Republic of Yemen

Ministry of Public Works and Highways Rural Access Program – Central Management Office

United Nations Office for Project Services

Yemen Emergency Lifeline Connectivity Project (P 177053)

Environmental and Social Management Plan
Rehabilitation of Al Azariq – Al Dhalea Rural Road
Al Dhalea Governorate – Al Azariq District

Table of Contents

Summary Sheet	3
1. Introduction	3
2. Subproject description	4
2.1. Location details	4
2.2. Scope of work	6
3. Environmental and social baseline conditions	9
3.1. Environmental aspects	9
3.2. Socioeconomic aspects	11
4. Environmental and social management at the subproject area	12
4.1. Subproject potential risks and impacts	12
4.2. Institutional arrangements	17
4.3. Environmental and social risks management and monitoring	18
4.4. Implementation budget	33
4.5. ESMP reporting	33
5. Stakeholder engagement and information disclosure	35
6. Grievance mechanism	36
Annex 1 Subproject environmental and social screening form	37
Annex 2 Subproject photos	38
Annex 3 Environmental and social requirements for contractors	38
Annex 4 Public consultation questionnaires	52
Annex 5 Consultation records samples	54
Annex 6 Due diligence report	54

Abbreviations

BoQ	Bill of Quantities
C-ESMP	Contractor Environmental and Social Management Plan
cm	centimeter
cu. m.	Cubic Meter m³
EHS	Environmental, Health and Safety
E&S	Environmental and Social
ESF	Environmental and Social Framework
ESHS	Environment, Social , Health, and Safety
ESMF	Environmental and Social Management Framework
ESMP	Environmental and Social Management Plan
ESS	Environmental and Social Standard
ESSO	Environmental and Social Safeguards Officer
GBV	Gender Based Violence
GM	Grievance Mechanism
HSSE	Health, Safety, Social and Environment
km	Kilometer
L.M.	Linear Meter
LMP	Labor Management Procedures
m	meter
mm	millimeter
N.A.	Not Applicable
OHS	Occupational Health and Safety
PPE	Personal Protective Equipment
RF	Resettlement Framework
RAP	Rural Access Program
SEA	Sexual Exploitation and Abuse
SH	Sexual Harassment
SEP	Stakeholder Engagement Plan
SMP	Security Management Plan
sq.m.	square meter m ²
TPM	Third Party Monitoring
UNOPS	United Nations Office for Project Services
YELCP	Yemen Emergency Lifeline Connectivity Project

Summary Sheet

Table 1 Subproject summary sheet

Subproject Name	Al-Azariq – Al-Dhalea Rural Road Rehabilitation
ID Number	ELC-RAP-DHL-002
Subproject Location	Al-Dhalea Governorate – Al-Azariq District
Implementing Partner	Rural Access Programme (RAP)
Subproject Proposed Risk	Moderate
Date of the field visits	2 November 2022
Consultation date	2 November 2022
ESMP Estimated	US\$ 15,500
implementation cost	
Implementation period	10 months

1. Introduction

In December 2021, the World Bank approved Yemen Emergency Lifeline Connectivity Project (YELCP) with objectives to provide climate resilient road access and employment and entrepreneurship opportunities to the food insecure rural population of Yemen. YELCP will be implemented in Yemen by the United Nations Office for Project Services (UNOPS) in partnership with the Rural Access Program (RAP) as a local implementation partner. The Project will finance the rehabilitation of lifeline rural access roads in selected areas in Yemen to contribute toward addressing road access to food and other humanitarian needs. Al-Azariq – Al-Dhalea rural road is one of the roads that has been selected and will be rehabilitated as part of the YELCP support. The subproject location was selected based on local needs and priorities in consultation with the relevant stakeholders and authorities at various levels.

An Environmental and Social Management Framework¹ (ESMF) for the YELCP was prepared by UNOPS to meet the requirements of the World Bank's Environmental and Social Framework (ESF), UNOPS requirements and national laws and regulations. For YELCP UNOPS has also prepared the following instruments: (i) a Labor Management Procedures (LMP), (ii) a GBV/SEA/SH Plan, (iii) a Security Management Plan (SMP), (iv) a Resettlement Framework (RF), and (v) a Stakeholder Engagement Plan (SEP).

Subproject screening was performed jointly by UNOPS and RAP following the YELCP ESMF requirements, and the screening table is available in annex 1. The risk level of the subproject was identified as moderate as it is mainly limited to rehabilitation and improving of existing unpaved road following the applicable design requirements. Further information on the associated risks is detailed in section 4.1 hereinafter. The current Environmental and Social Management Plan (ESMP) has been prepared based on the guidelines available in the YELCP ESMF section 7.3.2.

2. Subproject description

2.1. Location details

This subproject is located in the southwestern region of the Republic of Yemen in the southwest of Al-Dhalea governorate.

¹ YELCP ESMF. Retrieved from

 $[\]frac{https://documents1.worldbank.org/curated/en/099210001112224568/pdf/P1770530ESMF020210120310FNL.}{pdf}$

Al-Dhalea governorate is one of the Yemeni governorates established after Yemeni unification in 1990. The governorate is bordered by Ibb and Al-Bayda governorates from the north, Al-Bayda and Lahj governorates from the east, Lahj governorate from the south, and Ibb and Taiz governorates from the west. The governorate is divided into nine administrative districts, and the city of Al-Dhalea is the governorate capital.



Figure 1 Yemen map with Al-Dhalea governorate marked in red

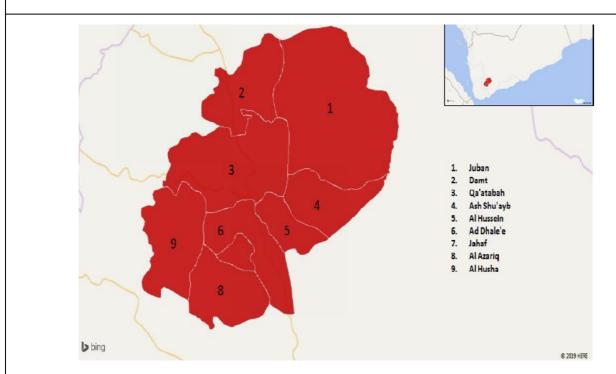


Figure 2² Al-Dhalea governorate and its districts, subproject located in Al-Azariq district no 8 in the Map

The subproject starting point is in the southwest of Al-Dhalea city, the governorate capital. The route of the subproject continues towards the south through the topography of flat to rolling and mountainous terrain with a length of 9.865 km, and the road passes through a number of villages including Dar Al.Mtahen, Mgren, Al.Ddarb, Al.Dhanabh, Al.Qobbh, Al.Masna'ah, and Waalan.

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² Mapping of Local Governance in Yemen Governorates

The subproject end point is located in the Waalan village next to Al-Azariq Hospital and district administrative complex.

The table below includes subproject start and end points coordinates as well as the rehabilitation length and width that will be maintained across the road track.

Table 2 Subproject details and coordinates

	Start Point		End Point		Length	Average
Road	Latitude	Longitude	Latitude	Longitude	(meter)	Width (meter)
Al-Azariq – Al-Dhalea	13.678246	44.723435	13.620367	44.705988	9,865	6

The alignment of the subproject and the whole intervention follows an already existing track. The road alignment can be divided into three (3) main sections based on the current characteristics of each section as well as the planned subproject activities. Road sections are categorized below:

Section 1 station 0+000 (subproject start point) to station 4+365

The first part of the section, from the starting point to the station 0+670 is 0.67 km long with average width of 6 to 7 meters and it passes through flat to rolling terrain of moderate slope. In this part only the cutting works were carried out. This section needs rehabilitation and upgrading activities including the implementation of asphalt paving works.

The second part of the section from station 0+670 to station 4+365 is 3.695 km long with average width of 6 to 7 meters. The asphalt paving work has been completed, and it needs maintenance work for the structural elements (the Inlet and Outlet of culverts, some walls, Ditch,), in addition to the removal of the soils and rocks that accumulated on the road sides.

Section 2 station 4+365 to station 9+865 (subproject end point, Waalan Village)

This road section has a length of 5.5 km with average width 5 to 6 meters and it passes through flat to rolling terrain of moderate slope. The alignment is unpaved following an existing track in which all excavation work has been completed a few years ago under other Project.

Figures 3 to 5 below provide an overview of the road sections, road photos with the current condition at the different sections are available in annex 2.

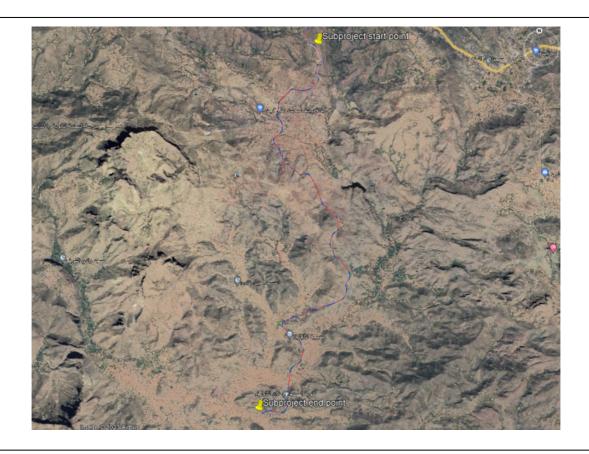


Figure 3 Overview of the targeted road rehabilitation track marked in red and blue with the start and end points

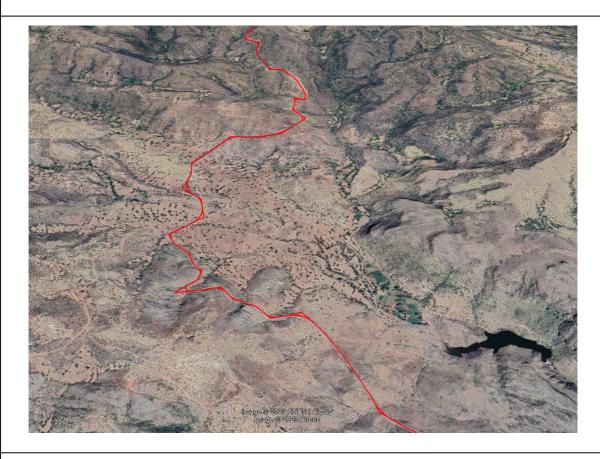


Figure 4 road track from start point to station 4+365

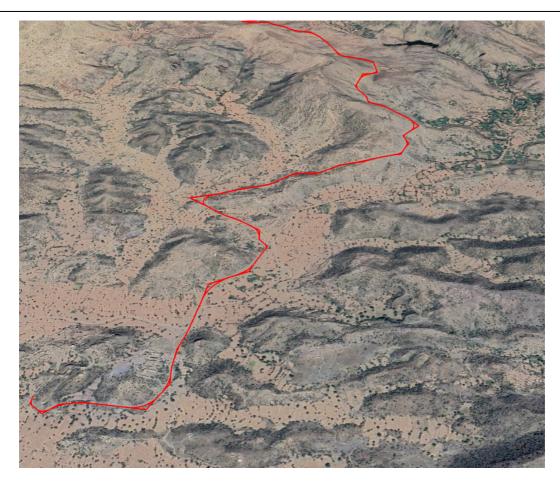


Figure 5 road track from station 4+365 to the subproject end point

2.2. Scope of work

The subproject includes the rehabilitation of an existing unpaved road and upgrading the pavement surface to asphalt standards with maintenance work at the first section that already has an asphalt pavement structure.

The activities under the subproject will include generally: earth excavation, fill of borrow materials, subgrade preparation, granular base coarse, bitumen prime coat, asphalt concrete wearing, structural excavation for culverts and retaining walls, reinforced concrete pipe culverts, irrigation plastic pipes, concrete mixture, high tensile steel, cyclopean concrete, grouted riprap and stone masonry for retaining walls and culverts with safety and environmental works.

The subproject will take into consideration the climate change resilience to ensure sustainability through improving road drainage system capacity, ensuring work quality resistant to flash flood, adjustment of structural design of the pavement (flexible, semi-rigid and rigid/composite designs), etc. in which such aspects have been considered during the design stage. The road safety requirements including the drainage design capacity have been determined and applied during the design phase in which such design has been reviewed and verified through multiple stages to ensure the applicable standards following the UNOPS/RAP requirements are met.

Exact location of the civil work materials not yet identified, potential locations were recommended during the assessment and the final source will be determined by the Contractor and approved by the supervision engineer. All civil work materials shall be sourced from authorized quarries located outside of ecologically sensitive zones, archeological zones, conflict zones, and high OHS risk zones, with no child labor employment or forced labor allowed. The exact location of quarries shall be approved by the supervision engineer and to be determined in coordination with the local authorities and communities. The use of explosives are strictly forbidden under WBG financed projects

All materials, equipment and tools that are needed for the road civil work activities shall be stored in a dedicated location fully controlled by the contractor, such location should be officially rented by the contractor, if owned by local people, or appropriate official permits to be obtained with agreement of communities and supervision engineer, if the land is public.

2.2.1 Engineer's Facilities³⁴

- Provision of rented site office, housing and accommodation for engineer staff for 10 months in areas close to the work location and does not impact local communities privacy and security.
- Provision of rented laboratory equipment including operation cost for 10 months.
- Provision of rented survey equipment including operation cost 10 months.

2.2.2 Excavation Work⁵

- Roadway common excavation 16,019cu.m.
- Roadway rock excavation 18,100cu.m.
- Fill of suitable material from common excavation and/or rock excavation 9,536cu.m.
- Fill of borrow material 4,988cu.m.
- Disposal of surplus and/or unsuitable excavated material, outside the right of way to locations approved by the supervision engineer and authorities, 24,583cu.m

2.2.3 Pavement and Shoulders

- Preparation of 20cm subgrade layer 4,370cu.m.
- Preparation of subgrade layer, in cut locations. The work shall include scarifying to a depth of not less than 15 cm, watering and compacting 22,890cu.m.
- Granular base course layer 150mm thickness 6,334cu.m.
- Provision and spray bituminous prime coat, as per specification 34,951sq.m.
- Provision and lay asphalt concrete wearing course 40mm thickness 1,350cu.m.
- Shoulder preparation using screened materials 14,230sq.m.

2.2.4 Structural Works

- Structural excavation 25 to 150 cm for culverts, retaining walls 7,171cu.m.
- Concrete class 110/25 blinding for culverts, retaining Walls 59cu. m.
- Concrete class 250/20 for culvert top slab, cut off wall and slab 142cu. m.
- Cyclopean concrete Class 210/20 culvert, retaining walls, beds, barriers, paving 750cu.m.
- High tensile steel bar reinforcement 22.5 Tons.
- Grouted riprap 25 cm thick roadside for ditches, slope protection and culvert inlet & outlet 17,325 sq.m.
- Gabions for slope Protection 715cu.m.
- Stone masonry dressed coursed with mortar for retaining walls, culverts, and safety barriers
- Boulder masonry for retaining walls, culverts, safety barriers 484cu.m.

2.2.5 Safety Work

- Project sign board with their support, fittings and concrete foundation) (1 No).

- Small road traffic signs to be installed after completion of road rehabilitation (not exceeding 1 sq.m. area) with their support posts (70No).
- Thermoplastic, reflectorized paint for pavement marking of 10 cm (27,907L.m).
- Provision and installation of road cats eyes (two face) (350 No).

³ The contractor will be responsible for the rest of the workers' lodging, which must meet UNOPS OHS criteria and minimum requirements that include appropriate accommodation with a limited number of personnel and to be provided with the proper sanitation premises. Further details on the labor management available in section 4.1.1

⁴ The selection of all rented locations including offices, housing and location for equipment storage shall be close to the work place and in a way that does not impact local communities privacy and security.

⁵ Excavation works in the road vary from section to section based on the road condition and the necessary alignment, maximum excavation depth is 100 cm.

- Relocation of public assets into public lands⁶:
 - Relocation of existing walls 100 L.m
 - Relocation of existing fences 100 L.m
 - o Relocation of existing electrical poles (5 No).
 - o Relocation of telephone poles (5 No).
 - Relocation of drinking water pipes 200L.m.

2.2.6 Environmental Work

- Reinforced Concrete Pipe Culvert 120 cm diameter 245L.m.
- Irrigation pipes⁷ 300 mm diameter including excavation and filling 504L.m.

3. Environmental and social baseline conditions

3.1. Environmental aspects

Temperature 8

In the subproject area, the summers are long, hot, and overcast; the winters are short, cool, and mostly clear; and it is dry year round. Over the course of the year, the temperature typically varies from 11°C to 31°C and is rarely below 9°C or above 34°C.

The hot season lasts for 3.9 months, from May 13 to September 10, with an average daily high temperature above 30°C. The hottest month of the year is June, with an average high of 31°C and low of 20°C. The cool season lasts for 2.8 months, from November 25 to February 18, with an average daily high temperature below 25°C. The coldest month of the year in is January, with an average low of 12°C and high of 23°C.

Rainfall

Al-Dhalea governorate lies in the isohyetal zone of (250 to 380 mm) average annual rainfall. Isohyets of average annual rainfall in Yemen have been used to determine the rainfall pattern of the subproject area. The isohyets for the entire Yemen are available in figure 9.

Subproject area experiences some seasonal variation in monthly rainfall. The rainy period of the year lasts for 1.5 months, from July 25 to September 9, with a sliding 31-day rainfall of at least 13 millimeters. The month with the most rain is August, with an average rainfall of 15 millimeters. The rainless period of the year lasts for 10 months, from September 9 to July 25. The month with the least rain in Dhalie is November, with an average rainfall of 3 millimeters⁹.

Water

Communities around the road rely on the rainwater and wells to meet their demand for drinking water and other household purposes while the agricultural activities are mainly dependent on water wells and rain water. The activities under the subproject will not have impacts on such water resources.

Air quality and noise

There is limited information in the country on the air quality data, however there is no significant air pollution or producing large amounts of pollutants as the area is relatively undeveloped with no or limited industrial activities.

⁶All assets (walls, fences, poles and pipes) that require relocation are public and will be relocated into public lands to avoid any damage from the vehicles movement and civil works activities as described in annex 6.

⁷ These irrigation pipes are to convey irrigated water from one side of the road to the other and are located based on consultation with the water users in the area. The role of such is to safely intake the water into the road drainage system and take it out in a safe manner.

⁸ https://weatherspark.com/y/103127/Average-Weather-in-Dhalie-Yemen-Year-Round

⁹ https://weatherspark.com/y/103127/Average-Weather-in-Dhalie-Yemen-Year-Round

Noise is considered a minor concern, the concept of noise pollution is not readily recognized, and the potential adverse impacts on health are not generally known by the public. On the other hand, typical existing noise levels near the subproject site are generally limited.

Flora and fauna

The observed fauna and flora are not those particular or rare species and no protected or endangered species in the road alignment areas. The subproject areas do not include designated or protected areas or critical natural habitats¹⁰. The vegetation within subproject areas is used by the residents for their daily lives, for firewood and as rangeland for livestock.

The local communities reported a number of wildlife animals along the route, which was supported by visual inspection of the team. Monkeys and different types of birds were witnessed. The following are the existing fauna at the project area: Mammals; Fox, Monkey, Rabbit, Hyena, Cat and Dogs. Reptiles; Lizard, Snake. Birds; Pigeon, Sparrow, Bulbul, Hens and Falcon

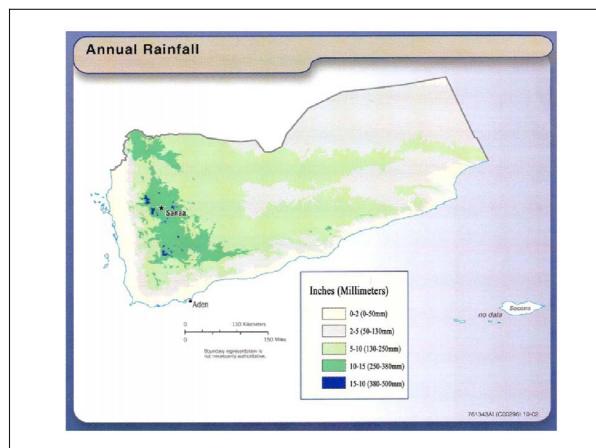


Figure 10¹¹ Annual rainfall ranges in Yemen in which the subproject lies in 250-380 mm range

3.2. Socioeconomic aspects

Land use

Most of the productive land around the targeted road, outside the right of way, is used for agriculture and the farmers are dependent on rainfall as well as water wells. Notably Maize, Millet, Sorghum, Cash crops are the most important crops produced within the subproject area with the Qat that is produced from some farms located at the subproject surrounded villages.

Population and poverty

¹⁰ For protected areas, biological resources in Yemen refer to https://www.undp.org/yemen/publications/protected-areas-yemen and https://www.cbd.int/doc/world/ye/ye-nr-05-en.pdf

¹¹ Yemen Annual Rainfall Map

The 2014 Household Budget Survey concluded that the poverty rate in Al-Dhalea governorate was 59.8%. With the decline of economic conditions in the country and the current crisis, this number has likely increased significantly. According to OCHA's 2018 Humanitarian Response Plan for Yemen, there are nearly 500,000 people, or about 70% of Al-Dhalea governorate's population, in need of assistance; 53% of them are in dire need.

A buffer zone of 2 km width is established along each side of the existing road on the base map. It is assumed that all residents within the buffer zones are accommodated by that road. The areas outside all buffers are noted as 'distressed' areas for road access. Accordingly the estimated total number of direct and indirect beneficiaries who will be served by the subproject is 57,781 of which 30,421 are men and 27,360 are women. The majority of the beneficiaries are the poor, vulnerable and those in acute need.

Table 3 Population of Al-Dhalea governorate and Al-Azariq District¹²

	20	2022 Estimation Area km ²			Population
	Men	Women	Total	Alca Kili	Density
Al-Dhalea governorate	439,000	396,000	835,000	4,098	205
Al-Azariq district	35,282	31,934	67,216	391	172

Economy

Agriculture is the most important source of income in the subproject areas and a cornerstone of its economy with a minority of locals working in the public sector or in trading. In addition, there are people who work in herding livestock such as sheep, goats, cows and camels.

Road condition and services

The targeted road is bumpy and unpaved in several sections lacking proper engineering characteristics that has resulted in risky conditions during rainy and windy conditions. This situation makes the movement of cars restricted resulting in difficulties for communities to access services such as hospitals, schools, and markets. This also affects the cost of living as the transportation and commodity prices in the surrounding areas are relatively high, which also causes an increase of the produced crops transportation cost.

Manual classified traffic counts were conducted for the road in 2 locations, one at the subproject start point and the second at the subproject end point, over 7 days / 18 hours per day. It was observed that in both traffic counting locations, passing vehicles included four-wheel drive, goods transportation vehicles and small/medium trucks. The survey concluded that the average daily traffic is 177 vehicle categorized as follow: 94 motorcycle, 8 small cars, 21 4-Wheel Drive, 12 Goods Light Vehicles, 8 small buses, 21 Light Trucks - Pickups, 11 Medium Truck 2-Axle and 2 Heavy Trucks 3-Axles)

The subproject will be implemented within existing road alignments in which there is no record of archaeological or historical sites at any of the road sections or surrounding areas¹³.

There are 5 health care facilities around the subproject areas, 1 public hospital, 2 public health centers and 2 private health centers. The public health care facilities are supported by the local authority and the humanitarian organizations.

There are 8 schools in the subproject areas, 7 elementary and 1 secondary. The salaries of teachers and other public workers are being paid regularly and education has continued without disruptions.

Security

On 2 October 2022, the UN-mediated truce in Yemen came to an end despite the efforts made to reach an extension agreement. The overall security condition within the country remains stable

¹² Population estimation; Yemen Central Statistical Organization CSO based on 2004 census.

¹³ Yemen tourism map is available in https://yemen-nic.info/tourism_site/info/map/ in which no archaeological sites are identified within the subproject area.

without conflict escalation post the truce end. The truce first came into effect on 2 April 2022 and was renewed twice for two-month periods, in June and August 2022. Among other things, it provided for a halt to offensive military operations. Overall, the eight months of truce brought several tangible benefits to the Yemeni population, including improved access to humanitarian aid, greater economic opportunities, and a significant reduction in violence and casualties countrywide. The security situation in the subproject area is stable in which there are no active conflict areas.

4. Environmental and social management at the subproject area

4.1. Subproject potential risks and impacts

The subproject implementation will result in a significant improvement for the population along the road as well the neighboring villages. Such positive impacts include an improved condition of the targeted road and prevention of further deterioration, improving drainage, environment status, and health and safety conditions of residents. The subproject will also provide an improved environment for area dwellers, creation of local employment through road rehabilitation works and local economic development. It will improve access of local communities to health and education services and transportation costs will be reduced.

The risk level of this subproject is estimated to be moderate, which requires the preparation of the ESMP as the activities will mainly consist of the rehabilitation of existing roads in the existing right of way and widening that will take place in public land where there is no cultivation nor fruit trees and no structures and encroachments. Site specific and temporary impacts may be triggered including noise, dust generation, disruption of traffic, waste disposal, hazardous materials and wastes, soil, surface and groundwater contamination from oil, fuel and chemical spills and safety risks for workers and community including occupational health and safety (OHS). In addition, the potential risks include child labor, forced labor, community health and safety, GBV/SH, impact on land and assets, spread of COVID, issues of labor management.

An assessment was conducted to evaluate whether any assets will be affected by the subproject civil work in which all assets were found outside the corridor of impact which represents the areas that might be potentially affected by the road rehabilitation activities). Further details of the assessment results are available in annex 6. However, as indicated in section 2.3.6 some public assets will require relocation into public lands including electrical, telephone poles and water drinking pipes to avoid any damage from the movement of vehicles and civil works activities.

4.1.1 Labor management

The interventions will provide opportunities for contractors, skilled, semi-skilled and unskilled labor from local communities which will reduce the negative impacts of the recent crisis in the country. All workers employed in the subproject are considered contracted workers.

While a substantial number of jobs will be created through the subproject lifetime, it is not expected that the labor influx will be experienced as the majority of the workers required by contractor will be sourced locally. Over its lifetime, 10 months, the subproject is expected to provide approximately 24,700 labor days, an average of 95 worker per day, with 4,350 labor days by skilled workers, 11,700 labor days by semi-skilled workers and 8,650 labor days by unskilled workers for which the contractor is accountable.

Estimated maximum number of workers who will be sourced from the surrounding cities and governorates is 25 to 40, and will be working in intermittent periods, in which such workers will be provided with the necessary accommodation by the contractor. Such accommodation needs to be located away from the local communities in reasonable distance to the work areas and the location to be determined/approved in coordination with the local authorities and communities. The workers shall be provided with accommodation appropriate to the circumstances of their work, including access to canteens, hygiene facilities and appropriate areas for rest. The accommodation is expected to be in portable portacabins and/or rented buildings provided with the necessary water and

electrical supply. As a minimum 4 m² per person should be assured, the number of the collective room should be minimized, 2-6 workers per room will be acceptable.

Women employment in the subproject civil work areas is not feasible considering the existing cultural and social aspects in the country. However, women employment is emphasized by UNOPS and RAP within the contractor head office in the administration and engineering roles.

Child labor will not be allowed and the minimum age of workers, 18 years, will be specified in the bidding and contracting documents. Such aspects will be verified closely by the supervision team as well as the TPM. On the other hand, forced, involuntary or unpaid labor will not be accepted in the subproject. A labor log including names, ages and other details shall be maintained by the contractor, and all related details need to be registered. RAP and UNOPS will regularly monitor this issue and will verify the registers as well as the workers' documentation. The contractor is required to provide regular awareness training, and toolbox talks to all workers involved in the implementation where all associated risks, mitigations and prevention measures need to be explained.

The Contractor shall put in place a Grievance Mechanism for workers that is proportionate to its workforce. Contractor GM system shall be communicated to all workers with a transparent mechanism for resolving complaints in addition to ensuring confidentiality. Further details on the workers GM requirements are available in annex 3 hereinafter. As guided by the YELCP LMP, the Project level Grievance Mechanism, detailed in section 6, can be used by workers if the contractor does not respond to their complaint, or if the contractor's response is not satisfactory. The channel and access to the different GMs will be provided to the workers by the contractor immediately after employment as part of the mandatory HSSE induction. Further details on the labor related issues can be found in the YELCP LMP.

4.1.2 Occupational health and safety

Workers involved in the subproject might be affected by the civil work activities. Hazards associated with the subproject include manual handling, exposure to noise/dust/hazardous substances, slip, trip and fall and electrical shocks from working near electrical poles or while transferring electrical poles. Additional hazards are associated with vehicles/equipment movements, work on powered systems, work in quarries, work at height and excavation activities. Workers might not be provided with adequate work/rest areas and might be exposed to extreme weather conditions or biological hazards. Worker's injuries might result from subproject activities, however, with appropriate management of the working area, adequate selection of workers, close supervision and appropriate management of emergencies the risk level will be significantly reduced.

The contractor shall maintain appropriate occupational health and safety aspects in the site to protect workers from associated hazards and provide adequate training, close supervision, required PPE, first aid kits, potable drinking water, appropriate rest hours, and mobile toilets with a sewage pipe attached to a properly insulated/lined and covered cesspit that will be backfilled once the job is over or the waste shall be transported to authorized sewage system if the backfilling option is not feasible. The temporary mobile toilets will be located away from groundwater sources and surface water runoff zones. Special attention shall be provided when working on the road track that requires cut excavation within the existing right of way to avoid any falling objects. The contractor shall provide the workers with the necessary PPE that is reliable and appropriate to the risk level and implemented tasks. Workers training and toolbox talks shall be conducted by the contractor on a regular basis in which the associated risks and impacts need to be clearly and frequently communicated with focus on the importance of compliance with PPE requirements. Adequate emergency management system shall be arranged by the contractor in the working area with provision of workers for the insurance following the Yemen labor law.

This subproject, like other sectors, will be under the risks of Covid-19 pandemic. The precautionary measures against it shall be strictly applied in the subproject worksites and workers' accommodation place during implementation. The contractor shall protect the workers from any risk that may be encountered during the implementation including exposure to the COVID-19 virus.

4.1.3 Noise and air quality

The activities implemented as part of the road rehabilitation will potentially have a temporary noise impact on the laborers and community. This could be the result of civil work or equipment movement. Impact and magnitude are expected to be low and contained within the civil work area.

To reduce the impact of noise on the workers involved in subproject implementation, the contractor shall ensure the integrity of provided tools (adequate selection of equipment), implement engineering control to reduce noise level in addition to provide workers with ear protection equipment where needed. Strict supervision from the contractor side as well as the supervision engineer is required to ensure compliance. Time and work duration of noise generation activities shall be reduced to the minimum, so the human exposure risk is limited.

Potential temporary impacts on air quality might be caused by the generated dust resulting from different site activities such as excavation, civil work, cleaning, building, transportation, road paving, concrete work and quarries activities. Volatile components might be emitted and cause irritation to the eye and respiratory system of the workers. Such impacts are expected to be temporary, limited with low magnitude and effect if the necessary precautionary measures are well implemented and monitored. Therefore, the mitigation measures required to avoid impacts of air quality are to reduce the dust generation during civil work by spraying water and dust sweeping in addition to installing barriers around the civil work to avoid any emissions to the occupied areas. Additionally, provision of the necessary Personal Protective Equipment (PPE) to the workers with enforcement of compliance as well as regularly conducting the appropriate training and supervision.

The generation of Greenhouse Gas emissions from the fuel combustion and the other volatile organic compounds are expected to be low with negligible impacts. Meanwhile, the contractor shall provide low fuel consumption equipment and ensure integrity by performing the regular inspection or maintenance for the fuel driven engines. Usage of renewable energy is recommended and will be implemented by the contractor where feasible. Usage of environmentally friendly and low hazardous effect substances is required for all subproject activities and shall be strictly implemented by the contractors.

Air quality at the subproject areas will be visually assessed and monitored through evaluation of the emitted dust, particulate matters and the affected areas by the supervision engineer as well as the contractor HSE officer.

4.1.4 Water, biological resources

Since the proposed intervention is limited to the rehabilitation of an existing road, disturbance to wildlife will be minor, temporary and localized and mostly due to noise and air emissions in addition to the risk of illegal hunting and poaching of wildlife during works. Removal of vegetation or vegetation disturbance may also be a risk during subproject implementation.

This risk is relevant for the road section located next to agricultural lands where agrobiodiversity is expected to be present. With proper management of air, noise, waste and air emissions this impact during rehabilitation will be negligible. In addition, proper management of vehicles, equipment and truck movement is required to avoid any damage to the existing structures and plantations. Accidental spills of chemicals such as bitumen and paint may impact soil and in turn indirectly impact plants and animals of the area. However, this risk is highly unlikely with proper management in place.

4.1.5 Land Acquisition

There will be no resettlement or displacement during the rehabilitation work, the subproject does not involve any land acquisition and / or restrictions on land use and it is not expected to have impacts on squatters or hawkers along the road. Assessment was conducted to evaluate whether any assets will be affected by the subproject civil work in which all assets found outside the corridor of impact and would likely not be impacted. Assessment results details are available in annex 6.

4.1.6 Solid waste generation

Generated rehabilitation waste will be limited to the sand and stones and domestic waste from workers that will be deposited at external waste management facilities represented by the public and authorized landfill within the governorate. Waste resulting from the workers activities, vehicles or

equipment repair shall be stored and deposited in the designated areas and waste shall not be disposed of in any of the subproject areas. The vehicles transporting the generated waste need to be properly maintained with adequate movement arrangements and qualified drivers to avoid any traffic incidents. Guidelines on the handling, transportation and disposal of various waste types are available in section 4.3 as well as annex 3 hereinafter. Close coordination shall take place by contractor with the local authorities in order to transport, treat and dispose safely of the various waste types.

4.1.7 Hazardous substances and waste

Risks associated with the handling of hazardous substances such as bitumen include workers/communities' exposure, pollution, soil contamination and water resources contamination if present near the subproject areas. With adequate management of such substances utilizing the guidance included in sections 4.3 and annex 3 hereinafter the impacts on workers, communities and environment can be largely minimized.

4.1.8 Community health and safety

The subproject will contribute to improving living standards, facilitate access to services, reduce the travel times and create additional job opportunities that will improve the overall economic condition in the area. The interventions will generate positive impacts on the livelihoods of the beneficiaries and the environment. During public consultations at central, governorate and district levels, RAP and UNOPS investigated whether the subproject is a priority, free of conflict, or had significant negative effects during the implementation. It was concluded that the subproject is an urgent priority for the community and beneficiaries, and it is completely supported by various stakeholders and all consulted persons expressed their satisfaction with the selection. Moreover, it was proven that the subproject is free of conflict sensitivity and any negative effects that may hinder implementation according to screening and consultations. In general, the subproject will improve the condition of the road to be climate change resilience which in turn will strengthen the community access to services and improve their living conditions.

The subproject will not cause restrictions for the services or resources. The implementation will follow effective measures to avoid complete closure to the road. The works will be implemented section by section. The road is 2 lanes, rehabilitation will take place in sections where appropriate vehicle access will be kept open. in addition to other mitigation measures, such as informing the public about implementation schedules. There will be close coordination with local authorities and communities to ensure smooth implementation and to avoid any potential impacts on services and resources access.

On the other hand, some negative temporary impacts might be resulting from the implemented activities such as dust, noise, vehicle movements and disturbing the services across the road, movement of traffic, bad traffic management and spread of COVID and other diseases which potentially can affect the health and safety of communities. Movement restriction in some areas might result as well and there will be a need for alternative routes provision. Therefore, all work areas shall be controlled, provided with physical barriers, sufficient lighting during night, and clear signs / instructions to avoid any unauthorized entry or any traffic incidents. Additionally, the stakeholder engagement activities will cover such issues with the communities on a regular basis.

A Community committee will be established from the different stakeholder groups at the subproject which will play a role in facilitating the implementation and monitor the progress as well as project requirements in close coordination with UNOPS, RAP, local authorities and contractor. The committee shall be formed prior to the civil work implementation in coordination between RAP and local authorities and it shall include members from the various stakeholder groups including community leaders, affected parties, local authorities, youth and societies representatives.

Strict control and management for traffic by arranging detours and alternate bypass for traffic and roadside residences for each site using traffic cones, barriers, fences, banksman or lights as appropriate in coordination with traffic officers and according to the work and traffic plan included in the contractor (C-ESMP). Moreover, there will be a traffic plan which will include arrangements for each section that should be prepared by the contractor in consultation with RAP, local authorities,

community committee and beneficiaries. The contractor shall not start any rehabilitation activities until the required plans are agreed by the various stakeholders and approved by RAP. The traffic plan shall include, among other aspects the traffic safety and control measures, workers access, civil work equipment access, safe pedestrian pathways, alternative routes, physical barriers and other measures as needed.

Additional precautions shall be taken during the subproject implementation at areas close to the buildings, private lands and services in consultation with household owners, authorities and affected parties in which the priority will be the safety of local communities. As extra precautions, light and low vibration equipment to be used near any structure that is located 3 meters or less from the corridor of impact. In addition, physical barriers such as wooden/metal plates shall be installed during the civil work activities that are implemented near such structures to avoid unauthorized entry and to reduce the impacts of associated risks.

4.1.9 Gender-Based Violence GBV and Sexual Exploitation and Abuse SEA, Sexual Harassment

Although with low magnitude and occurrence probability due to the cultural aspects in the country, UNOPS has already taken the following steps in regard to the GBV/SEA/SH issues which it will be maintained during the subproject implementation:

- During the stakeholder engagement activities, the project GBV SEA/SH action plan has been discussed. Although the consultation meeting targeted both males and females, more attention is paid to female participants. The consultations highlighted how the GBV GM is intended to be secure, and confidential with a focus on a survivor-centered approach.
- UNOPS has developed visibility materials to promote awareness for SEA/SH in the local language (Arabic). The materials and messages used are adapted to be suitable for the Yemen context and sensitivity of the subject.
- GM focal point received specialized training about SEA/SH cases and the way to deal with it using a victim-centered approach
- UNOPS has in place protocol for GM in how to deal with SEA/SH cases.
- UNOPS has conducted refresh sessions for Project Personnel in GBV/SEA/SH and trained retainers' sites engineers as well
- UNOPS has prepared risk assessment tools for GBV and will require contractors to fill out a checklist on GBV/SEA/SH and to prepare a code of conduct for their workers/staff.
- Strengthen coordination and collaboration with relevant GBV actors in Yemen, in particular the Protection Cluster, GBV sub-cluster and Child protection sub-cluster to tap into the existing referral system
- As part of the YELCP GBV SEA/SH action plan UNOPS will roll out SEA/SH prevention and response plans for contractors, where the contractors need to prepare the action plan as part of the tender documents. UNOPS is enhancing the contractors' capacity in this area. Hence, UNOPS developed an action plan template for contractors, which covers key priority areas. Moreover, UNOPS conducted an induction session for contractors about this requirement and presented to contractors ways to prepare their own GBV SEA/SH prevention and response plans (GBV Action Plans) using the developed template. In addition, in-depth training sessions will follow and will continue during the project life cycle.

4.2. Institutional arrangements

The subproject implementation period is expected to be 10 months in which UNOPS will carry out tender bidding, bid analysis, signing the contract and the overall management in cooperation with its implementing partner RAP. Onsite supervision of the civil work activities at subproject level will be handled by the RAP and a dedicated supervision team will be appointed.

UNOPS Environmental and Social Safeguards Officer (ESSO) and Health, Safety, Social and Environmental (HSSE) officers are responsible for the follow-up of overall implementation of the environmental and social requirements at the project and subprojects level.

RAP has in place ESSO at central level to follow up and report the level of compliance to the environmental and social requirements across all subprojects. RAP will hire and use a resident

supervision engineer at the subproject site to monitor the progress and report on Environmental, Social, Health and Safety (ESHS) performance.

The contractor shall appoint a qualified safety officer responsible for the day-to-day activities and to ensure compliance with the requirements stated in this ESMP as well as report on the areas of noncompliance. The summary of the ESHS requirements for contractors is available in annex 3 of this ESMP.

Section 4.3 and annex 3 hereinafter provide further details on the mitigation and prevention measures that need to take place during the subproject implementation as well as the monitoring arrangements. The ESMP requirements will be included in the subproject tendering and contracting documents.

The contractor shall prepare his own C-ESMP that reflects the environmental and social requirements including those stated in this ESMP, C-ESMP shall be reviewed and approved by RAP/UNOPS prior to commencing any activities at the subproject areas. C-ESMP shall provide a detailed explanation of how the contractor's E&S performance will meet subproject requirements. Moreover, the contractor shall sign the UN/UNOPS Code of Conduct as part of the contracting process while the workers involved in subproject implementation shall be aware of, fully understand and sign the personnel CoC that is available as an example within the annex 3 hereinafter.

UNOPS has established a Grievance Mechanism (GM) system under the YELCP to enable beneficiaries to communicate their concerns regarding the project activities. Further details are available in section 6. GBV grievances received through the YELCP GM channels will follow a dedicated protocol following the GBV action plan. The Contractor shall put in place a separate Grievance Mechanism for workers that is proportionate to its workforce, further details are available in annex 3.

4.3. Environmental and social risks management and monitoring

The following table includes the mitigation measures for the potential risks and impacts, and the cost of these measures will be handled by the contractor as part of the subproject and BoQ items implementation cost. Costs available in the table below are estimated and might vary during the implementation.

Monitoring responsibilities are: Contractor HSE officer, RAP resident supervision engineer, UNOPS ESSO/HSSE. The community committee will play a role in monitoring project progress including the environmental and social safeguards implementation in close coordination with RAP and UNOPS.

Prevention and Mitigation Measures	Estimated	Monitoring Parameters	Measures R	esponsibility
Frevention and wildigation weasures	cost US\$	Monitoring raidineters	Implementation	Monitoring
1. Occupational Health and Safety				
1.1. Work related accidents and injuries				
 Maintain insurance coverage for workers in subproject sites according to the requirements and conditions of insurance in the bidding documents which should comply with labor law, UNOPS and the World Bank requirements. Insurance for all workers' incase of deaths or injuries. Social insurance also should be provided to certain types of contracts as explained in the labor code Conduct occupational health and safety training to all subproject workers. Provide protective masks, safety helmets, goggles, shoes and overall safety materials as appropriate. Provide workers in high noise areas with earplugs or earmuffs. Ensure availability of first aid boxes at the work areas with trained staff on the emergency response. Following driving safety instructions i.e., trained/qualified drivers, following speed limits, using well maintained trucks. Heavy equipment must be inspected on a daily basis to ensure safety and to rectify any failures. Records of inspections shall be maintained by the contractor. The contractor shall maintain a banksman for heavy equipment in work sites. The contractor shall prepare an emergency plan with the C-ESMP to address the related emergencies. No explosives to be used in the road rehabilitation or activities related to the project including quarries work. Avoid working in extreme environments/weather conditions (rainy seasons/sandstorms). Add warning signs at a safe distance from the targeted road sections to warn drivers about the working area and to prevent them from running into workers while doing their 	800	 Inspection and photographic documentation Maintaining a record of injuries and accidents specifying cause and location Contractors are required to provide a list of trained workers, who will be checked for their training skills and age and the measures will be implemented onsite and followed by regular monitoring visits. Indicators Number of reported incidents Occupational health and safety training records Documents for insurance coverage of workers Number of fatalities / injuries Number of workers not adhering to wearing PPE PPE availability and distribution records 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)

Draventies and Mitigation Massures	Estimated Manitoring Parameters		Measures R	esponsibility	
Prevention and Mitigation Measures	cost US\$	Monitoring Parameters	Implementation	Monitoring	
 work. Shorten exposure time to heat or stress through frequent rest breaks. Provide appropriate drinking water Awareness needs to be provided to workers on the importance of maintaining body fluids and avoiding dehydration. Excavated zones shall be properly fenced and marked to avoid falling and access and egress to such excavation zones must be controlled. Work at height areas shall be properly marked and controlled, provision of safety belts for working at height, workers shall be trained on the work at height protection measures as well as provided with the required fall protection PPE. Any work at height platforms shall be properly secured and inspected regularly. Details of the nearest hospital and transfer vehicles shall be present on site 		- Number and type of workers grievances and solved grievances.			
1.2. Workers exposure to hazardous substances such as fuel, lubricating oil, bitumen, pa	ints and ch	emicals			
 Workers shall be trained on hazardous substances and wastes handling procedures. Hazardous substances shall be stored properly in dedicated areas following the Material Safety Data Sheets (MSDSs), national and international requirements. Ensure availability of fire extinguishers and train workers on emergency response measures. Storage areas shall be well controlled, provided with clear identification, emergency response requirements. All workers handling the cement, bitumen and hazardous substances shall be provided with reliable PPE relevant to the tasks implemented. Flammable materials shall be stored in well ventilated and secured areas, inaccessible to the public. 	400	 Inspection and photographic documentation Indicators Number of reported incidents Training records on the handling of hazardous materials and wastes MSDS availability Number and type of workers grievances and solved grievances. Substances identification by the presence of clear labels on materials 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)	

Prevention and Mitigation Measures	Estimated	Monitoring Parameters	Measures R	esponsibility
Prevention and ivilugation ivieasures	cost US\$	Wonttoring Parameters	Implementation	Monitoring
 Ensure mobile toilets are properly insulated and located away from drainage and runoff zones. Ensure cesspits are properly lined, covered and waste is disposed of in an authorized area. Ensure the mobile toilets are equipped with water and soap Ensure when the cesspits are filled, to safely transfer and dispose sewage and sludge at designated areas/facilities by the authority Provision of drinking water through distributing drinking water containers/ bottles to all working sites Ensure proper housekeeping practices are maintained. Ensure all surfaces are free from oil, grease or any other contaminants, particularly soluble contaminants. 	700	 Site inspection Indicators Number of recorded complaints Number of reported incidents Presence of pests in latrines and project site 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)
1.4. Risk of manual handling				
 Avoid manual handling activities to the extent possible. Reduce the load risk by using lighter weights or more stable containers. Reorganize the activity to further reduce the impact on the individual(s). Utilize mechanical lifting aids or equipment as appropriate. Ensure appropriate rest breaks, job rotation and training for workers. Provide PPE to the workers on a permanent basis (e.g., gloves, foot protection, and non-slip footwear) 	300	 Inspection and photographic documentation Maintaining a record of injuries and accidents specifying cause and location. Number and type of injuries Number and type of workers grievances and solved grievances 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)
1.5. COVID-19 spread causing illnesses				
 Ensure adherence to COVID-19 precautionary measures by all workers. Ensure face masks are available and used by all workers. Ensure awareness sessions are conducted on COVID-19 with all workers. Ensure availability of hygiene kits, soap, clean water Ensure social distancing is applied in the worksite. 	200	 Visual inspection and health inspections Indicators Number of infected workers Number of workers adhering to 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE

Decidation and Mittaction Massages	Estimated Monitoring Parameters		Measures R	esponsibility
Prevention and Mitigation Measures	cost US\$	ivionitoring Parameters	Implementation	Monitoring
- Ensure community is aware of the risks of spread of COVID		wearing PPEs - Number of outreach to communities.		and TPM (Monthly)
 1.6. Working at quarries and transporting stones The contractor will not develop his own quarries and shall rely on the existing quarries to source civil works materials. Required mitigation for working in quarries or stones transportation are: Use of explosives is forbidden in any of the subproject activities. Ensure all workers are aware of the risks associated with using explosive materials. Report to UNOPS any serious workplace accident or incident within 24 hours. Providing high visibility clothes for those who work in quarries. Ensure activity is done by qualified workers from the targeted areas and in case such workers are not available in the targeted areas, workers from other neighboring areas shall be employed for the task Ensure no child or forced labor used in quarries Ensure that the quarries are safe and construct barriers to protect workers from falling. Inspect quarries prior work and make sure that the rocks are cohesive and not lose to avoid falling risks Daily check for the condition of rocks and soil, especially after rain and the use of compressors. Daily awareness of the mechanism of cutting rocks is done in a safe way and it is forbidden to cut rocks from the bottom or from the top. Conduct awareness sessions about handling materials and motivate workers to ask for help from other workers when performing heavy tasks. Organizing and arranging labor at the site of stone quarries to avoid congestion between working groups. 	500	 Inspection and photographic documentation Maintaining a record of injuries and accidents specifying cause and location. Indicators Number and type of injuries recorded Related workers grievances Record of labor used in quarries 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)

Prevention and Mitigation Measures	Estimated	Monitoring Parameters	Measures Responsibility		
rievention and wittigation wieasures	cost US\$	World of the Farameters	Implementation	Monitoring	
 Check the efficiency and insulation of electrical wires of mechanical cutting equipment (Air Compression Machine). Drivers are to be aware of the importance of periodic maintenance and inspections of stone transporting vehicles and will be committed to do so. Emergency response plan is prepared, and all workers are aware of it Ensure areas where rocks are obtained have no potential risks of falling rocks and have barriers for falling rocks. Regular break to workers to reduce the weather impact and provide drinking water. 					
1.7. Risk of electrical shock					
 Minimize the potential for water or chemical spills on or near electrical equipment. Use safe work practices every time electrical equipment is used. Disconnect the power source before working on the electrical poles or connections. Ensure that workers are wearing suitable PPE Avoid working during rainy seasons. Workers on electrical connections or poles should be qualified and trained. 	N.A	 Visual observation and photographic documentation of equipment including the connections Condition of the electrical equipment Number of related incidents/failures 	Contractor	Contractor HSE officer (Daily), Supervision team (Daily) UNOPS HSSE and TPM (Monthly)	
 General environmental impacts Dust generation during rehabilitation work, excavation, backfilling, and compacting 	of the pave	ement layers. Air pollution due to emi	ssions from machi	nery	
 Properly use dust control methods, such as covers, water suppression, or increased moisture content for open materials storage piles, or controls, including air extraction. Ensure spraying water efficiently during dust suppression to avoid wasting water. Water spraying can be carried out by using graywater if available or collected rainwater where possible. Reduce the water quantities used to control dust, apply sweeping practices. Conducting cleaning activities away from drainage structures. 	1,000	 Visual observation and photographic documentation of equipment induced dust clouds during rehabilitation activities Indicators Visual presence of dust clouds Quantity of consumed fuel 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)	

Prevention and Mitigation Measures	Estimated	Monitoring Parameters	Measures R	esponsibility
Prevention and willigation wieasures	cost US\$	Worldoning Parameters	Implementation	Monitoring
 Reduce dust generation due to cutting work by spraying water when needed and avoiding spraying water where electrical live lines are presented. Cover open bodied trucks handling sand, gravel or remains and or wastes or any type of materials that can be easily spread in the air . Regularly clean road surfaces within the rehabilitation sites to remove accumulated fine material, and regularly clean transportation vehicles. Ensure turning off vehicles and machinery when not in use to reduce NOx and CO and PM emissions from machinery and vehicles used. Properly and regularly maintain machinery to minimize exhaust emissions, suspended particulates and fumes, in particular by ensuring that the engine, injection system and air cleaners are in good condition. 				
2.2. Increased levels of noise and vibration due to heavy vehicles and equipment movem	nent			
 Use well-maintained and inspected equipment with low vibration levels at the road areas adjacent to structures/buildings. Shut down equipment when not in use. Use operational noise mufflers. Limit all activities to normal daylight hours. Limit vehicle speed at critical locations. Provide advance notice to occupants if an activity involving high level impact noise is near buildings. 	600	 Site supervision/inspection and documentation to ensure compliance with the noise mitigation measures Indicators Number of complaints concerning noise 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)
2.3. Disruption of environment by borrow pits and quarries				
 Materials required for rehabilitation must be obtained from approved borrow areas and quarries and avoid ecologically sensitive zones Ensure measures present for air noise hazardous wastes and materials and solid waste, chemical leaks sections to protect the local biodiversity Avoid any vehicles or equipment movement into the Wadi or its surrounded areas. 	500	 Site supervision/inspection and documentation to ensure compliance Indicators: 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE

Prevention and Mitigation Measures	Estimated	Monitoring Parameters	Measures R	Responsibility	
rievention and wittigation wieasures	cost US\$	Worldoning Faraineters	Implementation	Monitoring	
 Remove the construction waste materials and avoid accumulation in the adjacent areas. If a contractor should seek to develop, operate and reinstate borrow pits and /or quarries, the contractor will adhere to the following: Inform RAP about developing and operating or reinstating borrow pits and/ or quarries for approval. Obtain all necessary permits for borrow pits and quarry operations. Locate borrow pits and quarries at least 500 m from watercourses, wadis or human habitations. Fence and secure quarry sites. Locate borrow pits on land that is authorized by communities and authorities not used for cultivation and is not wooded. The use of explosives is prohibited. Apply all the working conditions and labor requirements. 		 Presence of dead animals and plants near the project site Decrease in vegetation cover 		and TPM (Monthly)	
2.4. Leakage of vehicles lubricants and oil and chemicals in worksites					
 Avoid any leakage of oil in the worksite. Refueling vehicles and changing lubricants shall take place in allocated locations. Use impervious surfaces for refueling areas and other fluid transfer areas. Provision of spill prevention kits in the work area, carry out appropriate collection and cleaning of areas in case of leakage. Ensure chemicals are stored away from runoff zones and at areas well insulated from the soil and according to their material safety data sheets (MSDSs) 	500	 Visual observation and photographic documentation of equipment and soil leaks Indicators Presence of spills, soil color change 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)	
2.5. Soil/ groundwater/ runoff contamination					
 Pave in dry weather to prevent runoff of asphalt or concrete materials and avoid working during rainy seasons Cover storm drain inlets and cesspits during paving operations Conduct cleaning activities away from drainage structures 	800	 Inspection and photographic documentation. Photographic detection of changes in soil color. Presence of 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily)	

Prevention and Mitigation Measures	Estimated	Monitoring Parameters	Measures R	esponsibility
rievention and wittigation wieasures	cost US\$	Worthorning Farameters	Implementation	Monitoring
 Properly store all types of waste and hazardous chemicals if any in insulated areas to avoid spillage and away from runoff areas and soil Ensure mobile latrines if used are insulated from the ground and located away from runoff zones and groundwater zones as well as their cesspits and ensure they are properly covered with safe disposal of any sewage waste. Remove spills if any regularly Ensure concrete mixing if any is done at designated insulated areas away from soil, and water drains. Ensure hazardous chemicals and waste, if any, are stored, handled and disposed of according to their Material Safety Data Sheets. Construction waste should be stored and handled in designated areas away from the soil and water runoffs and groundwater zones. Ensure no clogged runoffs/drainage zones. 		waste stored near runoffs or at undesignated areas		UNOPS HSSE and TPM (Monthly)
2.6. Blockage of culverts, drainage ditches, stormwater catchment basin and channels				
 Clean and maintain drainage structures. Provide adequate drainage works. Ensure no waste is stored near drainage ditches and runoff zones and nearby wadis or close to the culverts. 	N.A	 Inspection and photographic documentation. Indicators Presence of waste stored near runoffs or at undesignated areas Drainage structures are visible clear and unclogged 	Contractor	
2.7. Waterlogging due to inefficient drainage for surface runoff in some locations or shall	llow water			
 Keeping trenches and excavations free of water. Dewatering surface water if needed using water vacuum mobile tankers. Provide adequate and efficient drainage for surface runoff. Ensure proper waste management and no waste to be stored in drainage areas 	N.A	 Site inspection and photographic documentation of cleaning activities Indicators 	Contractor	Supervision team (Daily) UNOPS HSSE

	Prevention and Mitigation Measures Estimated Monitoring Parameters	Measures R	esponsibility	
Prevention and Mitigation Measures	cost US\$	Womening Farameters	Implementation	Monitoring
Low aesthetic value of landscape such as accumulation of waste and debris in the re	ehabilitation	 Presence of materials and waste within culverts n site and damaged curbs and tiles. Im 	pacts on the wild	and TPM (Monthly) animals
 If necessary, replant damaged and dry trees with native non-invasive trees, available in local nurseries at subproject areas. Remove accumulated wastes and debris in the work site Reconstruct damaged curbs, and tiles. Rehabilitated sites must be cleaned/reinstated once the work is completed. No hunting activities are allowed by the contractor workers. Awareness raising activities on the protected wild animals to be provided to contractor workers Close supervision and reporting of the activities that could impact the animals exist in the area. 	N.A	 Site inspection and documentation of general landscape Indicators Presence of waste Number of complaints related to aesthetic value and waste mismanagement 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)
2.9. Production and disposal of rehabilitation work's debris and waste materials				
 Loading: Properly collect and load the debris, construction and domestic waste using well maintained equipment 'to suitable trucks with suitable load and emphasize safeguard requirements. Solid waste should be stored in designated zones and away from drains and runoff zones. Hazardous waste should be handled and stored and disposed of according to their MSDSs. Storage of hazardous waste should be at designated inaccessible sites and at well insulated zones, away from runoff/ drains The contractor should continuously remove the waste including rubbles and transfer it to the approved disposal site that is allocated by official authorities with agreement of neighboring communities and supervision engineer. Minimize littering of roads by ensuring that vehicles are licensed and loaded in such a 	1,000	 Site inspection and photographic Level of cleanliness in the site Documentation of the waste management and streams 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)

Dravantian and Mitigatian Massures	Prevention and Mitigation Measures Estimated Monitoring Parameters	Monitoring Darameters	Measures R	esponsibility	
Prevention and witigation wedsures	cost US\$	Worldoning Parameters	Implementation	Monitoring	
manner as to prevent falling off or spilling of construction materials, and by sheeting the sides and tops of all vehicles carrying sand, other materials or debris.					
 Properly transport the loaded waste and debris and hazardous waste (separately) by suitable trucks with emphasis to cover trucks with appropriate traps to avoid spillage during transportation. Direct the drivers to follow traffic rules and driving safety instructions i.e. licensed and well-trained drivers, following speed limits and using well-maintained trucks. 					
 Final Disposal: Properly dispose of solid waste at designated permitted sites allocated by the local authorities and cleaning funds; and attach the receipt of waste from the relevant landfill authorities to the site engineer. 					
3. Social Impact/issues3.1. Temporary disruption of traffic and congestion due to road closure and detours					
 Prepare a traffic plan during implementation in coordination with the responsible authorities and affected communities. Inform and coordinate with the local councils and traffic authority, public and roadside residents on the implementation schedule. Shorten implementation period to the extent possible. Road rehabilitation to be performed in sections to avoid full closure of the road. Control and manage traffic, by arranging detours and alternate bypass for traffic and roadside residences and businesses for each site using traffic cones, barriers, fences, or lights as appropriate in coordination with traffic officers and according to the work plan provided by the contractor (C-ESMP) and approved by UNOPS and RAP. The contractor should not start any rehabilitation activities before the installation of traffic safety and control safeguards. 	1,000	 Site inspection and documentation of community economic activities nearby site. Visual observation and photographic documentation of traffic management plan Indicators: Number of reported complaints 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)	

Prevention and Mitigation Measures	Estimated	Monitoring Parameters	Measures R	esponsibility
Fleverition and winigation wieasures	cost US\$	Wollitoring Farameters	Implementation	Monitoring
3.2. Temporary disruption of obtaining water and electricity during the relocation of war	ter pipes ar	nd electrical poles		
 Avoid all disruption of services by planning activities with the relevant utility service and communities Informing locals prior starting the displacement activities of water pipes and electrical poles Displaying signs alerting residents to the hazard of the construction zone. Where applicable, supplying residents with tanks of drinkable water. 	N.A	Site inspection and documentation	Contractor	Supervision team (Daily) UNOPS HSSE and TPM (Monthly)
3.3. Temporary disruption of the construction machinery during the rehabilitation work				
 Working at night is not allowed. Avoid exposure to noisy activities for a duration of more than 8 hours per day without hearing protection. The use of hearing protection is mandatory and should be enforced when exposed to any noisy work or equipment. Rotate staff to limit individual exposure to high levels. Install practical acoustical attenuation on construction equipment, such as mufflers. Use silenced air compressors and power generators Keep all machinery maintained, inspected and in good condition Install exhaust silencing equipment on bulldozers, compactors, cranes, dump trucks, excavators, graders, loaders, scrapers and shovels. Installation of signs in all areas where the sound pressure level exceeds 85 dB (A). Shut down equipment when not in use. Provide advance notice to occupants if an activity involving high level impact noise is in close proximity to buildings. 	700	 Visual observation and photographic documentation of safety measures. Meeting with communities Visual observation for installing warning signs, barricading of working areas with safety tapes and fencing/barricades to prevent unauthorized access of public and pedestrians to the working areas. Indicators: Number of recorded complaints Number of reported incidents 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)
3.4. Public safety during the rehabilitation phase				
 Install warning signs near and around the working sites. Erect removable barriers in high-risk areas. 	1,000	 Visual observation and photographic documentation of safety measures. 	Contractor	Contractor HSE officer (Daily),

Prevention and Mitigation Measures	Estimated	Monitoring Parameters	Measures R	esponsibility
Prevention and Willigation Weasures	cost US\$		Implementation	Monitoring
 Provide and maintain required barricades, guards, fencing, shoring, temporary roadways, footpaths, lighting and traffic flagging. Protect workers and the public by covering openings and by protective fencing, barricades and guardrails. Protect proper shielding scaffolds. 		Meeting with communitiesIndicators:Number of complaintsNumber of incidents		RAP supervision team (Daily) UNOPS HSSE and TPM (Monthly)
3.5. Complaints				
 A complaints register will be kept on site and this will feed into the GM. Project GM channels are posted at the subproject areas. Contractor shall develop and maintain GM for workers in which the workers shall be fully aware of the mechanism Community members shall be aware of the existence of the GRM (it shall advertised prior to works) 	N.A	Number and type of grievance and date submitted, action(s) taken and date(s), resolution (if any) and date, and follow-up yet to be taken Number of GM awareness sessions for workers	Contractor UNOPS, and RAP	Supervision team (Daily) UNOPS ESSO, GM focal point and TPM (Monthly)
3.6. Influx of non-local manual labor and risk of GBV and SEA				
- Ensure that local laborers are hired within the subproject to provide opportunities for local communities and to avoid labor influx to the extent possible.	N.A	 Labor registers Meeting with communities and workers 	Contractor, and RAP	Supervision team (Daily) UNOPS HSSE / Gender Officer and TPM (Monthly)
3.7. Sexual harassment, abuse, gender-based violence, and discrimination				
 Mandatory and repeated training and awareness-raising for the workforce on refraining from unacceptable conduct toward local community members, specifically women. Informing workers about national laws that make sexual harassment and gender-based violence a punishable offense that is prosecuted. 	N.A	 Documentation of contractors. Meeting with communities Indicators Number of reported and registered cases of the SEA/SH 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily)

Ducyantian and Mitigation Massauras	Estimated	Monitoring Dovernmetors	Measures R	esponsibility
Prevention and Mitigation Measures	cost US\$	Monitoring Parameters	Implementation	Monitoring
 Introducing a Worker Code of Conduct as part of the employment contract, and including sanctions for non-compliance (e.g., termination). Set up a solid GM and code of conduct and contractual provisions to prevent the act of GBV and SEA. Information about the UNOPs GBV/SH complaint mechanism will be widely disseminated with consideration for the cultural aspects Adopting a policy to cooperate with law enforcement agencies in investigating complaints about gender-based violence. Contractor and workers to sign the code of conduct, and ensure workers comply and adhere to the code of conduct. Conduct regular awareness sessions on site in GBV prevention. GM system shall be put in place to handle any issue on SEA/SH and GBV. 		through project GM. - Number of reported cases of contractors' noncompliance to SEA/SH obligation on work sites.		UNOPS HSSE / Gender Officer and TPM (Monthly)
3.8. Child Labor and forced labor				
 All workers must be 18 years or older. Verifying age of workers by checking IDs and official documents. A labor log including names, ages and other details will be kept, and all workers will be registered. RAP / UNOPS will continuously monitor this issue and ensure that workers are properly paid and adequate working conditions are maintained. Ensure no child labor and forced labor is used in any of the project activities including by the Contractor, sub-contractors, in quarries and by suppliers. 	N.A	 Documentation check. Meeting with laborers Indicators Number of GM Reports Number and type of workers Number of workers below the age of 18 based on ID checks 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)
3.9. Discrimination in employment				
 Comply with the relevant provisions of the Yemeni Labor Code. The employment of all project workers will be based on the principles of non-discrimination and equal opportunity and No discrimination is allowed with respect to any aspects of the employment relationship, 	N.A	 Inspection and auditing for workers' documents. Meeting with workers Indicators GM reports regarding labor 	UNOPS, RAP, Contractors and workers	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE

Draventien and Mitigation Measures	Prevention and Mitigation Measures Estimated Monitoring Parame	Monitoring Parameters	Measures R	esponsibility
Prevention and witigation weasures	cost US\$	Worldoning Farameters	Implementation	Monitoring
including recruitment, compensation, working conditions and terms of employment, access to training, promotion, or termination of employment.		discrimination, rights and issues		and TPM (Monthly)
3.10. Poor coordination, planning of work that lead to the damage of underground struct	ures (electr	ric cables, telephone lines, water distri	bution networks)	
 Coordinate with local councils, community committee, and other authorities. Inspection of site to clearly identify any electrical hazards or other utility lines damages in the working areas. Use the designs and plans of the underground networks in coordination with authorities to identify the location of the underground pipes and cables. Repair any damage caused by the Contractor's activities, in coordination with concerned authorities. The contractor should coordinate with the Traffic Department to prepare a Traffic Management Plan for traffic detours to ensure traffic transfers are smoothly managed for each site / work area with a clear plan and an engineering scheme. Safeguard all existing structures, works, pipes, cables, sewers, or other services or installations from harm, disturbance or deterioration during rehabilitation activities. Backfill service trenches as soon as possible after the service has been maintained and if possible, on the same working day. 	N.A	 Regular inspection. Reinstatement activities status Indicators Number of complaints or grievances Number of incidents or damages 	Contractor	Contractor HSE officer (Daily), RAP Supervision team (Daily) UNOPS HSSE and TPM (Monthly)
3.11. Operation and maintenance of the rehabilitated road, lack of maintenance				
 Maintenance is required to ensure the sustainability of this project. Ensure no falling trees or vegetation is present on the road through regular vegetation maintenance (present next to the road) Inform the locals on maintenance periods and ensure that alternative road access is provided during maintenance work and locals also informed about alternate routes/access available. Ensure same mitigation measures are applied during maintenance works 	N.A	 Visual inspections on roads, culverts, Indicator: Presence of failure in roads, and number of times they occurred 	Local authorities	Community Committee

4.4. Implementation budget

The contractors shall cover the cost of mitigation measures including the training of workers, PPE provision and other related costs within the overall subproject cost. Items requiring additional cost will be covered by UNOPS as indicated in the table below, number 1 to 3, with the estimated budget:

Table 5 Estimated budget

Item	Cost US\$
Travel of UNOPS team to the subproject areas for monitoring and supervisory purposes.	3,000
Development and deployment of awareness materials on the GM channels and OHS requirements.	500
Consultation and communication meetings with the various stakeholder groups at the subproject areas.	2,000
4. Mitigation measures implementation	10,000
Total	15,500

4.5. ESMP reporting

The RAP ESSO will report to UNOPS on a monthly basis on the implementation of the ESMP and UNOPS will report the ESMP implementation to the WB. There will also be additional reports based on the situation and updates. The RAP Supervision Engineer assigned as a worksite resident engineer is in charge of all construction activities. The RAP ESSO shall make monthly visits to each subproject to ensure that all mitigation measures are in place. UNOPS ESSO as well as the assigned engineers shall perform regular visits to the subproject sites to ensure compliance where needed.

As guided by this ESMP as well as annex 3 requirements, the contractor shall monitor, keep records and report on the environmental and social issues: safety, environmental incidents and near misses, major works, ESHS requirements, ESHS inspections and audits: workers, training on ESHS issues, footprint management, stakeholder engagement, details of any security risks, worker grievances, stakeholder grievances, major changes to contractors environmental and social practices, deficiency and performance management. The following table provides an indicative reporting plan.

Table 6 Reporting plan

What	How	Who	When
Compliance level to the ESMP including environmental and social issues, OHS, GM, etc.	Based on monitoring and inspections, log, the engineer reports, GM log	11A1 2330	Monthly from RAP to UNOPS and quarterly from UNOPS to WB.
Compliance level to the ESMP and environmental and social issues: safety, environmental incidents and near misses, major works, ESHS requirements, ESHS inspections and audits: workers, training on ESHS issues, footprint management, stakeholder engagement, details of any security risks, worker grievances, stakeholder grievances, major changes to	monitoring, inspection, records,	Supervisio n	Monthly to RAP and based on cases

What	How	Who	When
contractors environmental and social practices, deficiency and performance management.			
Environmental and social issues: safety, environmental incidents and near misses, major works, ESHS requirements, ESHS inspections and audits: workers, training on ESHS issues, footprint management, stakeholder engagement, details of any security risks, worker grievances, stakeholder grievances, major changes to contractors environmental and social practices, deficiency and performance management. In case of GBV, major environmental accident of serious accidents with workers, the contractor will immediately notify the UNOPS and the supervision team	Based on monitoring, inspection, records, logs.	I	Monthly to RAP and UNOPS and based on cases

5. Stakeholder engagement and information disclosure

Stakeholder engagement activities at project level took place regularly by UNOPS and RAP with the various stakeholders at central and local level including central authorities, governor, district managers, local council members. The project documents including ESCP, ESMF, LMP, SEP and RF have been communicated to the relevant stakeholders and disclosed in Arabic and English on the official UNOPS website.

The engagement process has taken the form of semi-structured and direct interviews with local communities and group discussions with stakeholders including, community leaders, beneficiaries, households, land and business owners in the different subproject areas. Further details on the project level engagement process are available in the latest YELCP SEP. Meanwhile, consultation sessions on the proposed intervention were conducted within the subproject areas.

The participants in the subproject consultation are included below. Questionnaires on the expected benefits and associated negative impacts during the rehabilitation were distributed as per annex 4 content and examples of the records are available in annex 5. Further consultations planned to be implemented will include additional beneficiaries, affected parties and other stakeholders with focus on the participation of women.

Table 7 consultation participants summary

Data	Location	Doubleinante Dataile	Total Participants	
Date	Location	Participants Details	Men	Women
23 May 2022	District center	1 local official and 12 from the residents around targeted road	9	4
2 Nov 2022	District center	1 local official and 8 from the residents around targeted road	8	1
8 Feb 2023	Road Track and Adjacent Areas	Visit of the UNOPS RAP Management team: 10 local officials, 5 Community leaders and 15 Road users/ residents	30	-
Total			47	5

The consultations with men and women covered several issues and aspects including:

- Providing local communities with the subproject activities and its timetable.
- Raising the awareness about potential risks associated with the contractors work such as safety, health, environmental, and social risks and required control measures.
- Discussion of positive impacts such as improved transportation, easier access to services, and enhanced road safety.
- Information provided on the potential negative impacts such as disruption of traffic and safety of workers and proposed mitigation measures and how to avoid and mitigate them.
- Information on the coordination requirements with the supervision team and contractors to manage the traffic.
- Provision of the YELCP GM details that can be used to raise opinions, concerns and inquiries regarding the subproject without fear with emphasis on confidentiality.

In general, the consulted stakeholders support the subproject as it is the key factor for their development. Moreover, the interviewees stated that the subproject will improve access to local services, schools and healthcare and other local services. Emphasis was made on the importance of avoiding or reducing the time of complete closure of the road and suggestions made to implement section by section to allow essential movements of locals. Stakeholders emphasized on the importance of the close follow up for the contractor work to ensure work completion in due time. Some of the feedback received during the consultation process:

- The subproject is considered as a priority for all the residents in the district as it will ease the transportation of goods and agricultural products for all citizens across the road.
- Important to have good maintenance of the road by the concerned authorities after rehabilitation. Project team clarifies that such requirement will be managed by the local authorities as well as Road Maintenance Fund
- The rehabilitation will ease the movement of vehicles and the traveling time between the district and surrounding cities will be significantly reduced.
- The economic activities will be enhanced across the sub-project areas.
- The rehabilitation will ease the transportation of goods and food products to the citizens around the road.
- The transportation costs will be significantly reduced which will be reflected in the reduction of food products and other materials prices.

Consultations will continue during civil work implementation with the local communities, affected parties, community committee, local authorities as well as workers to assess the overall satisfaction on implementation of mitigation measures and accommodation of all the concerns. Furthermore, the contractor will be required to undertake a process of stakeholder engagement with the various stakeholder groups in the subproject areas. The contractor shall maintain good relations with local communities throughout the subproject and will give the communities prior notice of subproject plans and schedules as they might be affected or might raise concerns.

6. Grievance mechanism

UNOPS has established a GM system for the YELCP to enable stakeholders to communicate their concerns regarding the planned activities and what improvement is needed in the scope. The GM details the procedures that communities and individuals, who believe they are adversely affected by the project or a specific subproject, can use to submit their complaints, as well as the procedures used by UNOPS and RAP to systematically register, track, investigate and promptly resolve complaints. Scans of hard copies in Arabic of the GM channels as available in annex 4. These were introduced to interviewees during the consultation sessions, and they have been informed about the focus on confidentiality. Anonymous complaints will be treated like any other complaint and may be delivered through the various GM channels.

Rehabilitation of Al-Azariq – Al-Dhalea Rural Road ESMP

Multiple access points to the GM system are provided for beneficiaries to voice their concerns. These access points will be advertised in Arabic at subproject level and put on the sign boards on each subproject site, and include GM contact information detailed below:

Toll Free Number 8000190

Landline 01 504914 and 01 504915

SMS and WhatsApp 739888388

Email grm-yemen@unops.org

The UNOPS GM focal point will register complaints; Inform the complainant if the complaint is accepted or rejected within 3 days of receiving the complaint. UNOPS ESSO, GM focal point shall work with engineers, local partners, and contractors to resolve the complaint within 21 days of its submission. The grievance that could be raised include the following categories:

- Access to project benefits (e.g., no or insufficient jobs created for local communities).
- Non-equal distribution of project services among target beneficiaries.
- Disputes (e.g., matters raised by/related to beneficiaries.
- Disturbance (e.g., noise, traffic, road access and public safety, encroachment of farmland).
- GBV, SEA/SH grievances that will follow a different protocol as guided by the YELCP GBV action plan.
- Workers grievances if not satisfactory resolved at the contractor level GM, as stated in the YELCP LMP.

Annex 1 Subproject environmental and social screening form

Quarties	Answer		ESS relevance	Due diligence/	
Question	Yes	No	L33 Televance	Actions	
Does the subproject involve civil works including new construction, expansion, upgrading or rehabilitation of existing infrastructure?	х		ESS1	ESMP, SEP	
Does the subproject involve land acquisition and/or restrictions on land use? ¹⁴		Х	ESS5	SEP/RP	
Is the subproject associated with any external waste management facilities such as a sanitary landfill, incinerator, or wastewater treatment plant?		х	ESS3	ESMP, SEP	
Does the subproject have an adequate system in place (capacity, processes and management) to address waste?	х		ESS1, ESS3	ESMP	
Does the subproject involve the recruitment of workers including direct, contracted, primary supply, and/or community workers?	х		ESS2	LMP, SEP	
Does the subproject have appropriate OHS procedures in place, and an adequate supply of PPE (where necessary)?	х		ESS2	LMP	
Does the subproject have i) a project GM available to all stakeholders and ii) a GM to which all workers have access? Are both GMs designed to respond quickly and effectively?	х		ESS10, ESS2	SEP, LMP	
Does the subproject involve use of security or military personnel during construction and/or operation of healthcare facilities and related activities?		Х	ESS2, ESS4	ESMP, LMP, SMP	
Does the subproject establish and implement an appropriate quality management system to anticipate and minimize risks and impact that services may have on community health and safety?	х		ESS2, ESS4	ESMP, SMP, LMP GBV Action Plan	
Does the subproject apply the concept of universal access where technically and financially feasible?	Х		ESS4	ESMP, SEP	
Is the subproject located within or in the vicinity of any ecologically sensitive areas?		Х	ESS6	ESMP, SEP	
Is the subproject located within or in the vicinity of any known cultural heritage sites?		Х	ESS8	ESMP, SEP	
Does the project area present potential Gender-Based Violence (GBV) and Sexual Exploitation and Abuse (SEA) risk?	х		ESS1, ESS4	ESMP, SEP, GBV Action Plan	

Conclusion

Risk level of the subproject estimated to be Moderate and Subproject ESMP preparation is required

¹⁴ A due diligence was conducted to assess whether any of the subproject road sections led to ESS 5 impacts and it concluded that there is no impact. Due diligence report is available in annex 6 of this ESMP.

Annex 2 Subproject photos



Annex 3 Environmental and social requirements for contractors

Contractors shall meet the following Environmental, Health, Safety and Social requirements – thereafter called ESHS requirements¹⁵.

The ESHS requirements include the following sections

- 1. Contractor Environmental and Social Management Plan (C-ESMP)
- 2. ESHS Training
- 3. Construction Site Management
- 4. Occupational Health and Safety
- 5. Road safety and Traffic Safety
- 6. Emergency Preparedness and Response
- 7. Stakeholder Engagement
- 8. Labor Management including Code of Conduct
- 9. Contractor Environmental and Social Reporting

1. General Provision

Contractor Environmental and Social Management Plan (C-ESMP)

- Contractor Environmental and Social Management Plan (C-ESMP) shall be prepared and submitted to RAP/ UNOPS for approval
- Include in the C-ESMP a detailed explanation of how the contractor's performance will meet the ESHS requirements
- Ensure that sufficient funds are budgeted to meet the ESHS requirements, and that sufficient capacity is in place to oversee, monitor and report on C-ESMP performance.
- Put in place controls and procedures to manage their ESHS performance.
- Get prior written approval from RAP Engineers before starting rehabilitation activities.

2. ESHS Training

- Determine ESHS training needs in collaboration with RAP/ UNOPS
- Maintain records of all ESHS training, orientation, and induction.
- Ensure, through appropriate contract specifications and monitoring that service providers, as well as contracted and subcontracted labor, are trained adequately before assignments begin.
- Demonstrate that its employees are competent to carry out their activities and duties safely. For this purpose, the Contractor shall issue a Competence Certificate for every person working on site (relative to trade and aspect of work assignment) that specifies which tasks can be undertaken by which key personnel.
- Training should include occupational health and safety measures, GBV HS and social health and safety measures, Environmental health and safety measures, waste management and hazardous materials management.

Orientation Training

- Provide ESHS orientation training to all employees, including management, supervisors, and workers, as well as to subcontractors, so that they are apprised of the basic site rules of work at/on the site and of personal protection and preventing injury to fellow employees.
- Training should consist of basic hazard awareness, site-specific hazards, safe work practices, and emergency procedures for fire, evacuation, and natural disaster, as appropriate. Any site-specific hazard or color coding in use should be thoroughly reviewed as part of orientation training.

Visitor Orientation

- Establish an orientation program for visitors, including vendors that could access areas where hazardous conditions or substances may be present.
- Visitors shall not enter hazard areas unescorted.

¹⁵ The ESHS requirements build on the General EHS Guidelines of the World Bank Group, but also take into account other World Bank guidelines, and good practice notes

• Ensure that visitors are always accompanied by an authorized member of the contractor, or a representative of UNOPS or RAP, who has successfully fulfilled the ESHS orientation training, and who is familiar with the project site construction hazards, layout, and restricted working areas.

New Task Employee and Contractor Training

- Ensure that all workers and subcontractors, prior to commencement of new assignments, have received adequate training and information enabling them to understand work hazards and to protect their health from hazardous ambient factors that may be present. The training should adequately cover the step-by-step process that is needed for Project activities to be undertaken safely, with minimum harm to the environment, including:
 - o Knowledge of materials, equipment, and tools
 - o Known hazards in the operations and how they are controlled
 - o Potential risks to health
 - Precautions to prevent exposure
 - Hygiene requirements
 - Wearing and use of protective equipment and clothing
 - Appropriate response to operation extremes, incidents and accidents

3. Construction Site Management

Vegetation

- Prevent any unnecessary destruction, scarring, or defacing of the natural surroundings in the vicinity of the construction site
- Protect all trees and vegetation from damage by construction operations and equipment, except where clearing is required for permanent works, approved construction roads, or excavation
- Revegetate damaged areas on completion of the Works, and for areas that cannot be re vegetated, scarifying the work area to a condition that will facilitate natural re vegetation, provide for proper drainage, and prevent erosion
- Usage of local species for replanting and species that are not listed as a noxious weed
- Repair, replant, reseed or otherwise correct, as directed by UNOPS or RAP, and at the Contractor's own expense, all unnecessary destruction, scarring, damage, or defacing of the landscape resulting from the Contractors operations
- Transport labor and equipment in a manner to avoid as much as possible damage to grazing land, crops, and property

Protection of the Existing Installations

- Safeguard all existing buildings, structures, works, pipes, cables, sewers, or other services or installations from harm, disturbance or deterioration during construction activities
- Coordinate with local authorities to identify existing infrastructure that might not be visible
- Repair any damage caused by the Contractor's activities, in coordination with concerned authorities.
- Take all precautions to prevent or reduce any disturbance or inconvenience to the owners, tenants or occupiers of properties to the construction activities, and more generally to the public
- Maintain safe access to public and private properties that might be affected by construction activities. If necessary, provide acceptable alternative means of passage or access to the satisfaction of the persons affected.
- Avoid working during night hours

Waste from Construction Activities

- Collect and properly store and manage all solid wastes and hazardous wastes (separated hazardous wastes from solid wastes) resulting from the construction activities, including construction debris and spoils, to prevent the contamination of soil and groundwater. In case chemicals are present they should be stored and disposed according to their Material Safety Data Sheets (MSDSs)
- Remove unneeded excavation material from construction sites as soon as possible
- Wadi shall never be used as a dumping site for rubbles and waste by the contractor and workers.

- Agree with relevant municipalities about construction waste disposal
- Waste shall be disposed of in approved waste areas that is determined in coordination with RAP.
- Minimize littering of roads by ensuring that vehicles are licensed and loaded in such a manner as to prevent falling off or spilling of construction materials, and by sheeting the sides and tops of all vehicles carrying mud, sand, other materials or debris
- Transfer construction waste to assigned places in the selected waste disposal sites with documented confirmation.
- Properly dispose of solid waste and debris and hazardous waste (separately) at designated permitted sites, waste disposal sites allocated by the local authorities, and obtain a receipt of waste from the authorized landfill authority.

Air Quality

The most common pollutant involved in fugitive emissions is dust or particulate matter that is released during civil work, transport and open storage of solid materials, and from exposed soil surfaces, including unpaved roads. Accordingly, the Contractor shall:

- Use dust control methods, such as covers, water suppression, or increased moisture content for open materials storage piles, or controls, including air extraction and treatment through a baghouse or cyclone for material handling sources, such as conveyors and bins;
- Use water suppression for control of loose materials on paved or unpaved road surfaces. Oil and oil by-products are not a recommended method to control road dust.
- Use wheel washes at quarries, ready-mix plants, construction sites, and other facilities to prevent track-out of mud, dust and dirt on to public roads.
- Regularly clean road surfaces within the construction sites to remove accumulated fine material, and regularly clean transportation vehicles.
- Cover open bodied trucks handling sand, gravel or earth.
- Minimize smoke from diesel engines by regular and proper maintenance, in particular by ensuring that the engine, injection system and air cleaners are in good condition.

Hazardous and Toxic Materials

Toxic and deleterious wastes resulting from the Project Company's activities require special attention in order to forestall their introduction into the natural environment which could result in harm to people, aquatic life or natural growth of the area. The Contractor shall take precautions relative to the conditions specified herein.

- Train workers regarding the handling of hazardous materials
- Store hazardous materials as per the statutory provisions of the Manufactures, Storage and Import of Hazardous Chemicals Rules (1989), under the Environment (Protection) Act, 1986.
- Provide adequate secondary containment for fuel storage tanks and for the temporary storage of other fluids such as lubricating oils and hydraulic fluids,
- Use impervious surfaces for refueling areas and other fluid transfer areas
- Train workers on the correct handling of fuels and chemicals and the response to spills
- Provide portable spill containment and cleanup equipment on site and training in the equipment deployment
- Deposit or discharge toxic liquids, chemicals, fuels, lubricants and bitumen into containers for salvage or subsequent removal to off-site locations.
- Treat hazardous waste separately from other waste
- Avoid the storage or handling of toxic liquid adjacent to or draining into drainage facilities.
- Keep absorbent materials or compounds on Site in sufficient quantities corresponding to the extent of possible spills.

Borrow Pits and Quarries

Materials required for site fill, backfill or the construction of permanent works that are not available from the surface will be obtained from borrow areas and quarries that the Contractor will identify, subject to approval by the RAP following the applicable regulations.

The Contractor shall adhere to the following standards when sitting, developing, operating, and reinstating borrow pits and quarries:

- Obtain all necessary permits for borrow pits and quarry operations.
- Locate quarry sites as far away from settlements as possible. Quarry operations will produce noise and dust that will impact on nearby inhabitants even if controls are imposed.
- Fence and secure quarry sites. Steep quarry faces are a hazard to people and livestock.
- Locate borrow pits and quarries at least 500 m from watercourses or human habitations.
- Avoid all use of explosives for stones quarrying
- Locate borrow pits on land that is not used for cultivation and is not wooded.
- Avoid areas of local historical or cultural interest and locate pits more than 25 m of grave sites.
- Hide, to the extent possible, pits from the road. Quarries and borrow pits should be designed to minimize visible scarring of the landscape.
- Develop and implement plan to reinstate borrow pits and quarry sites as closely as possible to their original state

Area Signage

- Appropriately mark hazardous areas and install warning signs where needed
- Ensure that signage is in accordance with international standards and is well known to, and easily understood by workers, visitors and the general public as appropriate.
- Demarcate work sites with safety tape, fencing or barricades, as appropriate, to prevent unauthorized access to the construction sites
- Safeguard public safety by covering holes and by installing guardrails along temporary pathways.

Chance Find Procedures

Actions to be taken if previously unknown cultural heritage is encountered, including:

- Train construction crews and supervisors to spot potential archaeological finds
- Keep records and ensure expert verification
- Provide chain of custody instructions for movable finds
- notify the Department of Archaeology at the Ministry of Culture or a local university, for quick assessment and action
- Define clear criteria for potential temporary work stoppages required for rapid disposition of issues related to the finds.
- Avoid indirect damage to existing cultural heritage, such as affecting masonry through vibration

Decommissioning of Worksites and Plant

- Clear construction sites of any equipment or waste, and ensuring that the sites are free from contamination.
- Dispose of or recycle any equipment or waste in an appropriate and environmentally sound manner.
- Hand construction sites over to the original owners, taking into account his/her wishes and national legislation.

4. Health and Safety

Severe Weather and Facility Shutdown

- Design and build workplace structures to withstand the expected elements for the region and designate an area designated for safe refuge, if appropriate.
- Develop Standard Operating Procedures (SOPs) for project or process shut-down, including an evacuation plan.

Lavatories and Showers

- Provide adequate lavatory facilities (toilets and washing areas) for the number of people expected to work at the construction sites or for indicating whether the toilet facility is "In Use" or "Vacant".
- Provide toilet facilities with adequate supplies running water, soap, and drying substances.
- Where workers may be exposed to poisonous substances by ingestion and skin contamination, provide facilities for showering and changing into and out of street and work clothes.

Potable Water Supply

• Provide adequate supplies of potable drinking water from a fountain with an upward jet or with a sanitary means of collecting the water for the purposes of drinking

• Ensure that water supplied to areas of food preparation or for the purpose of personal hygiene (washing or bathing) meets drinking water quality standards

Clean Eating Area

 Where there is potential for exposure to substances poisonous by ingestion, make suitable arrangements to provide clean eating areas where workers are not exposed to the hazardous or noxious substances.

Personal Protective Equipment (PPE)

- Identify and provide at no cost appropriate PPE to workers, the workers of subcontractors, as well as to visitors, which gives adequate protection without incurring unnecessary inconvenience to the individual
- Ensure that the use of PPE is compulsory.
- Provide sufficient training in the use, storage and maintenance of PPE to its workers and workers of its subcontractors.
- Properly maintain PPE, including cleaning when dirty and replacement when damaged or worn.
- Determine requirements for standard and/or task-specific PPE based on Job specific Safety Analysis.
- Consider the use of PPE as a last resort when it comes to hazard control and prevention, and always refer to the hierarchy of hazard controls when planning a safety process.

Noise

Institute appropriate measures to reduce the workers exposure to construction noise, including:

- Avoid exposure to noisy activities for a duration of more than 8 hours per day without hearing protection.
- The use of hearing protection is mandatory and should be enforced when exposed to any noisy work or equipment
- Rotate staff to limit individual exposure to high levels.
- Install practical acoustical attenuation on construction equipment, such as mufflers.
- Use silenced air compressors and power generators
- Keep all machinery in good condition
- Install exhaust silencing equipment on bulldozers, compactors, crane, dump trucks, excavators, graders, loaders, scrapers and shovels.
- Post signs in all areas where the sound pressure level exceeds 85 dB(A).
- Shut down equipment when not directly in use
- Provide advance notice to occupants if an activity involving high level impact noise is in close proximity to buildings.

Slip, trip and Falls

Slips and falls on the same elevation associated with poor housekeeping, such as excessive waste debris, loose construction materials, liquid spills, and uncontrolled use of electrical cords and ropes on the ground, are also among the most frequent causes of lost time accidents at construction and decommissioning sites. To prevent slips and falls from, or on, the same elevation, the Contractor shall

- Implementing good house-keeping practices, such as the sorting and placing loose construction materials or demolition debris in established areas away from footpaths
- Clean up excessive waste debris and liquid spills regularly
- Locate electrical cords and ropes in common areas and marked corridors
- Ensure that workers use slip retardant footwear

Working at Heights

The contractor shall implement fall prevention and protection measures whenever a worker is exposed to the hazard of falling more than two meters, or through an opening in a work surface. The Contractor shall:

- Install guardrails with mid-rails and toe boards at the edge of any fall hazard area
- Train workers on the proper use of ladders and scaffolds
- Install fall prevention devices, including safety belt and lanyard travel limiting devices to prevent access to fall hazard area, or fall protection devices such as full body harnesses used in

conjunction with shock absorbing lanyards or self retracting inertial fall arrest devices attached to fixed anchor point or horizontal life-lines

- Train workers in the use, serviceability, and integrity of the necessary PPE
- Include rescue and recovery plans, and equipment to respond to workers after an arrested fall

Struck By Objects

The Contractor shall:

- Use a designated and restricted waste drop or discharge zones, and/or a chute for safe movement of wastes from upper to lower levels
- Conduct sawing, cutting, grinding, sanding, chipping or chiseling with proper guards and anchoring as applicable
- Maintain clear traffic ways to avoid driving of heavy equipment over loose scrap
- Use temporary fall protection measures in scaffolds and out edges of elevated work surfaces, such as handrails and toe boards to prevent materials from being dislodged
- As necessary, require workers to wear appropriate PPE, such as safety glasses with side shields, face shields, hard hats, and safety shoes

First Aid and Accidents

- Ensure that qualified first-aid by qualified personnel is always available. Appropriately equipped first-aid stations should be easily accessible throughout the place of work.
- Provide workers with rescue and first-aid duties with dedicated training so as not to inadvertently aggravate exposures and health hazards to themselves or their co- workers. Training would include the risks of becoming infected with blood-borne pathogens through contact with bodily fluids and tissue.
- Provide eye-wash stations and/or emergency showers close to all workstations where immediate flushing with water is the recommended first-aid response.
- Provide dedicated and appropriately equipped first-aid room(s) where the scale of work or the type of activity being carried out so requires.
- Equip first aid stations and rooms with gloves, gowns, and masks for protection against direct contact with blood and other body fluids.
- Make widely available written emergency procedures for dealing with cases of trauma or serious illness, including procedures for transferring patient care to an appropriate medical facility.
- Immediately report all accidental occurrences with serious accident potential such as major equipment failures, contact with high-voltage lines, exposure to hazardous materials, slides, or cave-ins to UNOPS and RAP.
- Immediately investigate any serious or fatal injury or disease caused by the progress of work by the Contractor, and submit a comprehensive report to UNOPS and RAP.

Communicable Diseases

The Contractor shall implement a combination of behavioral and environmental modifications to mitigate communicable diseases:

- Ensure ready access to medical treatment and appropriate care.
- Promote collaboration with local authorities to enhance access of workers' to public health services and ensure the immunization of workers against common and locally prevalent diseases.
- Provide basic education on the conditions that allow the spread of other diseases such as COVID-19, Lassa Fever, Cholera and Ebola. The training should cover sanitary hygiene education.

COVID-19

In the context of the COVID-19 pandemic, Contractors shall develop and implement measures to prevent or minimize an outbreak of COVID-19, and develop procedures indicating what should be done if a worker gets sick. The measures shall include:

- Assessing the characteristics of the workforce, including those with underlying health issues or who may be otherwise at risk
- Confirming that workers are fit for work, including temperature testing and refusing entry to sick workers
- Considering ways to minimize entry/exit to site or the workplace, and limiting contact between

workers and the community/general public

- Training workers on hygiene and other preventative measures, and implementing a communication strategy for regular updates on COVID-19 related issues and the status of affected workers
- Treating workers who are or should be self-isolating and/or are displaying symptoms
- Assessing risks to continuity of supplies of medicine, water, fuel, food and PPE, taking into account international, national and local supply chains
- Reducing, storing and disposing of medical waste
- Adjusting work practices, to reduce the number of workers and increase social distancing
- Expanding health facilities on-site compared to usual levels, developing relationships with local health care facilities and organize for the treatment of sick workers
- Building worker accommodations further apart, or having one worker accommodation in a more isolated area, which may be easily converted to quarantine and treatment facilities, if needed
- Establishing a procedure to follow if a worker becomes sick
- Implementing a communication strategy with the community, community leaders and local government in relation to COVID-19 issues on the site.

5. Road safety and Traffic Safety

The Contractor shall ensure traffic safety by all project personnel during displacement to and from the workplace, and during the operation of project equipment. The Contractor shall adopt best transport safety practices across all aspects of project operations with the goal of preventing traffic accidents and minimizing injuries suffered by project personnel and the public, including:

- Emphasize safety aspects among drivers
- Improve driving skills and requiring licensing of drivers
- Institute defensive driving training for all drivers prior to starting their job
- Adopt limits for trip duration and arranging driver rosters to avoid overtiredness
- Avoid dangerous routes and times of day to reduce the risk of accidents
- Require that drivers and co-passengers wear seatbelts, and duly sanction defaulters.
- Regularly maintain vehicles and use manufacturer approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure.

Where the project may contribute to significant changes in traffic along existing roads the Contractor shall:

- Commence activities that affect public motorways and highways, only after all traffic safety measures necessitated by the activities are fully operational.
- Arrange diversions for providing alternative routes for transport and/or pedestrians
- Minimize pedestrian interaction with construction vehicles, particularly at crossing points to schools, markets, and any animal crossing points of significance, through appropriate signage, engineered footpaths or traffic slowing devices.
- Organize meaningful road accident awareness events at all roadside schools and communities
 within 150 meters of the road centerline, covering safe road crossing, road accident hazards from
 weather conditions and vehicle roadworthiness, overloading and driver alertness, dangers posed
 by parked and broken-down vehicles, etc.
- Collaborate with local communities and responsible authorities to improve signage, visibility and overall safety of roads, particularly along stretches located near schools or other locations where children may be present.
- Collaborate with local communities on education about traffic and pedestrian safety (e.g. school education campaigns).
- Coordinate with emergency responders to ensure that appropriate first aid is provided to all affected persons in the event of accidents.
- Use locally sourced materials, whenever possible, to minimize transport distances, and locate associated facilities close to project sites.
- Employ safe traffic control measures, including road signs, traffic cones, removable barriers, and flag persons to warn of dangerous conditions.

6. Emergencies

Establish and maintain an emergency preparedness and response system, in collaboration with appropriate and relevant third parties including to cover: (i) the contingencies that could affect personnel and facilities of the project to be financed; (ii) the need to protect the health and safety of project workers; (iii) the need to protect the health and safety of the Affected Communities. The emergency preparedness and response system shall include:

- Identification of the emergency scenarios
- Specific emergency response procedures
- Training of emergency response teams
- Emergency contacts and communication systems/protocols (including communication with Affected Communities when necessary)
- Procedures for interaction with government authorities (emergency, health, environmental authorities)
- Permanently stationed emergency equipment and facilities (e.g., first aid stations, firefighting equipment, spill response equipment, personal protection equipment for the emergency response teams)
- Protocols for the use of the emergency equipment and facilities
- Clear identification of evacuation routes and muster points
- Emergency drills and their periodicity based on assigned emergency levels or tiers
- Decontamination procedures and means to proceed with urgent remedial measures to contain, limit and reduce pollution within the physical boundaries of the project property and assets to the extent possible.

7. Stakeholder Engagement

The contractor will be required to undertake a process of stakeholder engagement with representative persons and communities directly affected by the activities it undertakes. The contractor shall also maintain throughout the Project good relations with local communities and will give these communities prior notice of plans and schedules as they might affect local people.

8. Labor Force Management

The Contractor shall

- Follow the LMP requirements
- Provide opportunities for workers to get adequate rest period and regularly return to their families
- Pay adequate salaries following the applicable market levels for workers Where applicable, pay salaries into workers' bank accounts rather than in cash where possible and applicable
- Get an appropriate mix of locally and non- locally procured goods to allow local project benefits while reducing risk of crowding out of and price hikes for local consumers
- Establish substance abuse prevention and management programs
- Hire workers through transparent process, and avoid hiring "at the gate" to discourage spontaneous influx of job seekers
- Identify authorized water supply source and prohibiting use from other community sources
- Put in place measures to reduce water and electricity consumption
- Employ locals to the extent possible
- Develop and adopt a Gender Action Plan to promote the transfer of construction skills to local women, to facilitate their employment at the Project site, including training and recruitment targets.

Labor Conditions

- Implement the measures and commitments defined in the Labor Management Procedures. A copy of the LMP can be found in the Project ESMF
- Provide all workers with terms and conditions that comply with Yemeni Labor Legislation, most particularly Decree 5/1995) and applicable International Labor Organization conventions on

workplace conditions.

Insurance

- Provide insurance for all employees involved in the subproject as indicated by Yemen's Labor Law
- Compensate any employee for death or injury, except to the extent that liability arises.

Grievance Mechanism for Workers

The Contractor shall put in place a Grievance Mechanism for its workers and the workers of its subcontractors that is proportionate to its workforce. The GM shall be distinct from the Project level Grievance Mechanism for affected individuals and communities, and shall adhere to the following principles:

- Provision of information. All workers should be informed about the grievance mechanism at the time they are hired, and details about how it operates should be easily available, for example, included in worker documentation or on notice boards.
- Transparency of the process. Workers must know to whom they can turn in the event of a grievance and the support and sources of advice that are available to them. All line and senior managers must be familiar with their organization's grievance procedure.
- Keeping it up to date. The process should be regularly reviewed and kept up to date, for example, by referencing any new statutory guidelines, changes in contracts or representation.
- Confidentiality. The process should ensure that a complaint is dealt with confidentiality. While procedures may specify that complaints should first be made to the workers' line manager, there should also be the option of raising a grievance first with an alternative manager, for example, a human resource (personnel) manager.
- Non-retribution. Procedures should guarantee that any worker raising a complaint will not be subject to any reprisal.
- Reasonable timescales. Procedures should allow for time to investigate grievances fully, but should aim for swift resolutions. The longer a grievance is allowed to continue, the harder it can be for both sides to get back to normal afterwards. Time limits should be set
- for each stage of the process, for example, a maximum time between a grievance being raised and the setting up of a meeting to investigate it.
- Right of appeal. A worker should have the right to appeal to the UNOPS or national courts if he or she is not happy with the initial finding.
- Right to be accompanied. In any meetings or hearings, the worker should have the right to be accompanied by a colleague, friend or union representative.
- Keeping records. Written records should be kept at all stages. The initial complaint should be in
 writing if possible, along with the response, notes of any meetings and the findings and the
 reasons for the findings. Any records on SEA shall be registered separately and under the
 strictest confidentiality.
- Relationship with collective agreements. Grievance procedures should be consistent with any collective agreements.
- Relationship with regulation. Grievance processes should be compliant with the national employment code.

Protection from Sexual Exploitation and Abuse

- Provide repeated training and awareness raising to the workforce about refraining from unacceptable conduct toward local community members, specifically women
- Inform workers about national laws that make sexual harassment and gender-based violence a punishable offence which is prosecuted
- Prohibit its employees from exchanging any money, goods, services, or other things of value, for sexual favors or activities, or from engaging in any sexual activities that are exploitative or degrading to any person.
- Develop a system to capture gender-based violence, sexual exploitation and workplace sexual harassment related complaints/issues.
- Adopt a policy to cooperate with law enforcement agencies in investigating complaints about gender-based violence.

Protection from Child Labor

- Verify that workers are older than 18 when hiring
- Exclude all persons under the age of 18
- Review and retain copies of verifiable documentation concerning the age of workers

Code of Conduct

Contractors shall ensure that all employees, including those of subcontractors, are informed about and sign Code of Conduct. Code of Conduct sample is available below in which the contractor shall adopt and include all provisions in their own Code of Conduct:

CODE OF CONDUCT FOR CONTRACTOR'S PERSONNEL

We the Contractor [enter name of Contractor] have signed a contract with UNOPS for [enter description of the activities]. These activities will be carried out at [enter the Site and other locations where the activities will be carried out]. Our contract requires us to implement measures to address environmental and social risks related to the activities, including the risks of sexual exploitation and assault and gender-based violence.

This Code of Conduct is part of our measures to deal with environmental and social risks related to the activities. It applies to all our staff, including laborers and other employees at all the places where the activities are being carried out. It also applies to the personnel of every subcontractor and any other personnel assisting us in the execution of the activities. All such persons are referred to as "Contractor's Personnel" and are subject to this Code of Conduct.

This Code of Conduct identifies the behavior that we require from all Contractor's Personnel.

Our workplace is an environment where unsafe, offensive, abusive or violent behavior will not be tolerated and where all persons should feel comfortable raising issues or concerns without fear of retaliation.

Required Conduct

Contractor's Personnel shall:

- 1. carry out his/her duties competently and diligently;
- 2. comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Contractor's Personnel and any other person;
- 3. maintain a safe working environment including by:
- 4. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
- 5. wearing required personal protective equipment;
- 6. using appropriate measures relating to chemical, physical and biological substances and agents; and
- 7. following applicable emergency operating procedures.
- 8. report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to his/her life or health;
- 9. treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
- 10. not engage in any form of sexual harassment including unwelcome sexual advances, requests for sexual favors, and other unwanted verbal or physical conduct of a sexual nature with other Contractor's or Employer's Personnel;
- 11. not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another. In Bank financed projects, sexual exploitation occurs when access to or benefit from Bank financed

Goods, Works, Consulting or Non-consulting services is used to extract sexual gain;

- 12. not engage in Sexual Assault, which means sexual activity with another person who does not consent. It is a violation of bodily integrity and sexual autonomy and is broader than narrower conceptions of "rape", especially because (a) it may be committed by other means than force or violence, and (b) it does not necessarily entail penetration.
- 13. not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
- 14. complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, and Sexual Exploitation and Assault (SEA);
- 15. report violations of this Code of Conduct; and
- 16. Not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Employer, or who makes use of the Grievance mechanism for Contractor's Personnel or the project's Grievance Mechanism.

Raising Concerns

If any person observes behavior that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

- 1. Contacting the Individual designated by the Contractor [enter name of Contact)
- 2. In writing at this address []
- 3. By telephone at []
- 4. In person at []
- 5. Calling [] to reach the Contractor's hotline and leave a message (if available)

The person's identity will be kept confidential, unless reporting of allegations is mandated by the country law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behavior prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

Consequences of Violating the Code of Conduct

Any violation of this Code of Conduct by Contractor's Personnel may result in serious consequences, up to and including termination and possible referral to legal authorities.

For Contractor's Personnel

I have received a copy of this Code of Conduct written in a language that I comprehend. I understand that if I have any questions about this Code of Conduct, I can contact [enter name of Contractor's contact person with relevant experience in handling gender-based violence] requesting an explanation.

Name of Contractor's Personnel: [insert name]	
Signature:	
Date: (day month year):	
Countersignature of authorized representative of the Contractor:	
Signature:	
Date: (day month year):	

9. Contractor Environmental and Social Reporting

The Contractor shall report work-related incidents, accidents to UNOPS within 24 hours of their occurrence.

Contractors shall monitor, keep records and report on the following environmental and social issues:

Safety: hours worked, lost time injury (LTI), lost workdays, recordable incidents and corresponding Root Cause Analysis (lost time incidents, medical treatment cases), first aid cases, high potential near misses, and remedial and preventive activities required (for example, revised job safety analysis, new or different equipment, skills training, and so forth).

Environmental incidents and near misses: environmental incidents and high potential near misses and how they have been addressed, what is outstanding, and lessons learned.

Major works: those undertaken and completed, progress against project schedule, and key work fronts (work areas).

ESHS requirements: noncompliance incidents with permits and national law (legal noncompliance), project commitments, or other ESHS requirements.

ESHS inspections and audits: by Project Company, Independent Engineer, UNOPS and its implementing partners, or others—to include date, inspector or auditor name, sites visited and records reviewed, major findings, and actions taken.

Workers: list of workers at each site, confirmation of ESHS training, indication of origin (expatriate, local, nonlocal nationals), gender, age with evidence that no child labor is involved, and skill level (unskilled, skilled, supervisory, professional, management).

Training on ESHS issues: including dates, number of trainees, and topics.

Footprint management: details of any work outside boundaries or major off-site impacts caused by ongoing construction—to include date, location, impacts, and actions taken.

Stakeholder engagement: highlights, including formal and informal meetings, and information disclosure and dissemination—to include a breakdown of women and men consulted and themes coming from various stakeholder groups, including vulnerable groups (e.g., disabled, elderly, children, etc.).

Details of any security risks: details of risks the Project Company may be exposed to while performing its work—the threats may come from third parties external to the project.

Worker grievances: details including occurrence date, grievance, and date submitted; actions taken and dates; resolution (if any) and date; and follow-up yet to be taken—grievances listed should include those received since the preceding report and those that were unresolved at the time of that report.

Stakeholders grievances: grievance and date submitted, action(s) taken and date(s), resolution (if any) and date, and follow-up yet to be taken—grievances listed should include those received since the preceding report and those that were unresolved at the time of that report. Grievance data should be gender-disaggregated.

Major changes to Contractors environmental and social practices.

Deficiency and performance management: actions taken in response to previous notices of deficiency or observations regarding ESHS performance and/or plans for actions to be taken should continue to be reported to UNOPS until it determines the issue is resolved satisfactorily.

Annex 4 Public consultation questionnaires

Yemen Emergency Lifeline Connectivity Project - المشروع الطارئ للربط الحيوي للطرق في اليمن

برنامج تنمية الطرق الريفية

إن الهدف الرئيسي لبرنامج تنمية الطرق الريفية على المدى البعيد هو تحسين حياة ومعيشة سكان المناطق النائية بما في ذلك سكان الأرياف وتقليل العزلة التي يعيشونها وكذلك تواصل المجتمع الريفي بسكان المناطق الأخرى وتسهيل الدخول إلى الأسواق والحصول على الخدمات العامة من مياه – تعليم –صحة – كهرباء – وتحسين الطرق وربط تلك المناطق بالمراكز الإدارية لمراكز المديريات والمحافظات. وعلى ضوء ما تقدم تم إختيار مسار المشروع المناطق بالمراكز الإدارية لمراكز المديريات والمحافظات. وعلى ضوء ما تقدم تم إختيار مسار المشروع (....................) ضمن المشاريع المستهدف تنفيذها (إنشاء الطريق / (صيانة الطريق) والذي يتوقع أن يساهم في تحسين حياة ومعيشة المواطنين.

وعليه يرجى إكمال الاستبيان أدناه للمصلحة العامة ويمكن للمشارك عدم كتابة أي بيانات غير مرغوب في تضمينها

ديرية:	ا سم المشروع محافظة:
التاريخ:/	اسم منفذ الاستبيان :
النوع: □ ذكر □ أنثى	اسم مشارك الاستبيان :
رقم الهاتف:	(العمر :(اقل من15) (16-30) (45-31) (46 –أكثر
	المهنة:

لا أعرف	غير موافق	موافق	الآثار الإيجابية لمشروع الطريق : ما مدى موافقتك على ما يلي:	م
			صيانة الطرق سيخفف من الازدحام المروري	1
			تأهيل الطريق سوف يساعد في الحفاظ على المركبات	2
			تنفيذ المشروع سوف يساعد في تحسين السلامة المرورية للمركبات والأشخاص وخاصة المعوقين والأطفال	3
			تنفيذ المشروع سيساهم في تحسين الخدمات : ماء – كهرباء – غاز-تعليم –صحة -تقليل زمن المواصلات – تسويق المحاصيل الزراعية 	4
			المشروع سوف يساهم في تشجيع تشغيل عمالة من السكان المحليين وتحسين دخلهم.	5
			المشروع سوف يساهم في الحد من الحوادث داخل القرى التي يمر بها الطريق.	6
			المشروع سيساهم في تقليص زمن الوصول إلى الخدمات كالمدارس والمستشفيات.	7
			سيساهم المشروع في مساعدة الأسرة بالتنقل بسهولة وزيارة الأقارب.	8
			سيساهم المشروع في التخفيف من معاناة النازحين والفقراء والسكان بشكل عام	9
			تنفيذ المشروع سيساهم في تحسين الأنشطة الاقتصادية	10
			أي آثار إيجابية أخرى تتوقعها	11

لا أعرف	لا	نعم	المخاوف من المشروع الطريق : هل لديك تخوف مما يلي	م
			بعد تنفيذ المشروع ستزداد سرعة المركبات على الطريق وتكثر الحوادث	1
			انقطاع الطرق سيؤدي إلى صعوبة الوصول إلى مرافق الخدمات مثل المستشفيات والمدارس والأسواق العامة أثناء فترة العمل بمشروع الطريق	2
			الخسارة الاقتصادية للمحلات التجارية في فترة التنفيذ وإغلاق الطريق	3
			عدم الاستجابة لشكاوى الأهالي في حين حدوث ووجود مخالفات في فترة التنفيذ من قبل المقاول	4
			عدم مراقبة المقاول أثناء تنفيذ عن العمل من قبل أصحاب العمل	5
			الازعاج اثناء التنفيذ	6
			الغبار الناتج عن الأعمال	7
			الاستحواذ واستخدام ارضي خاصة	8
			توجيه حركة المرور لطرق عبر تحويل أخرى قد يسبب ازدحام مروري اختناقات مرورية في شوارع اخرى	9
			انقطاع وتعطيل خدمات المياه والمواصلات في موقع المشروع	10
			سيتسبب المشروع بعنف مجتمعي (ضد النساء- الأطفال – المهمشين- النازحين)	11
			أي تخوفات أخرى	12
			أي احتياجات أخرى:	13
			ر. . بمثل المشروع أولوبة لتنفيذ أعمال الانشاء / الصيانة ولماذا؟	ها

هن يمن المسروع اولويه تنتفيد اعمان الإنساء ١ الطبيانة وتعادا.

Complaints or enquiries related to this project which is supported by the World Bank and implemented in the country by UNOPS and RAP can be sent via the below channels: يمكن إرسال الملاحظات والاستفسارات بخصوص هذا المشروع (المشروع الطارئ للربط الحيوي للطرق في اليمن) والممول من البنك الدولى عبر القنوات التالية والتي تقع تحت مسؤولية مكتب الأمم المتحدة لخدمات المشاريع:

Toll Free Number Landline SMS and WhatsApp Email 8000190 01 504914 and 01 504915 739888388 grm-yemen@unops.org رقم مجاني رقم هاتف أرضي رسائل نصية أو واتساب بريد إلكتروني

Annex 5 Consultation records samples

يسم الله الرحيم	يسم الله الرحمن الرحيم
يعم الله الريقي. بونامج تتعية الطوق الويفيه.	برنامج تنمية الطرق الريفيه.
برنامج تنفوي الروبود. الإدار ة العامة - صنعاء	الادارة العامة - صفعاه
إن الهد ف الرغيس لبر نامج تثمية الطرق الريقيه على المدى البجد هو تحسين حياة ومعيشة سكان المناطق الثانية بما في ذلك سكان	. و المراقب الرئيسي فبرنامج تفعية الطرق الريقية على المدى البعيد هو تعمين حياة ومعيشة سكان المناطق النائية بما في ذلك سكان إن الهدف الرئيسي فبرنامج تفعية الطرق الريقية على المدى البعيد هو تعمين عياة ومعيشة سكان المناطق النائية بما في
الأرياف وتثليل المرّلة التي يعيشونها وكذلك تواصل المجتمع الريقي بسكان المناطق الأخرى وتسهيل الدخول إلى الأسواق والحصول على الخنمات العامه من مواه – تعليم حصمة – كهررياء – وتصين الطرق وربط تلك المناطق بالعراق الإداريه لعراكز المديريات	ن لهد نه ارئيسي برندج شبه تعرق ابرايه على بستن بايد بو معين جود وحيد الارياد ونظل قدرة لكي بيمونرنها وكالك تواصل المبتمع الرياني سكان الشلطة الأمرى واحيال الشواق إلى الأحواق والمصول على الخدمات المفاد من بياد سلطير حصصة – كيرياء در تصمين الطرق وربط تلك الشلطي بالمراكز الإدارية ليدوركل الشيريات على الخدمات المفاد من بياد سلطير حصصة – كيرياء در تصمين الطرق وربط تلك الشلطي بالمراكز الإدارية الدوران
والمحافظات . وعلى ضوء متتم تم إختيا ر مسار مشروع طريق/ ا <u>لآزار أن المسال</u> م، ضمن المشاريع المستهدف تتفيذها (إنشاء الطريق/ صيانة الطريق/ والذي يتوقع أن يساهم في تحسين حياة ومعيشة المرطنين.	على الخدمات المنه من بهت صنايم حسمت - هورايه - ويخسس معرى وروسة
الماريق/ صيفه العاريق) و الذي يوطع «ن يسامع في تحقيق خود و معينته الموطنيق. و عليه يرجى إكمال الاسكيان أنذاء أما فيه المصلحة العامه :	و عليه برجي إكمال الاستبيان أدناه الما فيه المصلحه العامه :
اسم العشروع: المريق الأزارق الضائع (دمز العشروع: ELC-RAP-DHL-001) - مديرية : الأزارق - محافظة. الضائع	اسم العشووع: طريق الأزارق – الضائع (رمز العشروع: ELC-RAP-DHL-001) – مديرية : الأزارق – محافظة: الضائع
اسم منظ الاستبيان : التاريخ://	الم منذ الاستيان: ركي إعمال مرجم من التربية
اسم مشارك الاستبيان: يمايل هد دن الرياب النوع فكركها الله	اسم مشارق الاستبيان : العرج : ذكر السلام الله الله الله الله الله الله الله ا
العدز(الله من 15) (31-46) (45-31) (30-16) (نتم الهن 30 من 7 ٧٠ كنثر) (ما الهن 30 من 7 ٧٠ كنثر) المسهنة.	السر:(الل من 1) (10-10) ((10-10) (10-10) (10-10) (10-10) (10-10) (10-10) (10-10)
م الاثار الإيجابية لمشروع الطريق: ما مدى موافقتك على ما يني: موافق غير موافق الا عرف	
1 صيانة الطرق ستخنف من الازدحام المروري	1 صيلة الطرق ستغلف من الازدهام العروري
2 مسيئة الطروق موت يساعد في الدفائظ على المركبات 3 تتلية فشار وعروب بساعد في لدفائظ على المركبات والأشفاء من وخشمة المسوقين (الأنقال	
4 تنفذ المتروع سيداهم في تحمين الفصات: ماء حكورياء غاز معليم صمحه معظيل زرن المواصلات - تعويق المحاصيل الزراعيه	و خاصه المعرفين و الحصل الخدمات : ماه - كبرياء - غاز خطيم -صحمه تقلق المشروع بسياه في تصويق المحاصيل الزراعيه
5 الشّروع سوف يساهم في تشجيع تشغيل عمالة من السكان المحليين وتحسين ا	5 المشروع سوف يساهم في تشجيع تشغيل عماله من السكان المعبيين وتحسين دخليم.
 أستروع سوف يساهم في الحد من الحوادث داخل القري التي يعر بها الطريق. المشروع سيساهم في تقليص زمن الوصول الى الخدمات كالمدارس. 	6 الشروع سوف يسالم في العد من الحوالات داخل الترى التي يعر بها المطريق. محمد المساورة على المساورة ال
و المستشهات. 8 اميساهم البشر و علم مساعدة الاسر ء بالتنقل بسبب لة و زيارة الاكانات	و المستشوبات. 8 سيساهم المشروع في مساعدة الاسره بالتنقل بسيولة وزيارة الاقارب. 8 سيساهم المشروع في مساعدة الاسره والتاليب القالب السكان بشكار علم
و سياسهم المشروع في التخفيف من معادة النازحين والفراء والسكان بشكل عام	و سياسهم المشروع في التخليف من معاناة المار هين والعواء والسحال بستان سم 10 تتاذر البش وع بسياهم في تصين الإنشطة الاقتصادية
11 اي اثار ايجابية أخرى تتوقعها بركتان لهما عرضي والمستحد مومود لمواج العنام مؤسر المحدد	11 ای اگر پیجنبه اخری موقعها
م المخارف من المشروع الطريق: من لديل تموف مما يلي نعم لا لا أعرف المخارس المريق وتكثر الموادث لا المرابع وتكثر الموادث المرابع المرابع وتكثر الموادث المرابع المرابع وتكثر الموادث المرابع المرابع المرابع وتكثر الموادث المرابع المر	م المتعلق على السلوري المراقع المراقع المراقع وتكثر الموادث المراقع المراقع وتكثر الموادث المراقع الم
2 انقلنا طلاق سلادي أم صحوبة أو صول إلى در الآق القدمات مثل المستشفيات والشائر من و الاموق العامة الثامة ترة المناسية مترة الطالبية من المستشفيات	والمدارين و الأسوق العامة استه طرح مقصل بمسروت التنظيم الفلات المستريق
 الطعارة الإتصادية للحكات التجارية في نقرة التتنيذ واملاق الطريق مع الاستجهة الشكاوى الاهلى في مين حدوث ووجود مخالفت في نقرة التنفيذ من قبل استفرا 	 ۵ عدم الاستجابة لشكارى الاهالى في حين حدوث ووجود مخالفات في فترة التنفيد
من عبن المعدور	من قبل المقابل . 2 معمر الله تعفيل الثار تنفيذ العمل من قبل المسحاب العمل . 3 الازماج 150 التعفيد .
7 Hier, distr and itself (2014) 8 Warden House (1 (2014) 1 (2014) 2 (2014	7 الغيار الثانج عن بُلغيذ الإعمال 9 الاستحداد المشخداء الرضي خاصية
9 ترجیه حرکة الدور الملوق عبر تحویل اغزی الدیمیه از تحام مروري اختلافات مروریة غیر شوارع اغزی	و توجیه حرکة الدرور لطرق عبر تحویل الخری قد پسبب از تحام مروزی اختدالات مروز به فی شواد ع الحزی
10 انقطاع وتحطيل خدمات العزاد والموصلات في موقع المشروع المؤرع المناطقة المستورع المناطقة ال	0 القطاع وتعطيل خدمات العياد و الموصدات في موقع المشروع 11 سينتيب المشروع بعضه مجلمي (ضد النساء، الأطفال – المهمئين- الناز حين)
ا ای تفوقت اخری 12 ای امتیادت اخری 13 ای امتیادت اخری:	21 اي تغرفات لغري 13 اي احتياجت آخري:
المسوحة خوتها بـ CamScanner	[3] إي الموقف الحراقية المساوحة خوليا بـ CamScanner
و بسم الله الرحمن الرحيم	المسوحة خوليا د CamScanner
لا يسم الله الرحيم الرحيم الله الرحمن الرحيم برنامج تنبية الطرق الريف. الآلاة والطنب صنعاء	
بر نامج تنمية الطرق الريف. بر نامج تنمية الطرق الريف. الإدارة العامد - صنعاء	المسوحة خونيا بـ CamScanner بسم الله الرحمن الزحيم برنامج تتمية الطرق الريقيه. الإدارة العامه - صفعاء
ير نامج تتمية الطرق ألريقيه. الإدارة المامه - معالم الريقيه الإدارة المامه - معالم الريقية على المنافق المامة من مسين حباة ومعيشة سكان الشاطق الثانية بما في ذك سكار ان فيد ف الريقيس ليراضح النبرة الطرق الريقيه على الشادي الجماد من تصمين حباة ومعيشة سكان الشاطق الثانية بما في ذك سكار الريقيس وطبق الحرارة فتي يسترفيها وكذك تواسل المستماع الريامية بسكان المنافق الأخار والوساع الريقيس وطبق الحرارة فتي يسترفيها وكذك تواسل المستماع الريامية وطبق الطالقة بالمامة الريامية والمامة المراوة المستمالة المنافق المنافق المنافق المامة المامة المستمالة	المسوحة خونيا بـ CamScanner يسم الله الترحمن الترحمن الإدارة المنطق الدينية. الإدارة المنطقة مصادة إن لهذت ترتبي ترتبط تشرق أو إدينية على الندى البعد عرفتمين جياة ومعيشة سكان الشفافي الشية بما في ذلك سكان الرئيس وقبل لمرتب الترييس المرتب المرتب الرئيس المرتب المرتب المنافق الأخرى وشميل الشفال اليور الاحراق والمحمول الرئيس وقبل لمرتبة التي مرتبة إما كلف الدورات المجتمع الرفاح استكان الشفافي الأخرى وشميل الشفال اليورات
بر نامج تنمية الطرق أثر يتيه. الإدارة العامه - صنعاء الإدارة العامه - صنعاء الإدارة العامه - صنعاء إن فيد ما وليسي فيرديج عنية الطرق أثر ينيه على الندي الهيد هر تصدين جياة ومعيشة سكان الشابل الثانية بما في ذلك سكار الزراجين بين المراق الذي يومية الطرق أثر ينيه على الندي الهيد فر تصدين جياة ومعيشة سكان الشابل المدون إلى الأدواق والمسمول الزراجين بين المراق المراق الموراق إلى الأدواق والمسمول على التعدمات العامة من مياه - أعلى حصحة - كبراء - وتحسين الشاق ويدخت الشافق المحروق الأدارية لموراق الإدارية لمراق الأدارية المستوية والمستقلف ورطن متواد الشاري الدواق في استام في تحسين عبدة ومشتة الموطنة الشارية المستوية الما الموراق الإدارية المستوية الموراق الموراق الموراق المستوية المستوية الموراق المو	المسوحة خونيا بـ CamScanner برنامج تتمية الطرق الريفيه. الإدارة العالمه - صفعاء الإدارة العالمه - صفعاء الإدارة العالمه - صفعاء الإدارة العالمة - صفعاء الرياس وقال الرواة المرسولية الحالات الراسة العالمة الرياسة المراسة المراسة المداول إلى الأحواق والمحمول الرياس وقال الرواة المرسولية الحالات المراسة العالمة الرياسة المناسقة المالية المداول إلى الأحواق والمحمولة على القدمات العالمة بناء المداولة المراسة المداولة المراسة المداولة المراسة المداولة الوادية الرواة المداولة المداو
بر نامج تنمية الطرق الريف. الإندارة العامة - مستماه الإندارة العامة - مستماه الإندارة العامة - مستماه ان فهد ما إنوبسي فرزامج تنمية الطرق الرابية على المدى المهية هو تصمين حياة ومعيشة سكان الداخلي الثانية بسا في ذلك سكار الرياس ويقال المرابة في مهيئة الطرق الرابية على المدى المهية هو تصمين خياة ومعيشة سكان المالة المرابة والمرابة المرابة الموافقة المرابة المرابة المرابة المرابة الموافقة الموافقة المرابة الموافقة الموافقة الموافقة الموافقة المرابة المرابة الموافقة المرابة الموافقة المو	بسم الله الرحمن الرحيم برنشج تتمية الطرق الريفيه. الإدارة العلم، صفحاء ان قيد ف الرغيس غير تمنع تشرق الريفية على المدن المجموع مع تصمين هياة وموشة بكان المنطقاق الشرة بما في ذلك سكان الرياف يعين المزالة التي بوطريات والمساول والمساول المناطقة الأمور ورعيان الشغاق الشرة بما في ذلك سكان الرياف يعين المزالة التي بوطريات والمساول المناطقة المناطقة المناطق المداول المساولات على المتمان المناطقة
ير نتيج تنمية الطرق الرياب. الإنارة العام، - صساحا والله المرحمن المرحيم الإنارة العام، - صساحا والله الرياب هل الشدى البديد هو تصدين جاة ومعيدة سكن الداخل الثانية بسا في ذلك سكار الرياس وإنها إسرائية التي ميتوانها كلنا التي المراس الميتوان بحال السائية المراب وأميل المعاول إلى الأموال والمحدوث الموال الم	لمصوحة خونيا بـ CamScanner بر تاميخ تقدية المطرى الريقيه. الإبرائر أعامله - صافح القرارية على الشريع الترجيع المرجيع المرجي
ير نامج تتمية الطرق ألريقيه. الإدارة المامه - مسافرة ألريقيه . الإدارة المامه - مسافرة الريقيه على الشدى الجدة هو تحسين حياة ومعيشة سكان الشابق الثانية بها في ذك سكاة الأربية ومثال الريامة في بيوترفيا وكالك تواصل المشمن فرنيام سكان الشابق الأخذى ووصيل الحوال الريامة والمالة المخاذى ووصيل الموال المنافق الأخذى ووصيل الموال المنافق الأخذى ووصيل الموال المنافق المرافق الشابق المرافق المنافق الم	يسم الله الرحين الرحيم الرحيق الرحيم المنافق الديم المنافق الديم المنافق الديم المنافق الديم المنافق الديم المنافق ا
بر نامج تندية الطرق الرونيه. الإدارة المله، مساول الرونيه. الإدارة المله، مساول الرونيه. الإدارة المله، مساول الرونيه. الإدارة المله، مساول الرونيه المساول الإدارة المساول المسا	يسم الله الرحين الرجيم برنامج تتمية الطرق الريفيه. الإدارة العالم، و صفحاء الإدارة العالم، و المنابع الإكانة تراسل الدخية الرباب سكان الشاطق الادرو، و سها الشاط المنابع المراكز الإدارية المنابع المراكز المنابع
يورندج تندية الطرق الريف. الإنارة العامد - صنعاء الريف رقال البرائة في الموافقة الريف على المدى الموجد هو تصنين خياة ومعيدة حتى الدائل الثانية بها في ذلك حكم الريف رقال البرائة في الموافقة الم	لمسوحة خواباً براقية، لا ترفيح تتمية الطول ق الريفية، الإثارة العامة - صفعا الريفية، الإثارة العامة - صفعا الريفية على الدى القيدة للمن الدى المنافق الثانية بما لمن ذلك سكان الدنافة الدائمة العامة الدى سكان الدنافة الدائمة المنافق الدينة بما لمن ذلك سكان الدنافة الدائمة المنافق الدينة بما لمن ذلك سكان الدائمة المنافق الدينة المنافق الدينة المنافق الدينة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة الدينة الدينة الدائمة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة الدينة المنافقة ا
بر نامج تندية المطرق الريتيه. الإدارة المامة مساورة الريتيه المطرق الريتيه على الله المرحمن المرحيم الإدارة المامة مساورة الريتيه المراحة الريتيه على الشدى الجديد هر تحسين هذاة ومعيشة سكان الشابل الثانية بها في ذك سكار الاريس ويقيل العراجة في يعيد المواجعة والدينة والمساورة المساورة المساورة المساورة والمعمولة الاريس ويقيل العراجة في يعيد المهام مساورة المواجعة المواجعة المساورة الإدارية والمحاورة المساورة ال	برنامج تتمية الطرق الريف. برنامج تتمية الطرق الريف. برنامج تتمية الطرق الريف. الإسلام والمحافظ المحافظ الريف. الإسلام والمحافظ المحافظ المحافظ الريف المحافظ
بر نامج تندية الطرق أفريتيه. الإدارة العامه - صداعا الارتياد و الطرق الريتيه . الإدارة العامه - صداعا الإرتياد و الطرق الريتيه . الإدارة العامه - صداعا الإدارة العامه - صداعا الإدارة العامه - صداعا الإدارة العامه - صداعا الإدارة العامه - المنافق الثانية بها في ذلك . حكا الإدارة وقال الريتاد وقال الارتياد وقال الارتياد وقال الارتياد وقال المنافق الثانية بها في ذلك . حكا الريتاد وقال المنافق ا	سمع الله الرحمن الرحيم برنامج تنمية الطورى الريفيه. الإدارة العلم، صفحاء الإدارة العلم، سفون الربية على الدول الويد على الدول المحافظة المشاخل المدولة الويد ورعياه المدولة المدولة الإدارة المدولة
بر نامج تندية الطرق الريتو، الإدارة المامة - مساها المرق الريتو، الإدارة المامة - مساها المرق الريتو، الإدارة المامة - مساها المرتب المرت	بسم الله الترجيع تتمية الطوى الريف. الإن المعتبر العالم على الريف. الإن المعتبر المعتبر المعتبر المعتبر المعتبر المعتبر المعتبر على سمان المنافل الدائم المعتبر العالم المعتبر المع
بر نامج تندية الطرق الرياف. الإدارة العامه - صعفاه الارتفاق الرياف. الإدارة العامه - صعفاه الارتفاق المنافق الثانية بما في الله المرحمن المرحمن المرحمن المنافق الثانية بما في الك سكاة الرياف ويقال المنافق الثانية بما في الك سكاة الرياف ويقال الرياف ويقال المنافق الثانية بما في الك سكاة الرياف ويقال المنافق المنافق المنافق المنافق والمبيلة المنافق المناف	بسم الله الترجيع تتمية الطوى الريف. الإن المعتبر العالم على الريف. الإن المعتبر المعتبر المعتبر المعتبر المعتبر المعتبر المعتبر على سمان المنافل الدائم المعتبر العالم المعتبر المع
بر نامج تندية الطرق أفرينيه. الإثارة العامه - صفاء الوزيد. الإثارة العامه - صفاء الوزيد. الإثارة العامه - صفاء الوزيد. الإثارة العامه - صفاء الوزيد وقال الوزيد على الدي اليمية مو تحسين حياة ومعينة حكن المنطق الثانية بعا لم ذلك . حكا الإراق وقال الوزيد في الوزيد وقال الوزيد في الوزيد وقال المنطق المنطق الوزيد وقال المنطق ال	بسم الله الرحين الرحيم المراق الريقيه. الإدارة العالم، و صفاه على العدمات العام و المعام و المعام المعام المعام المعام المعام العالم المعام العالم الإدارة المعام العالم المعام العالم المعام المعا
بر نامج تندية الطرق الرياب. الإنارة العلمه - صنعاء الإنارة العلم - المنافق الثانية بعل الدى العبد هو تصنيا حياة ومعيشة سكن الشافل الثانية بها في ذلك سكار الرياب وبقال الرياب الرياب المنافق الرياب على الدى العبد معن السابق المجاول والمساول المنافق الثانية بها في الله المنافق التراب المنافق الثانية بها أمن المنافق	بسم الله الرحين الرياب المسلم الله الرحين الرحيم المسلم الله المسلم الله المسلم المسل
بر نامج تندية الطرق الرياب. الإنارة العلمه - صداعا الرياب. الإنارة والعلم الرياب الرياب على الذي الرياب على الذي البدية مو تصدين حياة ومعيشة سكن الشابل التالي والمساول والمساول الرياب والمساول المنابل ال	بسم الله الرحمن الرحيم المنافق الدينية المسلم الله الرحمن الرحيم الرحيم الرحيم الرحيم الرحيم الرحيم الرحيم الرحيم الرحيم الرافق الدينية المسلم الله المسلم الله الرحمن الرحيم المنافق الدينية المواقف المنافق الدينية المنافق الدينية المنافق المنافق المنافق الدينية المنافق
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Annex 6 Due diligence report

Assessment was conducted to evaluate whether any assets will be affected by the subproject civil work in which all assets were found outside the corridor of impact. The entire civil work will take place within the existing right of way, public land where there is no cultivation nor fruit trees. The following assets were identified along the road and all assets were found out of the corridor of impact; approximate distance from the end of the corridor of impact is added in the below table along with the structures details and coordinates.

No	Asset Category	Description	Latitude	Longitude	Distance from end of corridor of impact (m)
1	Village	Nearest house right side	13.635860	44.716418	3.75
2	Structure	House right side	13.635525	44.715967	2.25
3	Land	Agricultural land right side	13.629063	44.714746	2
4	Land	Agricultural land left side	13.625769	44.711845	1.5
5	Land	Agricultural land left side	13.632534	44.712626	1.25
6	structure	House left side	13.634994	44.715603	6
7	Land	Farm right side	13.626297	44.712405	1
8	village	Nearest house right side	13.633376	44.711724	4

• Relocation of existing public water pipes

This item is related to the transferring of the existing public water pipes so such pipes will not be affected by the movement of equipment or civil work activities. Water pipes will be secured and relocated adjacent to the road side in a safe public land. Existing location of the pipes and its dimensions are available in the below table:

Station		
From	То	Length (Meter)
11+925	12+125	200

Relocation of existing public walls / fences

This item is about the reinstallation/rebuilding of existing public walls if affected by the civil work or equipment/vehicles movement. Those walls are public and will be rebuilt as required immediately after completing the civil work at the relevant road section in public lands. The walls existing location and its dimensions are available in the below table:

Stat	ion	Length	Description
From	То	(Meter)	
8+725	8+825	100	Re building at same location in case affected by civil works activities
9+700	9+800	100	Re building at same location in case affected by civil works activities