المعدات والآلات والمركبات المستخدمة في الموقع في حالة عمل جيدة في جميع الأوقات لضمان الحد -يتم الحفاظ على محركات المركبات والآلات والمركبات المستخدمة في الموقع في حالة عمل جيدة في جميع الأوقات لضمان الحد -يتم الحفاظ على جميع المعدات والآلات والمركبات المستخدمة في الموقع في حالة عمل جيدة في جميع الأوقات لضمان الحد -يتم الحفاظ على مدينا المؤلات والمركبات المستخدمة في الموقع في حالة عمل جيدة في جميع الأوقات لضمان الحد -يتم الحفاظ على المتفات والماني والمركبات المستخدمة في الموقع في حالة عمل جيدة في الموقع. -منع الحرق المكشوف للمخان. -يتم يت علية الشاحنة الناقلة لمواد/مخلفات البناء أو المواد المتربة الأخرى وذلك بعد التأكد من الاحتفاظ بمسافة ٢٠ متر تحت -يتم تغطية الماحنة الناقلة لمواد/مخلفات البناء أو المواد المتربة الأخرى وذلك بعد التأكد من الاحتفاظ بمسافة ٢٠ متر تحت -يتم 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 لتلقي الشكاوي ٧/٢٤

# <u>الضوضاء</u>

-تطبيق جدول زمني مناسب لتجنب أي أعمال قد تسبب ضوضاء واهتزازات خلال الفترة من ١٠ مساءا إلى ٦ صباحا. -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 القريبة من مواقع العمل ؟

-تقييد استخدام الآلات التي تصدر ضوضاء بالقرب من المستقبلات الحساسة ، وإستخدام وسائل الحد من الضوضاء لآلات 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 -لا يتم تشغيل محركات المركبات والآلات الأخرى إلا عند الضرورة للتحكم في الضوضاء الناتجة ؛ -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 هذا على مكان مخصص لاستقبال النفايات الخطرة والطبية على حد سواء ، ويجب إجراء عمليات 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 وبجب 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 الهيدروكريونية ، بما في ذلك زيوت التشحيم ، للنقل الأمن خارج الموقع لإعادة استخدامها أو إعادة تدويرها أو نقلها أو التخلص منها في مكب معين من قبل البلدية.

#### إعادة استخدام النفايات وإعادة التدوبر

-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 تخزبن النفايات في حاوبات أو صناديق. لن يتم تخزبنها 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 إلى الموقع ؛ و -يتم تخزبن النفايات السائلة ، بما في ذلك نفايات الزبوت والمواد الكيميائية السائلة ، في براميل / حاوبات 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.

-عدم دفن و / أو حرق النفايات المنزلية في موقع المشروع.

-يتم تخزين النفايات داخل صناديق أو حاويات، وليس على الأرض مباشرة؛

-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 -تخزين الزيت ومواد الطلاء في مكان مناسب له قاعدة واقية، مثل بلاطة خرسانية، لمنع أي تغلغل في الأرض؛ -تخزين الزيت ومواد الطلاء في مكان مناسب له قاعدة واقية، مثل بلاطة خرسانية، لمنع أي تغلغل في الأرض؛ -التأكد من وجود البراميل والحاويات المستخدمة في تخزين الوقود أو المواد الكيميائية السائلة (بما في ذلك الزيوت المستعملة -التأكد من وجود البراميل والحاويات المستخدمة في تخزين الوقود أو المستعملة -تنزين الزيت ومواد الطلاء في مكان مناسب له قاعدة واقية، مثل بلاطة خرسانية، لمنع أي تغلغل في الأرض؛ -التأكد من وجود البراميل والحاويات المستخدمة في تخزين الوقود أو المواد الكيميائية السائلة (بما في ذلك الزيوت المستعملة -تنزيف موقع البناء من المدأ و التلف؛ -تنظيف موقع البناء من المحلقات المستخدمة في تخزين الوقود أو المواد الكيميائية السائلة (بما في ذلك الزيوت المستعملة -تنطيف موقع البناء من المحلق الحالية بل إغلاقه.

#### <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 المتنقلة 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 وموظفي 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 بالأمر اض) 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

#### <u>التراث الثقافي</u>

اتباع إجراء العثور على الأثار (مرفق رقم (٣))

### تدفق العمالة و العنف القائم على النوع الإجتماعي

- إعداد مدونة سلوك مناسبة تنص على التزام العمال تجاه فئات المجتمع والسلوكيات التي يجب تجنبها
  - يجب تدريب جميع العاملين على قواعد السلوك.
  - يجب توقيع قواعد السلوك من قبل المقاول من الباطن
- تعريف بمدونة قواعد السلوك يتم إجراؤه كل أسبو عين للعاملين الدائمين والوافدين الجدد قبل بدء العمل.
  - تطبيق المتطلبات الكاملة المتعلقة بتشغيل آلية التظلم بما في ذلك القنوات المجهولة
- زيادة وعي السكان المحليين حول التزام المشروع تجاه المجتمعات والتدابير المتخذة لذلك من خلال المشاورات العامة ومناقشات على شكل مجاميع.
  - تطبيق العقوبات على العاملين المخالفين لقواعد السلوك

#### <u>البنية التحتية والمرافق</u>

#### إدارة الخدمات الموقعية

إقامة المخيم داخل أراضي محطة المياه
 ضمان إقامة كرفانات البناء الملائمة ومرافق الصرف الصحي 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 للناع الاجتماعي وتضمن السرية
 المظالم هذه حساسة للنوع الاجتماعي وتضمن السرية
 المظالم عن حدم النساء والتخاص السرية التحقيق القائم على النوع الاجتماعية.

## العقوبات والغاء التعاقد

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 أسبو عين.		
يجب على المقاول اتخاذ الإجراء التصحيحي بشكل سريع.		
في حالة عدم التزام المقاول بخطة الإدارة البيئية والاجتماعية ، لا يحق للمقاول الحصول على الدفعات النقدية بموجب شروط هذا العقد	الدفعات النقدية	المرحلة الثانية
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

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

# Annex (5): Cultural Heritage Chance Find Procedure

Cultural property includes monuments, structures, works of art, or sites of significance points of view, and are defined as sites and structures having archaeological, historical, architectural, or religious significance, and natural sites with cultural values. During the project induction meeting, all contractors will be made aware of the presence of an on-site archaeologist who will monitor earthmoving and excavation activities.

The initial phase of the proposed emergency rehabilitation operations pose limited risks in damaging cultural property since subprojects will largely consist of small investments in community infrastructure and income generating activities, rehabilitation of existing structures, and minor public works. Further, it is understood by the Consultant that any activity that would adversely impact cultural property would make a subproject ineligible. Nevertheless, the Consultant will check that the following procedures for identification, protection from theft, and treatment of discovered artifacts should be followed in the event that archaeological material is discovered:

- Stop all construction activities in the area of the chance find.
- Delineate the discovered site or area.
- Record the find location, and all remains are to be left in place.
- Secure the site to prevent any damage or loss of removable objects. In cases of removable antiquities or sensitive remains, a night guard shall be present until the responsible local authorities and the Ministry of Culture immediately (within 24 hours or less);
- Notify the supervisory Engineer who in turn will notify the responsible local authorities and the Ministry of Culture (within 72 hours). The significance and importance of the findings should be assessed according to the various criteria relevant to cultural heritage; those include the aesthetic, historic, scientific or research, social and economic values.
- Decisions on how to handle the findings shall be taken by the responsible authorities and the Ministry of Culture. This could include changes in the layout (such as when finding an irremovable remain of cultural or archaeological importance) conservation, preservation, restoration and salvage.
- Implementation for the authority decision concerning the management of the finding shall be communicated in writing by the Ministry of Culture; and
- Construction work could resume only after permission is given from the responsible local authorities and the Ministry of Culture concerning safeguard of the heritage.
- The Consultant will ensure that during project supervision, the Site engineer will monitor the above regulations relating to the treatment of any chance find encountered and observed. Relevant findings will be recorded in World Bank Project Supervision Reports (PSRs), and Implementation Completion Reports (ICRs) will assess the overall effectiveness of the project's cultural property mitigation, management, and activities, as appropriate.