REPUBLIC OF IRAQ

MINISTRY OF PLANNING

Iraq Social Fund for Development SFD (P163108)

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

FOR THE

CONSTRUCTION OF ROADS
IN 3 VILLAGES OF
(BAGHEMRA SHIHAB, BIRARASH, KHATI)

IN

ERBIL GOVERNORATE

29 TH 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 OF ROADS IN 3 VILLAGES OF (BAGHEMRA SHIHAB, BIRARASH, KHATI) IN ERBIL GOVERNORATE.
Introduction	Iraq faces a historic opportunity for national reconciliation through the effective delivery of critical social services, economic growth and recovery programs. The reinstatement of trust between the State and its citizens is highly dependent on the Government of Iraq (GOI) demonstrating its capacity to deliver security, jobs and economic growth to all Iraqis, with a focus on the poor, the vulnerable and the millions of Internally Displaced People (IDP). The GOI, represented by the Ministry of Planning (MOP), requested the World Bank's support in the design and financing of a Social Fund for Development (SFD) project to support locally driven initiatives to improve the living conditions and opportunities of the poor and most vulnerable people in Iraq. The GOI has demonstrated its commitment and support to the design of this operation and established a high-level national team to guide and coordinate the development and institutionalization of the SFD, as well as five technical teams to work on the different aspects of the fund. The Project Development Objectives (PDOs) are to: (1) Improve access to basic services and; (2) Increase short-term employment opportunities, in targeted communities. This environmental and social management checklist reflects the main issues (project description and activities, baseline conditions, impact analyses, mitigation measures and monitoring arrangements). The main objective of this document is to examine the environmental and 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 develop social awareness, group responsibility.

PROJECT LOCATION & SITE DESCRIPTION

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

Project Location

The subprojects are located in (BAGHEMRA SHIHAB, BIRARASH, KHATI) These subprojects are located in the governorate of ERBIL that is located in northern of Iraq. Erbil shares internal boundaries with the governorates of Sulaymaniyah, Duhok, Kirkuk and Ninwah. (as shown in figure below).

The length of each road, coordinates, and the population in each village are shown in the table below:

Table 1: Information about the villages

No.	Village	Length (Km)	Project Duration (day)	Population	Coordinates
1	BAGHEMRA SHIHAB	4.1	180	5000	39.96835 41.94708
2	BIRARASH	2.1	180	8350	42.2151 40.07320
3	KHATI	1.5	180	4686	45.5268 40.31717
Total		7.7		18036	
	Note		_	tion numbers were gh community mobi procedures in Erbi	lization

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

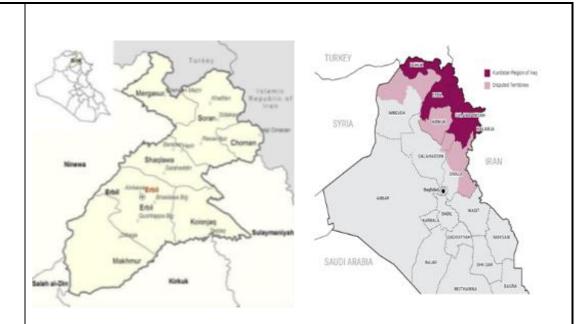
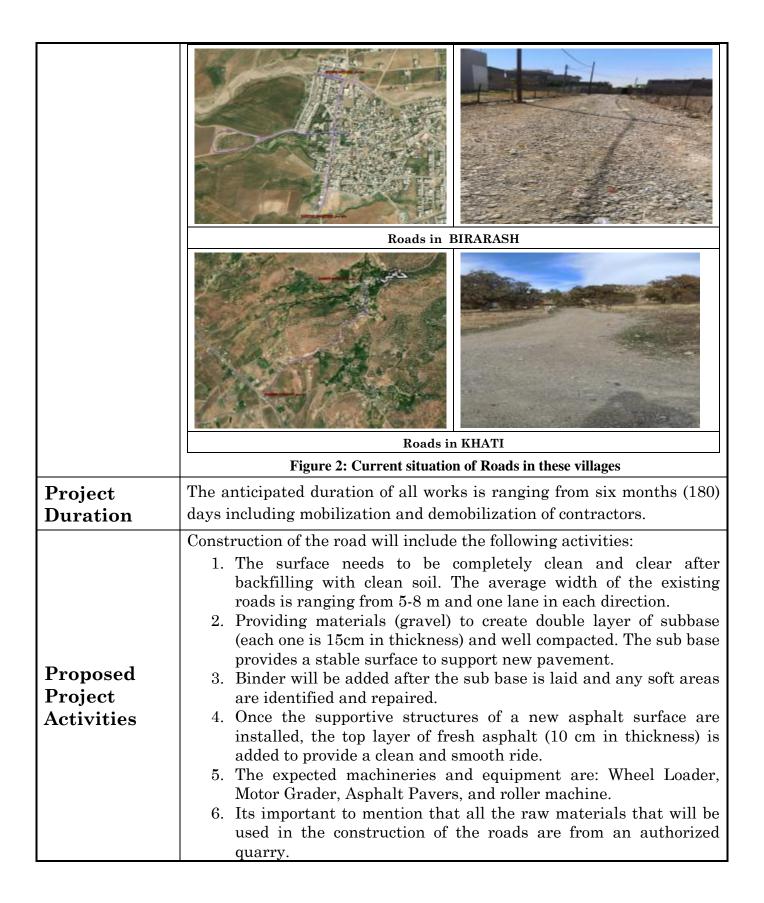


Figure 1: Project Location

The area adjacent to these subprojects' sites are characterized as rural residential and semi desertic to agricultural in some area. There are no protected areas or endangered species (there is no critical or high biodiversity values that might be affected) in the vicinity of the sites. There are no close sensitive receptors located to the subprojects site. The subprojects will improve the transportation infrastructure in these villages by providing asphalt surface to facilitate transport for local communities and road users. Moreover, the road will help the students to go to their schools easily. It important to mention that these roads are within the villages as a network, therefore the other roads can be used as alternative roads.





Land Use and Acquisition

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

The road will be constructed on state land and hence there are no issues related to land acquisition. The implementation activities will not cause relocation of people, vendors, and any individuals.

Contactor's Camp

The construction of the road will need about 15-20 worker per day for each site per day per day, Workers are expected to be hired locally, however if a construction camp is deemed necessary, it will be installed on vacant state-owned land. A portable holding tanks will be installed in the subproject, wastes 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 the adequate septic tank for sanitary effluent disposal. Due its geographical location, influx of workers to the subproject area is not expected. Most of the workers will be locals from the surrounding area and will return to their homes.

PROJECT BASELIN 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

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.

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. <u>Erbil climate: Temperature Erbil & Weather By Month (climate-data.org)</u>.

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The subproject sites are located in open areas, so the expected concentration of air pollutants is low. Air pollutants in the villages are caused mainly from movement of vehicles and trucks. Therefore, the ambient air quality is expected to be within the WHO ambient air quality standards. (Annex3).
Currently, there is no traffic congestion and consequently the existed noise level is within the normal levels.
Flooding in the area near the projects has not been reported.
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.
There are no sites of historical or cultural importance in the area. There are no cemeteries, historical-cultural monuments, churches, mosques near the project that need to be removed or will be impacted due to the construction activities.
The population of these projects area is approximately 18036. The suggested areas of the roads will be on state land, where no land or property expropriation will be necessary and is free from encroachers or squatters. All the areas around the sites remain clear of any settlement or economic use and are ready for construction works, no interference is registered from the local community which is eager for the works to be completed. It is important to mention that during the construction of the road, it is not expected to cause restriction of access or livelihood impacts. Some of the population have a degree or equivalent to Bachelor level, and some have equivalent to middle school., some of them operating small businesses and they have only a few years of basic education.
OLICIES
 The applicable national legislation is as following: The Law for the Protection and Improvement of Environment No. 27, 2009; Ministry of Water Resources Law No. 50 of 2008; Public Health Law No. 89 of 1981, amended by Resolution No.54 of 2001; Law no. 37 of 2008 regarding to Ministry of Environments (MoE) roles and responsibilities. Law No.3,1997 regarding to Environment protection Regulation for the Provision of Water Resources, No. 2, 2001;

- ➤ Instructions No. 2 of 2014 on Environmental Protection from Municipal Waste;
- ➤ Instructions no. 3 of 2015 on Hazardous Waste Management;
- ➤ Law No. 6 of 1988 concerning the National Commission for Occupational Hygiene and Safety;
- ➤ Instructions No. 12 of the year 2016: Occupational Health and Safety;
- ➤ Labor Law No. 37 of 2015;
- ➤ Law no. 89 of the year 1981, amended by Decree No.54 of 2001: Public Health;
- ➤ Law No. 41 for the year of 2015: Noise Protection and Control;
- ➤ Public Roads Law No. 35 of 2002;
- ➤ Instructions No.3 of 2012: National Emissions' Determinants for Activities and Businesses by the Ministry of Health and Environment;
- ➤ Regulation No. 4 for the year of 2012: Ambient Air Quality;
- ➤ The main WB safeguard policies applicable for SFD are:
- > OP 4.01 Environmental Assessment
- ➤ OP 4.12 Involuntary Resettlement (There might be a probability of storage of construction materials in main rural roads. Until the date of report development, no land acquisition is anticipated.).
- ➤ OP 4.11 Physical and Cultural Resources (The proposed construction activities are not expected to pose risks of damaging cultural property).
- labor influx guidance note (2016).
- ➤ WB General Environmental, Health, and Safety guideline²

The EHS guidelines entails the effective methods for managing environmental, health and safety issues in accordance with WBG requirements. This includes understanding the likelihood, magnitude and priority of the EHS risks. The EHS guidelines includes 4 primary sections and respective sub sections (applicable segments from the EHS guidelines for the sub-project are highlighted in **Red**):

1. Environmental Guidelines

- a. Ambient Air Quality Limits and Guidelines
- **b. Energy Conservation** Energy Conservation and Efficiency Methods
- c. Wastewater and Ambient Water Quality Effluent water quality and indicators for water discharge and

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

treatment

- **d.** Water Conservation Methods for ensuring reduction in water consumption
- **e. Hazardous Material Management** The appropriate Methods for managing hazardous waste and instructions on community and worker protection
- **f. Waste Management** Instructions on waste management and planning, waste prevention and safe waste disposal
- **g.** Noise Methods for prevention and control of Noise, and the applicable noise limits for different activities and exposure period
- h. Contaminated Land Management approaches for contaminated land due to different hazardous substances or waste or oil. Includes Risk Reduction measures
- 2. Occupational Health and Safety Guidelines³
 - **a.** General Facility Design and Operation ensuring appropriate facility integration of H&S, that integrates safety measures in design for different physical hazards
 - **b.** Communication and Training Ensuring there is an appropriate level of communication between workers and management, and that there is sufficient training for all workers prior to operations
 - **c. Physical Hazards** Methods for prevention of accidents or injuries that can occur due to exposure to mechanical or other physical works, including Noise and Vibrations
 - **d.** Chemical Hazards Injuries and accidents that could occur due to usage of chemicals and methods of protection and prevention. Includes management of fires and explosions
 - e. Biological Hazards Protection and Management of different biological agents
 - f. Radiological Hazards Management and Limits for Radiation Exposure
 - **g. PPE** Guidance on usage of PPE and clearly highlighting that it should be considered the last resort

https://www.ifc.org/wps/wcm/connect/1d19c1ab-3ef8-42d4-bd6bcb79648af3fe/2%2BOccupational%2BHealth%2Band%2BSafety.pdf?MOD=AJPERES&CVID=nPtgxyx

- h. Special Hazards Environments Guidance on Managing different environments that can present a risk to workers such as confined spaces.
- i. Monitoring Efficient monitoring of occupational health and safety programs and mitigation measures. This includes the Occupational Accident Reporting frequency
- 3. Community Health and Safety Guidelines⁴
 - **a.** Water Quality and Availability Ensuring the protection of nearby water resources such as groundwater and surface water sources.
 - **b.** Structural Safety of the Project Potential Hazards that could occur due to poor design and methodology for dealing with those hazards. Includes the general approach that architects/structural engineers must follow to ensure community safety is considered during design
 - **c.** Life and Fire Safety (L&FS) Ensuring that project design is in accordance with local regulations and requirements, and that it integrates Fire safety standards.
 - **d.** Traffic Safety Includes the potential risks and impacts on traffic and from traffic that occurs due to the project. Includes recommend measures to deal with traffic risk
 - e. Transport of Hazardous Material Approach and Guidelines for transporting hazardous material, including a hazard assessment and emergency response plan.
 - **f. Disease Prevention** Includes the recommended interventions and methods to protect the community from communicable diseases and vector borne diseases
 - **g. 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
- 4. <u>Construction and Decommissioning Guidelines</u>⁵
 - **a. Environment** covers the different environmental factors that could be affected by the construction activities including soil erosion, disturbance to water bodies,

⁴ https://www.ifc.org/wps/wcm/connect/eeb82b4a-e9a8-4ad1-9472-

f1c766eb67c8/3%2BCommunity%2BHealth%2Band%2BSafety.pdf?MOD=AJPERES&CVID=nPtgxTd

https://www.ifc.org/wps/wcm/connect/7d708218-2a9e-4fcc-879d-

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

disturbance to air quality, wastewater discharges etc.

- **b.** Occupational Health and Safety Different OHS risks due to construction or decommissioning works
- **c.** Community Health and Safety Different Hazards that can occur due to the project and affect the surrounding community.
- ➢ Grievance Redress Service

PUBLIC CONSULTATION & GRIEVANCE REDRESS MECHANISMS

The consultations were carried out in the village for the construction of Roads on the **October 2022**, Group consultations were conducted with the villagers, and accordingly a questionnaire was formulated to cover the main environmental and social aspects related to the sub-project.

The purpose of conducting the consultation activities is to achieve the below:

- 1. Introduce the construction subproject of the road.
- 2. Disclose information regarding the Grievance Mechanism resources in place.
- 3. Discuss anticipated environmental and social impacts associated with the project.
- 4. Propose extensive mitigation measures to address potential environmental and social risks associated with the project activities.

The formatted questionnaire was then addressed to 10 women and 26 men in Three villages the surrounding community randomly to have their opinions and thoughts regarding the construction activities.

Consultation Results:

All those interviewed expressed their support to the project. All interviewees expressed their hope that the completion of the project will lead to more goods moving through their areas. 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.

Public Consultation Process

All participants in the village expressed that the construction of the Road will have a positive impact on their social daily life. Please refer to Annex 1 and Annex 2 for sample of the consultations for both men and women in 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:

- 1) All interviewed locals agreed that the construction activities of road will serve all the people in the village and have a strong positive impact from the social perspectives on the locals via improve their achievements and performance via simplifying the ways of communications.
- 2) No infrastructure will be affected negatively due the construction activities and there is no need for alternative roads.
- 3) No vegetation covers, crops, plants, trees...etc. will be removed in order to execute the construction activities of the road.
- 4) No claims from any locals were recorded or alleged regarding the ownership of the land where the road will be constructed.
- 5) No deportation, dislocation of any of the local community will be needed due to these activities.
- 6) The construction of the project will enhance the economic situation of the people via saving transportation fares to achieve their daily requirements.

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, feedbacks or comments like WhatsApp, Facebook, email and complain boxes for each subproject. Additionally, GRM focal points will be

GRM Process

assigned at local level and central level to be in charge of handling complaints. The focal point will maintain a log and report on grievance management, which includes minutes of meetings, resolutions and recommendations as part of an annual project progress report.

The information for the central office is:

#	Name	Job Title	Phone Number	E-mail
1	Husam A. Shaael	GRM Team leader	$\begin{array}{c} 07833344263 \\ 07733344263 \end{array}$	Sfd.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 at 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	E-mail
			Number	
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 Log Book, containing the name/group of commenter/complainant, date the comment was received, brief description of issue, information on proposed corrective actions to be implemented (if appropriate), and the date of response sent to the commenter/complainant. Complaints should be sorted out

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

High-Level Feedback

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

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

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

Standard-Level Feedback

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

Aggrieved persons 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 Checklist 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.

INSTITUTIONAL CAPACITY BUILDING

Will there be any capacity building?

[] N or [x]Y

It is recommended to provide safety trainings and induction sessions to the workers and engineers who will be employed throughout the construction phase. Moreover, there needs to be more training on GRM implementation in order to ensure its proper functioning in the future.

PART B: SAFEGUARDS SCREENING AND TRIGGERS

ENVIRON	ENVIRONMENTAL /SOCIAL SCREENING FOR SAFEGUARDS TRIGGERS					
Will the	Activity / Typology	Status	Triggered Actions			
site	1. Re/construction of urban,	[X] Yes	This subproject is mainly construction			

activity		inter-urban or rural roads	[] No	of roads.
include/in volve any of the following?	2.	Reconstruction of / impacts on surface drainage system	[] Yes [X] No	The subproject doesn't entail any major reconstruction or impact on Surface drainage system
	3.	Activities in Historic building(s) and districts	[] Yes [X] No	The construction activities do not take place anywhere near historic buildings or districts and
	4.	Required acquisition of land or temporary / permanent impacts on livelihoods	[] Yes [X] No	No land acquisition is required for this subproject as the activities will be taking the road will be constructed on state owned land.
	5.	Handling or presence of hazardous or toxic materials	[] Yes [X] No	There are no 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 [X] No	
	8.	Traffic and Pedestrian Safety	[X] Yes [] No	If "Yes", see Part C

PART C: MITIGATION MEASURES/ CONSTRUCTION PHASE

	3,1	
No.	Potential Impacts	Mitigation Measures
1	General Conditions	 The local construction and environment inspectorates and communities have been notified of upcoming activities. The public has been notified of the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works). All guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. All legally required permits have been acquired for construction and/or rehabilitation. The Contractor formally agrees that all work will be carried out in a safe and disciplined manner designed to minimize impacts on neighbouring residents and environment. Workers' PPE will comply with international good practice (always hardhats, as needed masks and safety glasses, harnesses and safety boots) There is posted material indicating the nearest police station and hospital (with accident and emergency facilities). The contractor must take reasonable steps to prevent unauthorized people accessing the site. Prohibit the burning of waste on site. Provide a first aid kits in different places of the work site with the appropriate number of materials given the number of workers on site. The workers will be noted about the locations of the first aid kits. Providing extinguishers which distributed within the working area. If work involving the use of flammable materials is being carried out or any other material that might make any danger, stop people smoking and do not allow other work activities involving potential ignition sources to take place nearby. Providing site boundaries (if any) by installing suitable physical boundaries (barriers, tape or fence).

No.	Potential Impacts	Mitigation Measures
No.		15) The contractor should put up barriers or covers in the area of openings and excavations if any. 16) Site areas should be clear from explosive remnants of War (ERW) Unexploded Ordnance (UXO) before commencing the work in the site. 17) Everyone who works on any site must have access to adequate toilet and washing facilities, a place for preparing and consuming refreshments, and an area for storing and drying clothing and personal protective equipment (PPE). 18) Contractor to ensure PPE (personal protective equipment) is used by all workers on site. 19) Materials and equipment are tidily stacked, protected and covered where necessary. Additionally, there is adequate space for new materials to be stored in secured covered areas to avoid damage, theft, and to protect these items from weather conditions. 20) Ensure that distance is maintained between drivers and workers when unloading construction materials and recommend that drivers remain in their vehicles whenever possible to avoid COVID-19. 21) Appropriate signposting of the sites will inform workers of key rules and regulations to follow. 22) The contractor should provide full insurance coverage schema of all type of workers. The insurance should cover work related accidents (Injuries and fatalities) as well as insurance for third party. 23) Rigid obligations and penalties will be added to the contractor/subcontractors' contractual agreements in order to guarantee child labor is prohibited in the project. Penalties to be applied in cases where workers under the age of 18 are hired.
2	Generation, storage, disposal of constructio n, hazard, and domestic waste ⁶	 "Ensure appropriate drainage channels and gutters to avoid water-logging and address any access issues across such drainage channels. Site rehabilitation after completion of works Waste collection and disposal pathways and sites will be identified for all major waste types expected from construction activities. Construction and demolition waste, if any, will be separated from general refuse, organic, liquid and chemical wastes by on-site sorting and stored in appropriate containers. Construction waste will be collected and disposed properly by licensed collectors to authorized area. The records of waste disposal will be maintained as proof for proper management as designed. Whenever feasible Contractor will reuse and recycle appropriate and viable materials Simple waste management plan for specific waste streams must be developed. General waste must be collected and transported to the approved disposal sites. Food wastes must be collected, where practicable, considering health and hygiene issues, for disposal off-site through licensed contractors.
3	Hazardous wastes and materials ⁷	 Waste containers must be located at each worksite with sufficient numbers. Hydrocarbons, including lubricants, which will be very limited and resulted just from machines/truck shall be collected for safe transport outside the site for recycling, transport or disposal at approved sites to be nominated by the Municipality and the Ministry of Health and Environment The site will be cleaned from all wastes frequently and wastes will be stored in safe containers until transported The waste shall be transported by specially licensed Transporters and disposed

⁶ https://www.ifc.org/wps/wcm/connect/456bbb17-b961-45b3-b0a7-c1bd1c7163e0/1-6%2BWaste%2BManagement.pdf?MOD=AJPERES&CVID=nPtgwEW
https://www.ifc.org/wps/wcm/connect/90231ba8-5bb3-40f4-9255-eaf723d89c32/1-

<u>5%2BHazardous%2BMaterials%2BManagement.pdf?MOD=AJPERES&CVID=nPtgwml</u>

No.	Potential Impacts	Mitigation Measures
		of in the special areas to be determined by the authority. 4) Paints containing solvents, solvents or lead-based paints might use for road furniture shall not be used as per requirements, instructions and coordination with the Ministry of Science and Technology 5) Empty containers of treatment chemicals shall be returned to suppliers.
4	Air quality ⁸	 Demolition debris, excavated soil and aggregates shall be kept in controlled area and sprayed with water mist to reduce debris dust when necessary There will be no open burning of construction / waste material at the site. All machinery will comply with Iraqi emission regulations, shall well maintained and serviced and there will be no excessive idling of construction vehicles at sites
5	Noise ⁹	 Construction noise will be limited to restricted times agreed to in the permit All the workers will be supplied with fully safety measures including earmuffs.
6	Runoff water and drainage systems	 Procedures will be put in place for rapid response to accidental spills of fuels, lubricants and other toxic or noxious substances, and for their recovery and appropriate disposal Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies. There will be no unregulated extraction of groundwater, nor uncontrolled discharge of process waters, cement slurries, or any other contaminated waters into the ground or the water resource. Drainage system: A well-designed drainage system is crucial in preventing flooding on roads. This can involve constructing gutters and culverts to divert water away from the road surface and into nearby waterways or drainage systems. Elevation: Raising the height of the road can also be an effective measure in preventing flooding. This can be achieved by adding layers of asphalt or concrete to the existing road surface, or by building up the road bed. Slope stabilization: Slope stabilization measures such as the use of retaining walls or vegetative cover can prevent soil erosion and landslides, which can contribute to flooding. Floodplain management: In some cases, the road may be located in a floodplain. In these situations, it is important to implement floodplain management measures such as land use restrictions, flood warning systems, and evacuation plans to mitigate the impact of flooding.
7	Groundwat er quality	Sewage from construction offices and rest areas will be collected in septic tanks and transferred by trucks to the nearest sewage treatment plant by authorized contractors.
8	Traffic	 In compliance with national regulations, the Contractor will ensure that the construction site is properly secured and construction related traffic regulated. The site will be clearly visible and the public warned of all potential hazards by signposting and barriers / fencing Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement If required, active traffic management by trained and visible staff at the site for safe passage for the public Ensuring safe and continuous access to all adjacent office facilities, shops and residences during construction
9	Occupation al and	 Provide adequate signage to prevent accidental falling into open areas All guidelines from the WB and national instruction should be followed to
	ai aiiu	2) An guidennes from the WD and national instruction should be followed to

⁸ https://www.ifc.org/wps/wcm/connect/4e01e089-ad1a-4986-b955-e19e1f305ff0/1-

^{1%2}BAir%2BEmissions%2Band%2BAmbient%2BAir%2BQuality.pdf?MOD=AJPERES&CVID=nPtgvbS https://www.ifc.org/wps/wcm/connect/4a4db1c5-ee97-43ba-99dd-8b120b22ea32/1-

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

No.	Potential Impacts	Mitigation Measures
	community health & safety conditions	prevent or mitigate the transmission of COVID-19 related to this context. The contractor should develop and implement "EHS Procedures". Include Construction OHS Plan (submitted and approved by the Resident Engineer) prior to the start of construction. It will address all the risks anticipated including, but not limited to: Working in confined space (inside sheet piles), Risk of sinking, Electrocution, and Safety of equipment. Deployment of HSE procedures for the construction personnel. Ensure that workers receive advice and instructions on how to conduct daily self-monitoring and report the most common symptoms for COVID-19. Create and train a COVID-19 response team, comprising contractors, managers and workers, with clear responsibility. During the loading and unloading of debris specific measures should be applied: Covering the trucks using polyethylene sheets to avoid the falling of debris b. Trucks should use unpopulated routes as much as possible For proper implementation of Community Health and Safety mitigation measures during construction, it is essential to establish and sustain an open and transparent dialogue between MoP/contractor and the affected communities in full compliance with the WB standards related to stakeholder engagement activities. It is necessary to put signs telling the citizen that the road is undergoing paving and that the alternative route should be identified. Dapply the concept of universal access to the design and construction of buildings or any structures where technically and financially feasible (i.e. access to all users, including persons with disabilities such as wheelchair users) A grievance mechanism should be made available to community people12) Rigid obligations and penalties will be added to the contractor/subcontractors' contractual agreements in order to have the contractors adhere to all World Bank policies and regulation and is in compliance with measures listed in the ESMP.
10	Social Impacts	 Reducing impacts on the community through community and neighbour engagement. Provide the proper GRM for handling complaints
11	Child labor and Gender Based Violence	 Rigid obligations and penalties will be added to the contractor contracts in order to warrantee no child labor exist in the subproject The PMO will oblige the contractor to keep a copy of IDs of laborers in order to monitor the hired staff (Chapter 11 of the 2015 Labor Law of Iraq sets the age for hazardous works 18 years old). The contractor also will be obliged to maintain daily attendance sheets in order to verify the attendance of workers in case of accidents and provide the injured persons with proper health insurance The code of conduct for workers/contractors should be introduced to prevent misconducts, including prevention of sexual harassment and gender-based violence and also training and awareness rising for workers should be continued, through daily toolbox talks and other training opportunities. Implement all facets of the established grievance mechanism, ensuring anonymous channels are available.

MITIGATION MEASURES/ OPERATION PHASE

In	npact	Mitigation Measures	Responsi bility	Supervisi on	Total estimated Cost in
1	• Air quality	• During the license issuance or renewal process of vehicles, traffic authorities to ensure that all vehicle engines are in good conditions.	Traffic Departme nt	Traffic Departme nt	No direct cost
2	• Noise	 During the license issuance or renewal process of vehicles, traffic authorities should ensure that all vehicle engines are in good conditions. Speed limits should be reduced especially near residential buildings. Limit trucks movement especially at night in coordination with the local traffic authorities. 	Traffic Departme nt	Traffic Departme nt	No direct cost
3	Solid and hazardous wastes	 During the operational period, some littering and waste generation resulting from the repair activities will occur. Littering may occur due to wind action. All waste should be deposed through licensed haulers/transporters to licensed and regulated landfill sites appropriate to the type of waste generated 	Authority	Local Authority (Municipal ity)	Within municipal budget
4	Flora & Fauna	Not applicable	Not Applicable	Not Applicable	Not Applicable
5	Runoff and drainage systems	• Regular maintenance of drainage systems, culverts, and other infrastructure is essential in preventing flooding. This can involve clearing debris from culverts, repairing damaged infrastructure, and maintaining vegetation cover.	Local Authority	Local Authority	Within municipal budget
6	Topography and landforms	Not Applicable	Not Applicable	Not Applicable	Not Applicable
7	Handling Complains	The continued operation of a GRM for one year following operating of the Road for use will ensure that local community members have an accessible, fair and transparent means of reporting any emerging adverse impacts, and a means of obtaining mitigation.	Local	Local authorities	No cost
8	Health and Safety	 Provision signage to improve visibility and overall safety of roads, particularly along stretches located near Roads or other locations where children may be present. Having a clear set of emergency Plan and Procedures. provision of health and safety information; regular inspection, review and recording of EHS performance; 		Resident engineer	Included in contractor cost

Impact	Mitigation Measures	Responsi bility	Supervisi on	Total estimated Cost in
	Total cost US\$ (Operation phase)			No Cost

PART D: MONITORING PLAN/ CONSTRUCTION PHASE

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

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

	Potential	otential San 1. San		Respon	sibility	Additional Cost in USD	
No.	Impacts	Mitigation Measures	Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring
2	Generation , storage, disposal of constructio n, hazard, and domestic waste	 annex 4 Waste collection and disposal pathways and sites will be identified for all major waste types expected from construction activities. Construction and demolition waste, if any, will be separated from general refuse, organic, liquid and chemical wastes by on site sorting and stored in appropriate containers. Construction waste will be collected and disposed properly by licensed collectors to authorized area. The records of waste disposal will be maintained as proof for proper management as designed. Whenever feasible Contractor will reuse and recycle appropriate and viable materials Simple waste management plan for specific waste streams must be developed. General waste must be collected and transported to local council approved disposal sites. Food wastes must be collected, where practicable, considering health and hygiene issues, for disposal off site through licensed contractors. Waste containers must be located at each worksite with sufficient numbers. Guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. Storage, transport and handling of all chemicals must be conducted in accordance with all legislative requirements, through licensed contractors and in coordination with the local authority. 	Weekly site inspections and verifying the records on waste disposal	Contractor	Resident Engineer	No additional cost	No additional cost
3	Handling of hazardous wastes and materials	 Hydrocarbons, including lubricants, which will be very limited and resulted just from machines/truck shall be collected for safe transport outside the site for recycling, transport or disposal at approved sites to be nominated by the Municipality and the Ministry of Health and Environment The site will be cleaned from all wastes frequently and wastes will be stored in safe containers until transported The waste shall be transported by specially licensed 	Weekly site inspections and verifying the records on waste disposal	Contractor	Resident Engineer	No additional cost	No additional cost

	Potential	ntial	Monitoring	Respor	sibility	Additional	Cost in USD	
No.	Impacts	mpacts Mitigation Measures		Implement ation	Monitoring	Mitigation measures	ditional ost of water 500 Additional cost 750 US No No additional	
		tankers and disposed of in the special areas away from the city to be determined by the paddies. 4) Paints containing solvents, solvents or lead-based paints shall not be used as per requirements, instructions and coordination with the Ministry of Science and Technology. 5) Guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context.						
4	Deteriorati on of air quality ¹⁰	 Demolition debris, excavated soil and aggregates shall be kept in controlled area and sprayed with water mist to reduce debris dust During pneumatic drilling or breaking of pavement and foundations dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site The surrounding environment (sidewalks, roads) shall be kept free of soil and debris to minimize dust There will be no open burning of construction / waste material at the site. All guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. All machinery will comply with Iraqi emission regulations, shall well maintained and serviced and there will be no excessive idling of construction vehicles at sites 	Ambient air quality test, 1 time prior to construction to obtain the baseline Air quality parameters: PM10, PM2.5, SO2, NOx, CO, Ozone and HC Compliance with dust abatement measures (Annex 3)	Contractor	Resident Engineer	Additional cost of water 500	done by accredited Laboratorie s. Additional cost	
5	Increased level of noise ¹¹	 Construction noise will be limited to restricted times agreed to in the permit All the workers will be supplied with fully safety measures including earmuffs. Compliance with the time limitations; Switching off the equipment not in use; Use of protective gear 	Weekly site inspection (Annex 3)	Contractor	Resident Engineer	No additional cost	additional	
6	Disruption of the	1) Procedures will be put in place for rapid response to accidental spills of fuels, lubricants and other toxic or	Weekly site inspection during rainy season;	Contractor	Resident Engineer	additional cost:	No additional	

¹⁰ https://www.ifc.org/wps/wcm/connect/4e01e089-ad1a-4986-b955-e19e1f305ff0/1-

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

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

	Potential			Respon	sibility	Additional Cost in USD		
No.	Impacts	Mitigation Measures	Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring	
	runoff water and drainage systems	noxious substances, and for their recovery and appropriate disposal 2) Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies 3) There will be no unregulated extraction of groundwater, nor uncontrolled discharge of process waters, cement slurries, or any other contaminated waters into the ground or adjacent streams or rivers;	Bi-weekly site inspection during dry seasons: Signs of spillage of hazardous materials Testing in case of accidental spills of hazardous materials			contingenc y for removal of accidental hazardous spills 1000 US \$	cost	
7	Deteriorati on of groundwat er quality	Sewage from construction offices and rest areas will be collected in septic tanks and transferred by trucks to the nearest sewage treatment plant (Annex 3)	Weekly site inspection during rainy season; Bi-weekly site inspection during dry seasons Water testing: in case of accidental spills of hazardous materials: pH, Turbidity, (EC), Color, Total Suspended Solids (TSS), (TDS), (COD), (BOD),	Contractor	Resident Engineer	No additional cost	Testing done by Accredited Laboratorie s. Additional cost 500 US \$	
8	Disruption of traffic	 1)In compliance with national regulations the Contractor will ensure that the construction site is properly secured and construction related traffic regulated. 2)The site will be clearly visible and the public warned of all potential hazards by signposting and barriers / fencing 3)Traffic management system and staff training, especially for site access and near-site heavy traffic. Provision of safe passages and crossings for pedestrians where construction traffic interferes. 4)Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement 5)Ensuring safe and continuous access to all adjacent office facilities, shops and residences during construction 	Monthly site surveillance for the presence of fencing/barriers and warning signs, and traffic speed limitations	Contractor	Resident engineer PMO	No additional cost	No additional cost	
9	Deteriorati on of	Provide adequate signage to prevent accidental falling into open areas	Inspection and photo evidence	Contractor	Resident engineer	No additional	No additional	

	Potential			Respon	sibility	Additional	Cost in USD
No.	Impacts	Impacts Mitigation Measures M		Implement ation	Monitoring	Mitigation measures	Monitoring
	health & safety conditions	 Fencing of the work areas. The contractor should develop and implement "EHS Procedures". Include Construction OHS Plan (submitted and approved by the Resident Engineer) prior to the start of construction. It will address all the risks anticipated including, but not limited to: Working in confined space (inside sheet piles), Risk of sinking, Electrocution, and Safety of equipment. To ensure worker safety, health insurance must be provided to all type of workers All guidelines from the WB and national instruction should be followed to prevent or mitigate the transmission of COVID-19 related to this context. Deployment of HSE procedures for the construction personnel 	Maintaining records of injuries and accidents with cause and location			cost	cost
10	Social Impacts	1) Reducing impacts on the community through community and neighbour engagement. 2) Provide the proper GRM for handling complaints. This GRM should be sensitive to gender and assure confidentiality. Specific engagement with women and girls that includes awareness on GBV and access to anonymous channels to report cases. Training GRM focal point on how to handle SEA/SH related grievances. 3) Ensure that the Worker's Code of Conduct and corresponding training concerning commitment of Labour towards the community and the different behavior that should be avoided emphasizes zero tolerance of gender-based violence (GBV) i.e., sexual harassment, sexual exploitation and sexual abuse.	Weekly monitoring of response to complaints Training on GRM GBV sensitive channel + attendance sheet	Contractor	Resident Engineer	No additional cost	Purchasing of the required equipment \$750 UD
11	Child	1) Rigid obligations and penalties will be added to the contractor		Contractor	Resident	No	No

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

	Potential			Respon	sibility	Additional	Cost in USD
No.	No. Impacts Mitigation Measures		Monitoring	Implement ation	Monitoring	Mitigation measures	Monitoring
	labor and Gender Based Violence	 contracts in order to warrantee no child labor exist in the subproject The PMO will oblige the contractor to keep a copy of IDs of laborers in order to monitor the hired staff (Chapter 11 of the 2015 Labor Law of Iraq sets the age for hazardous works 18 years old). The contractor also will be obliged to maintain daily attendance sheets in order to verify the attendance of workers in case of accidents and provide the injured persons with proper health insurance The code of conduct for workers/contractors should be introduced to prevent misconducts, including prevention of sexual harassment and gender-based violence and also training and awareness rising for workers should be continued, through daily toolbox talks and other training opportunities. The monitoring of workers' compliance to the Code of Conduct when interacting with the surrounding communities to avoid behaviors such as GBV. Implement all facets of the established grievance mechanism, ensuring anonymous channels are available. 	Inspection and Biweekly monitoring Signed Worker's Code of Conduct Trainings on Code of Conduct + attendance sheet GRM		Engineer	additional	additional cost
	Expected additional mitigation costs: USD 1500						TIGD COMO
		Expected monitoring co	sts:				USD 2250

ANNEXES

Annex 1: Consultations Photos



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

استبيان الصندوق الاجتماعي للتنمية لمحافظة عزيزتي الموطنة عزيز و الموطنة عزيز الموطنة عزيز الموطنة عزيز الموطنة عزيز الموطنة عزيز و الموطنة عزيز و الموطنة عزيز و الموطنة الموطنة الموطنة الموطنة و الموطنة الموطنة الموطنة و الموطنة و الموطنة	استبيان الصندوق الاجتماعي للتثمية لمحافظة مرسك المستوي المستوي الاجتماعي التثمية لمحافظة مرسك المستوي المستوي الاجتماعي التثمية إسم ميداني لفرض التشاور المجتمعين مع أبناء القرية هول الإجراءات البيئية والاجتماعية التي سيتم تفاقد بمسوس تثقيد المشاريع في القرية ومدي الأو ما على المجتمع المعتبي والبيئة المحيطة، راجين الاجتمة وحيادية عن الاستبيان التألي دون العاجة فنكر الاسم أو وسيئة الانتصال .
المسرالمشروع: اليساء طرامع مي الفرادة	اسم المشروع: النشاء طريق عي الحري
الله الله الله المراكب الله الله الله الله الله الله الله الل	اللحقاء اللحق الل
 إ. فل هناك ادعادات او مطالبات من قبل السكان المحليين يحادية الارض العالم عليها العشروع؟. ت مم كا كلا و ماحطات. ٣. فل موكون هناك ضرر على الشاطات و المصالح اليومية للأهاتي يديب الإعمال الإنشائية المشروع؟. ٣. فل موكون هناك اي يتى تحقية مناثار يديب الإعمال الإنشائية العشروع ؟. ٣. في هناك اي يتى تحقية مناثار يديب الإعمال الإنشائية العشروع ؟. ي كلا و ماحطات و ماحطات على المحلى يديب اللهة المشروع في القرية؟. ي موف يتأثر المجتمع المحلى يصورة سليمة تنهجة المشاريع الطامة؟. ي نعم كلا و ماحطات و ماحطات ٢. فل اعمال الشاء او اعادة كنهل المشروع ستوار يشكل سلين على المجتمع الإكثر شبطا و الإكثر هشائلة (النساء والمحالين) ؟. ي مم كلا و محالات كلاحة المحالية المحالية المحالية المحالية المحالية المحالية المحالية على المحالات كل كلا و محالات كلا المحالات كلا المحالات كلا المحالات كلا المحالات كلا المحالات كل المحالات كل المحالات كل المحالات كل كلا المحالات كل كلا المحالات كل المحالات كل المحالات كل المحالات كل المحالات كل كلا المحالات كل كلا المحالات كل المحالات كل المحالات كل المحالات كل المحالات كل كلا المحالات كل المحالات كلسان المحالات كل ال	 إ. هل هذك ادعاءات او مطالبات من قبل السكان المحلمين يعادية الارض المقام عليها المشروع؟. إ. على سيكون هذك شرر على التشاطات و المصالح اليومية للأعلى يسبب الاعمال الالشائية للمشروع؟. إ. هل طبك اي يتى تحلية ستتاكر يسبب الاعمال الالشائية للمشروع ؟. إ. عل طبك اي يتى تحلية ستتاكر يسبب الاعمال الالشائية للمشروع ؟. إ. عل طبك الاعدة توطين لشخص او لعدة الشخاص يسبب اللهة المشروع في القرية؟. ع. عل بناك اعدة توطين لشخص او لعدة الشخاص يسبب اللهة المشاروع في القرية؟. م. عل سوف يتأثر المجتمع المحلى يصورة سليبة تتيجة المشاريع المقامة؟. إ. على اعدال المشاع او العدة تاهيل المشروع ستؤثر يشكل سليبي على المجاميع الاكثر شعقا والاكثر فشاشة (النساء والمعالين) ؟. ي نعم ي كلا ي ملاحظات ي نعم ي كلا ي ملاحظات
 بل تتوقع ازادة محاصيل زراعية او الشهار او اية خطاء نبائي تعود عاديته امواطنين او سكان محليين بسبب الاعدال الانشائية تلمشروع؟. 	 بر حل تتوقع ازائة محاسبل زراعية او اشجار او اية غطاه نبائي تعود عانديته تمواطنين او سكان محليين بسبب الاعمال الانشائية للمشروع؟.
ى تحم كان كلا و ملاحظات ٨. خل سيوش المشروع في الثقافة السكتية (اسكتية قدوم مواطنين من مناطق نخرى الى القرية يسبب المشاريع التي سنتظ)؟ ك تحم و كلا و ملاحظات	ن لعم ﴿ ﴾ كلا ﴿ ۞ ملاحظات ٨. هل سيوائر المشروع في الكثافة المسائلية (المثانية قدوم مواطلين من ملاطق اخرى الى الغزية يسبب المشاريع التي سنتفة)؟ ﴾ نعم ﴿ كلا ﴾ ملاحظات
 صم = 200 محمد محمد	 ٩. هل تعقد أن عملية تشاء أو اعدة تأهيل المشروع لها الله البجليبة من الناصية الاجتماعية بالنسبة للسكان القاطئين في المشاطق ر الغربية من المشروع؟.
ک نم ۵ کلا و ملاحظات	g tan 13 N ag at 15
شغراً على وقتكم	شقراً على وفتكم

استبيان الصندوق الاجتماعي للتنمية لمحافظة الراسل

عزيزتي المواطنة... عزيزي المواطن.... تُجري(وزارة التفطيط / الصندوق الاجتماعي للتنمية) مسح ميداني نفرض التشاور المجتمعي مع أيناء الطرية هول الإجراءات البينية والاجتماعية التي سيتم اتخاذها بخصوص تتفيذ المشاريع في الغربة ومدى الارها على المجتمع المحلي والبينة المحيطة، راجين الإجابة بصدق وحيادية عن الاستييان التلي دون الحنجة لذكر الاسم أو وسيلة الاتصال.

حبر بي و دراره المصدول المستوى الجهداعي مسيح المسم مهامي علوهن التساور المجتمعي عم ابناء الدوية حول المجتمع المستوى النبينة الإجراءات البيانية والاجتماعية التي سيتم الفقاها بفصوص تنايذ المشاريع في القريبة ومدى الله ها المجتمع المطبي والبينية المحيطة، راجين الإجباء بصدق وحياته الاعسال .	الإجراءات البينية والاجتماعية التي سيتم اتخلاها بخصوص تتفيد المشاريع في القريبة وسدي الذرها على المجتمع المحلي والبينة المحيطة، راجين الإجابة بصدق وحيادية عن الاستييان التالي دون الحاجة لذكر الاسم أو وسيلة الاتصال .
اس العشروع: العب المعرف من لغرى	اسم المشروع: انستاء طرب تي لعرب
الله المراجع المراجع الله المراجع الله المراجع الله المراجع الله المراجع الله المراجع الله المراجع المراجع الله المراجع المراج	الله الله الله الله الله الله الله الله
العصر: بنة المهلة: ن موظف ن مثقاه كانب ن طالب ن رية بيت	العصر:
 ١٠. هل هناك ادعادات او مطالبات من قبل السكان المحليين بعادية الارض المقام عليها المشروع؟. ١٠ نمر دعادات او مطالبات من قبل السكان المحليين بعادية الارض المقام عليها المشروع؟. 	 بل هنتك ادعادات او مطالبات من قبل السكان المحليين بعادية الارض المقام عليها المشروع؟. نامم كالا ي محمدات.
 ال سياون هذاك ضرر على الشباطات و المصالح اليومية للأهالي يصبيه الاحدال الإنشائية للمشروع؟. 	 فل سيكون هذك شرر على التشاطات و المصالح اليومية للأهالي يسبب الإعمال الإنشائية للمشروع؟.
ي لعم 🕝 کلا 🕝 ملاحظات	ير لعم ك كلا ير ملاحظات
٣. هل هذك اي يتي تحتية ستتأثر يسبب الاعسال الانشامية للمشروع ٢.	٣. هل هناك اي يني تحدّية سنتائر يسبب الاعمال الانشائية للمشروع ٢.
ن نمر ن کلا ن ملائمالات	ن لعم 🕥 کلا ن ملاحظات
 ق. على هذك اعادة توطين تشخص أو لحدة الشخاص بسبب الحامة المشروع في الغرية؟. 	 ق. هل هنك اعادة توطين لشخص او لعدة الشخاص بسبب اللمة المشروع في القرية؟.
و کلا ن ملاحظات	ک نم ن کلا ن ملاحظات
 هل سوف يتثر المجتمع المحلي يصورة سلبية تتيجة المشاريع المقامة؟. 	 هل سوف يتأثر المجتمع المعلي يصورة سلبية تليجة المشاريع المقامة؟.
ن نعم کا کا در در مالکات	ن نعم کی کلا و ملاحظات
 قل اعدل الشاع أو اعادة تاهل المشروع ستؤثر بشكل سلبي على المجامع الانشر ضعفا والانشر هشاشة (النساء والمعافين) ٢. 	 هل اعمال انشاء او اعادة تاهل المشروع ستؤثر بشكل سليم على المجاميع الاعتر ضعا والاعتر هشاشة (النساء والمعاقين) ؟.
ونم وكلا وملاحقات	ن لمر ككل و ملاحظات
٧. هل تتوقع ازالة معاصيل زراعية أو الشجار أو اية غطاه نياتي تعود عانديته تمواطنين أو سكان محليين يسبب الإعمال الإنشانية	٧. هل تتوقع از الله محاصيل زراعية او السجار او اية غطاء نياتي تعود علديته لمواطنين او سكان محليين يسبب الاعمال الانشانية
للمشروع".	المشروع؟.
ن تمم و کلا ن ملامظات	ن قمم ك كلا ن ملاحظات
 ٨. هل سيوثر المشروع في الكثافة السكانية (امكانية قدوم مواطنين من مناطق الحرى الى القرية بسبب المشاريع التي ستنفذ)؟ 	 ٨. هل سيونر المشروع في الكافة السكائية (اسكائية فنوم مواطنين من مناطق الحرى الى الغرية يسبب المشاريع التي سنتفة)؟
الم ن کلا ن ملاحظات	ال تعم ال كلا ال ملاحظات
 قل تعتقد أن عملية أنشاء أو أعادة تأهل المشروع لها الله ليجليية من الثامية الإجتماعية بالتمنية للسكان القاطئين في المشاطق 	 فل تعلق أن عملية الشاء أو اعادة تأهل المشروع لها التار أيجابية من الناهية الاجتماعية بالنسبة النسكان القاطنين في المشطق
القريبة من المشروع".	القريبة من المشروع!.
و نم نم ن کلا ن ملاحظات	ال كلا و ملاحظات
شكراً على وقتكم	شكراً على وقتكم

استبيان الصندوق الاجتماعي للتنمية لمحافظة أرسل

تُجري (وزارة التفطيط / الصندوق الاجتماعي التنمية) مسح ميداني لغرض التشاور المجتمعي مع أبناء القرية حول

عزيزني المواطنة... عزيزي المواطن...

استبيان الصندوق الاجتماعي للتنمية لمحافظة

عزيزش المواطنة ... عزيزي المواطن...

تُجري ﴿ وَزَارَةَ التَغْطِيطُ ﴾ الصندوق الاجتماعي للثلمية ﴾ سبح ميداني تغرض التشاور المجتمعي مع أيناء القرية حول الإجراءات البينية والاجتماعية التي سيتم الخذها يخصوص تتفيذ المشاريع في الغرية ومدي الارها على المجتمع المطي والبيشة المحيطة، راجين الإجابة بصدق وحيادية عن الاستبيان التالي دون الحاجة تذكر الاسم أو وسيلة الاتصال.

10	بطول	طِيق	ایشار	أسم المشروع :
	-	0		

-5 ap

🗆 رية بيت

هل هذاك ادعاءات او مطالبات من قبل السكان المحليين يعادية الارض المقام عليها المشروع؟.

ن ملاحظات

هل سيكون هذك شور على النشاطات و المصطح اليومية للأهلي يسبب الاعمال الانشئية للمشروع؟.

هل هذاك أي بني تحتية ستتأثر بسبب الاعسال الانشائية للمشروع ٢.

350

هل سوف يتأثر المجتمع المطي بصورة سلبية نتيجة المشاريع المقامة؟.

٩. هل اعدل الشاء او اعادة تاهيل المشروع ستؤثر بشكل سلبي على المجاميع الاكثر ضطا والاكثر هشاشة (النساء والمعالمين) ٢.

٧. هل تتوقع ازالة محاصيل زراعية او اشهار او اية غطاه نبائي تعود عاديته لدواطنين او سكان محليين يسبب الاصال الاششية للمشروع؟.

ن ملاحظات

٨. هل سيوثر المشروع في الكثافة السكانية (امكانية قوم مواطنين من مناطق اخرى الى القرية بسبب المشاريع التي ستنفق)؟

سے نعم

 إ. هل تعلق أن عشية أنشاء أو أعادة تأهيل المشروع لها أثار أيجابية من الناهية الاجتماعية بالتسبة للسكان القاطلين في المناطق القريبة من المشروع؟.

رر ملاحظات

شكراً على وقتكم

استبيان الصندوق الاجتماعي للتنمية لمحافظة

عزيزتي المواطئة ... عزيزي المواطن...

تُجري (وزارة التخطيط / الصندوق الاجتماعي للتنمية) مسح ميدائي تغرض التشاور المجتمعي مع أيناء القرية حول الإجراءات البينية والاجتماعية التي سيتم اتخلاها بخصوص تتفيذ المشاريع في القرية ومدى الثرها على المجتمع المحلي والبينة المعيطة، راجين الإجابة بصدق وحيادية عن الإستبيان الثالي دون الحاجة لذكر الاسم أو وسيلة الاتصال.

الجنس: الله الله العسر:

كا ربة بيت

هل هناك ادعاءات او مطالبات من قبل السكان المحلين يعادية الإرض المقام عليها المشروع؟.

ال مالحظات

هل سيكون هناك ضرر على النشاطات و المصالح اليومية للأهالي يسبب الاعمال الانشائية للمشروع!.

ال ملاحظات 35 0

هل هذاك أي يني تحتية ستتأثر يسبب الاعمال الانشائية للمشروع ؟.

ال مالحظات 35 12

هل هذاك اعادة توطين لشخص أو لعدة اشخاص بسبب اقامة المشروع في القرية؟.

رر ملاحظات

هل سوف يتأثر المجتمع المحلى بصورة سلبية تتيجة المشاريع المقامة؟.

25 8

قل اعمال الشاء أو اعادة تاهيل المشروع ستوثر بشكل سئبي على المجاميع الاكثر ضطا والاكثر هشاشة (النساء والمعالين) ؟.

ال الم الع كلا رر ملاحظات

٧. هل تتوقع ازالة معاصيل زراعية أو اشجار أو أية غطاء نباتي تعود علديته لمواطنين أو سكان مطبين بسبب الاعمال الاشدالية المشروع".

> 🖂 ملاحظات 144

٨. هل سيوثر المشروع في الكثافة السكائية (امكانية قدوم مواطنين من مناطق اخرى الى القرية يسبب المشاريع التي سنتفذ)؟

٩. هل تعتقد أن عملية أنشاء أو اعادة تأهيل المشروع لها الله إيهابية من الناهية الاجتماعية بالنسبة السكان القاطنين في المناطق القريبة من المشروع؟.

ن ملاحظات

شكراً على وقتكم

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

Ambient Air Quality Guidelines

Dollutout	Iraqi Standards		WHO Standards
Pollutant	Concentration	Average Time	Concentration
со	10 ppm	8 hours	N/A
	35 ppm	1 hour	N/A
SO ₂	0.1 ppm	1 hour	500 μg/m³
	0.04 ppm	24 hours	20 μg/m ³
	0.018 ppm	1 year	N/A
NO ₂	0.05 ppm	24 hours	200 μg/m³
	0.04 ppm	1 year	40 μg/m³
Ozone (O ₃)	0.06 ppm	1 hour	100 μg/m ³
PM ₁₀	150 μg/m³	24 hours	50 μg/m³
PM _{2.5}	65 μg/m ³	24 hours	50 μg/m ³
FIVI _{2.5}	15 μg/m ³	1 year	15 μg/m ³
Total Suspended	350 μg/m³	24 hours	N/A
Particles	150 μg/m³	1 year	N/A
Falling Dust	10 t/Km²/month (Residential Zone)	30 days	N/A
	20 t/Km²/month	30 days	N/A
	(Industrial Zone)		
Hydrocarbons	0.24 ppm	3 hours	N/A
	2 μg/m ³	24 hours	N/A
Pb	1.5 μg/m³	3 months	N/A
	1 μg/m ³	1 year	N/A
Benzene	0.003 μg/m ³	1 year	N/A
Dioxin	0.6 pico g/m ³	1 year	N/A

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
pH	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 ⁻)	0.05	0.5
Fluoride (F ⁻)	5.0	10
Free Chlorine (Cl ₂)	Traces	100
Chloride (Cl ⁻)	 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. B. If the ratio of the amount of water discharged to the amount of source water is more than 	600

Pollutant	Limits for discharge to water resources	Limits for discharge to public sewers
	 1000:1 the wastewater discharge must not exceed a chloride concentration of greater than 600 mg/L. C. If the concentration of chloride in the source water is less than 200 mg/L then the permitted discharge limit must be established on a case by case basis 	
Phenol	0.01 – 0.05	5 – 10
Sulfate (SO ₄ ²⁻)	 A. If the ratio of the amount of water discharged to the amount of source water is 1000:1 or less, the sulfate concentration of the discharge is permitted at 1% of the concentration of the natural source before discharge. B. If the ratio of the amount of water discharged to the amount of source water is more than 1000:1 the wastewater discharge must not exceed a sulfate concentration of greater than 400 mg/L. 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 	300
Nitrate (NO ₃)	50	-
Phosphate (PO ₄ ³⁻)	3	-
Ammonium (NH ₄ ⁺)	-	-
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

Pollutant	Limits for discharge to water resources	Limits for discharge to public sewers
Chromium (Cr)	0.1	0.1
Aluminum (Al)	5.0	20
Barium (Ba)	4.0	0.1
Boron (B)	1.0	1.0
Cobalt (Co)	0.5	0.5
Iron (Fe)	2.0	15
Manganese (Mn)	0.5	-
Silver (Ag)	0.05	0.1
Total Hydrocarbons & Derivatives	Allows discharge of total hydrocarbons to water sources and A1 and A2 according to the concentrations and limitations set forth in the tables below; the concentration of hydrocarbons must be measured discharging to the water source. Hydrocarbons shall not be discharged to water sources A3 and A4. For rivers in continuous flow 10 mg/l according to the ratio of the amount of wastewater discharged to the amount of the water source should not be less than 1000:1. For a river in a continuous flow 3 mg/L and in accordance with the ratio of the amount of the wastewater discharged to the amount of water source should not be 300:1 or less.	-
Sulfide (S ²⁻)	Nil	3.0
Ammonia (NH ₃)	Nil	10
Ammonia gas (free NH ₃)	Nil	6.0
Sulfur dioxide SO ₂	Nil	7.0
Calcium Carbide CaC	Nil	Not allowed
Organic solvents	Nil	Not allowed
Benzene	Nil	0.5
Chlorobenzene	Nil	0.1
TNT	Nil	0.5
Bromine (Br ₂)	Nil	1-3

يجب على مقاول الإنشاء الالتزام بالإجراءات التالية:

جودة الهواء

- الترطيب المنتظم للطرق بالماء لمنع الغبار
- التحكم في نواتج الحفر والتسوية للحد من إنتشار الغبار.
- أي مواد بناء قابلة للتطاير (أسمنت جاف وخلافه) يتم تخزينها في أكياس محكمة الغلق وتغطيتها لمنع تولد الغبار.
- الاحتفاظ بالمازوت والزيوت والطلاء والمواد الكيميائية الأخرى المستخدمة في الموقع بأقل كميات ممكنة وتخزينها في حاويات محكمة الغلق للحد من الأبخرة ؟
 - لا يتم تشغيل محركات المركبات والآلات الأخرى إلا عند الضرورة لتجنب الانبعاثات غير الضرورية ؛
- يتم الحفاظ على جميع المعدات والآلات والمركبات المستخدمة في الموقع في حالة عمل جيدة في جميع الأوقات لضمان الحد الأدنى من استهلاك الوقود وعوادم الدخان. ينطبق هذا على الحافلات المستخدمة لنقل العمال من وإلى الموقع.
 - منع الحرق المكششوف للمخلفات.
- يتم تغطية الشاحنة الناقلة لمواد/مخلفات البناء أو المواد المتربة الأخرى وذلك بعد التأكد من الاحتفاظ بمسافة ٢.٠ متر تحت الحافة العلوية لجدران الشاحنة ، بالقماش المشمع للتحكم في الغبار ؛
 - تغطية درم الحفر المخزن بصفة مؤقتة في الموقع بالمواد المناسبة ، مثل البولي إيثيلين أو ألواح النسيج لتجنب تشتت التربة.
 - تحديد سرعة قصوى للمركبات والمعدات التابعة للمشروع بحيث ألا تتجاوز السرعة القصوى داخل حدود الموقع عن ١٠−٥٠ كم/ساعة.
 - توفير خط ساخن لتلقى الشكاوي ٢/٢٤

الضوضاء

- 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 القربية من مواقع العمل ؟

- · تقييد استخدام الآلات التي تصدر ضوضاء بالقرب من المستقبلات الحساسة ، واستخدام 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 الأمكان ؛
 - 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 وبالتسيق مع البلدية.
 - يجب تخزين جميع النفايات الخطرة بشكل ملائم في مناطق محدودة ويجب تحديدها بوضوح على أنها "خطرة".
 - يجب أن يتم نقل النفايات الخطرة والتخلص منها من خلال مقاولين مرخصين وبالتنسيق الوثيق مع البلدية ذات الصلة ووفقًا للمتطلبات والتعليمات القانونية.
 - يجب إدارة السوائل الخطرة ، مثل المذيبات وعوامل مقاومة الصدأ طبقاً لمتطلبات التشريعات ذات الصلة.

- يجب إعداد جرد للمواد الخطرة لفترة البناء.
- يجب توفير أصحيفة بيانات سلامة المواد (MSDS) للمواد الخطرة في الموقع أثناء البناء وإتاحتها وشرحها للعمال.
- يجب جمع نفايات المواد الهيدروكربونية ، بما في ذلك زيوت التشحيم ، للنقل الآمن خارج الموقع لإعادة استخدامها أو إعادة تدويرها أو نقلها أو التخلص منها في مكب معين من قبل البلدية.

إعادة استخدام النفايات وإعادة التدوير

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

حفظ السجلات

- سيتم الاحتفاظ بكافة سجلات إزالة النفايات والإبلاغ عنها كما هو مطلوب في تقرير الأداء البيئي الشهري ؟
- السجلات التي سيتم الاحتفاظ بها تشمل: إيصالات وفواتير من مقاول نقل النفايات ومنشأة استلام النفايات
- يتم الاحتفاظ بالسجلات السالفة الذكر في سجل النفايات ، الذي يسجل تواريخ الجمع ونوع النفايات والكميات وشركة نقل النفايات والوجهة وتوقيع الشخص المفوض تخزين النفايات ومعالجتها
 - سيتم تخزين النفايات في حاويات أو صناديق. لن يتم تخزينها مباشرة على أرض غير مبطنة ؛
 - سيتم تخزين نفايات إعادة التدوير في مناطق أو حاويات منفصلة ، ولن يتم خلطها مع أنواع النفايات الأخرى ؟
 - عجب تخزين جميع النفايات الخطرة بشكل ملائم في المناطق المحصورة وتحديدها بوضوح على أنها "خطرة"
 - معالجة النفايات وإدارتها بشكل صحيح من خلال فصل النفايات الصلبة عن النفايات الخطرة وعدم مزجها في مكب النفايات ؟
 - سيتم جدولة إزالة النفايات من الموقع ، بحيث يكون لديك دائمًا سلة للنفايات متاحة للإستخدام في الموقع ، وللتأكد من عدم الملئ الكامل للنفايات/الحاويات ؛
 - أي مناطق تخزين نفايات مؤقتة (غير متضمنة في صناديق أو حاويات) سيتم تغطيتها و / أو إحاطتها بسياج شبكي لمنع هبوب الرياح منها إلي الموقع ؛ و
 - يتم تخزين النفايات السائلة ، بما في ذلك نفايات الزيوت والمواد الكيميائية السائلة ، في براميل / حاويات محكمة الإغلاق على سطح خرساني.

التخلص من النفايات

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

<u>جودة التربة</u>

- وضع علامات لتحديد مكان الحفر عن طريق سور ولاصقات وعلامات ارشادية.
 - إتباع الأساليب السليمة للحد من الانسكابات/التسريات؛
 - التداول والإدارة السليمة للمخلفات ومواد البناء والمواد الخطرة.
 - يتم تخزين النفايات داخل صناديق أو حاويات، وليس على الأرض مباشرة؛
 - عدم دفن و / أو حرق النفايات المنزلية في موقع المشروع.
- التخزين المؤقت للنفايات الصلبة عن طريق الاحتواء المناسب لتجنب انتشار النفايات والرائحة وتجنب الغبار؛ احتواء ثانوي لمنع التسرب.
- ضمان أن تكون حاويات المواد السائلة الخطرة / حاويات النفايات محكمة الإغلاق بشكل صحيح دائمًا ومؤمنة من الانقلاب / السقوط / التلف / أشعة الشمس المباشرة أثناء النقل والتخزين؛
 - تخزين المواد الكيميائية، مثل الزيوت ومضادات التآكل بكميات قليلة بالموقع.
 - تحفظ جميع أنواع الوقود والمواد الكيميائية السائلة في أوعية أو براميل أو خزانات محكمة الإغلاق وفوق سطح الارض.
 - يجب إجراء الصيانة والإصلاح الروتيني للمعدات / المركبات المتنقلة في ورشة عمل.
- يتم الاحتفاظ بمجموعات التنظيف الخاصة بالانسكابات بالقرب من المناطق المستخدمة لتخزين الوقود أو المواد الكيميائية السائلة وسيتلقى الموظفون تدريباً على استخدام أدوات تنظيف الانسكابات؛
 - 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 والدهانات) في حالة جيدة وخالية من الصدأ أو التلف؛
 - · تنظيف موقع البناء من المخلفات الصلبة قبل إغلاقه.
 - تخصيص مناطق معينة لتخزين مخلفات التربة ومخلفات البناء.

يجب أن يتم ترميم التربة السطحية والمناطق المتضررة بعد انتهاء مرحلة البناء.

جودة المياه

- 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.

المياه الجوفية:

- 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 الدوربين 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 صحى (يغطى تقديم الدعم الطبي في حالة الإصابة بالأمراض) وتأمين السلامة (الذي يغطى 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.

السلامة المروربة

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

عمالة الأطفال

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

التراث الثقافي

- اتباع إجراء العثور على الآثار (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 وعى 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

البنية التحتية والمرافق

- في حالة تلف أحد المرافق الموجودة تحت الأرض وأنابيب البنية التحتية ، يجب اتباع الإجراءات القياسية ، بالإضافة إلى إعداد تقرير توثيقي للحادث.
 - في حالة قطع المياه، يجب إعلام المجتمع المحلى قبل القطع
 - تنفیذ آلیة للشکاوی

إدارة الخدمات الموقعية

- إقامة المخيم داخل أراضي محطة المياه
- ضمان إقامة كرفانات البناء الملائمة ومرافق الصرف الصحى للبناء، أي إنشاء خزان لتخزين المياه العادمة المنزلية الناتجة عن المخيم.
 - اتباع أفضل ممارسات إدارة المخلفات وتدابير التخفيف الواردة في خطة الإدارة البيئية والاجتماعية.
 - مراقبة ظروف العمل عن كثب ، وفرض تدابير للتحكم في انتقال الأمراض المعدية.
- الحفاظ على آلية فعالة للتظلم (تمت مناقشتها في فصل مشاركة أصحاب المصلحة). يجب أن تكون آلية معالجة المظالم هذه حساسة للنوع الاجتماعي وتضمن السرية
 - انخراط محدد مع النساء والفتيات يتضمن التوعية بالعنف القائم على النوع الاجتماعي والوصول إلى قنوات مجهولة للإبلاغ عن الحالات.

العقوبات وإلغاء التعاقد

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

التفاصيل	الإجراء	المراحل
يجب أن يتلقى المقاول بيان تحذير يتضمن الإجراء التصحيحي المقترح.	التحذير	المرحلة الأولي
يجب أن تبدأ جميع الإجراءات التصحيحية في مدة لا تزيد عن أسبوعين.		
يجب على المقاول اتخاذ الإجراء التصحيحي بشكل سريع.		
في حالة عدم 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