

Karachi Water and Sewerage Services
Improvement Project (KWSSIP)

Environmental and Social Screening Report – Street No. 04 Additional Works

Improvement of Water Supply & Sewerage
in Low Income Settlements - Essa Nagri /
Welfare Colony

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Document Control / Review

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18 May 2026	NESPAK – E&S Team (Revised)	PIU E&S Team	PIU E&S Team

1. Introduction

An Environmental and Social Management Plan (ESMP) was prepared in June 2023 for the Essa Nagri sub-project under KWSSIP-1 and was implemented during the commencement of construction works. During the course of implementation, the project scope has been expanded to include sewer line laying in Essa Nagri Street No. 04 to address issues of wastewater overflow and backflow affecting the street.

Street No. 04 is located within the boundaries of Essa Nagri and was initially excluded during the design phase, as the existing sewer network was assessed to be functioning adequately at that time. However, due to recent complaints from the local community and the emergence of sewer overflow issues, the street has now been proposed for inclusion in the project scope. The detailed design and layout for the proposed sewer line are currently being developed by NESPAK.

An initial Environmental and Social (E&S) assessment has been undertaken based on previous project experience and the anticipated nature of the works. The expected environmental and social impacts are considered to be similar to those already identified under the existing ESMP, as the physical characteristics, street layout, and surrounding conditions in Street No. 04 are generally consistent with those of other streets already included in the original project scope.

The nature and scale of the proposed works are also comparable to those carried out in other streets under the sub-project and are already covered under the existing ESMP and Contractor Environmental and Social Management Plan (CESMP).

This Environmental and Social Screening Report has therefore been prepared by the Construction Supervision Consultants – NESPAK on the directives of the PIU KWSSIP to assess and document the potential environmental and social impacts associated with these additional works and to ensure that they are implemented in compliance with the requirements of the World Bank Environmental and Social Safeguards and the project's environmental management framework.

Upon clearance from the Bank, this ES Screening Report will be cleared by the PIU and uploaded at the PIU KWSSIP Website for public disclosure.

Disclaimer / Applicability Statement

This Environmental and Social Screening Report has been prepared for the additional activities identified during project implementation that were not included in the original scope i.e. Laying of sewer pipelines in Street No. 04, located in Essa Nagri, with an approximate length of 700 running feet. It is clarified that nullah cleaning is not included in the scope of this activity, and therefore no environmental or social impacts associated with nullah cleaning are anticipated under this intervention.

The screening has been undertaken to assess the potential environmental and social risks and impacts associated with these additional works and to confirm their consistency with the mitigation framework already established under the approved ESMP of the project.

Based on the screening findings, the nature and scale of the proposed additional works are similar to those previously assessed and do not introduce any new significant environmental or social risks beyond those covered under the existing ESMP. Therefore, this screening report shall serve as an addendum to the approved ESMP, and the mitigation measures and management procedures outlined in the ESMP shall apply to the additional activities. The impacts for these additional works have been reassessed in light of the new location and the

specific area covered under this screening report to facilitate the contractors in implementing the required mitigation measures.

This document should be read in conjunction with the approved ESMP, and all contractors and project staff shall comply with the environmental and social mitigation measures and monitoring requirements specified therein.

2. Description of Additional Works

- a) Laying of sewer pipelines in Street No. 04, located in Essa Nagri, with an approximate length of 700 running feet.
- b) Approximately 40 pipes have already been laid to drain the stagnant sewage in the initial part of the street.
- c) Execution of excavation, trenching, backfilling, and compaction activities.
- d) Restoration of road surfaces to the original condition.

2.1. Duration of Works

The duration of works at Street No. 04 will be approximately 15 days.

Layout map of the sewer pipeline at Street No. 04 is provided as **Figure-1**:

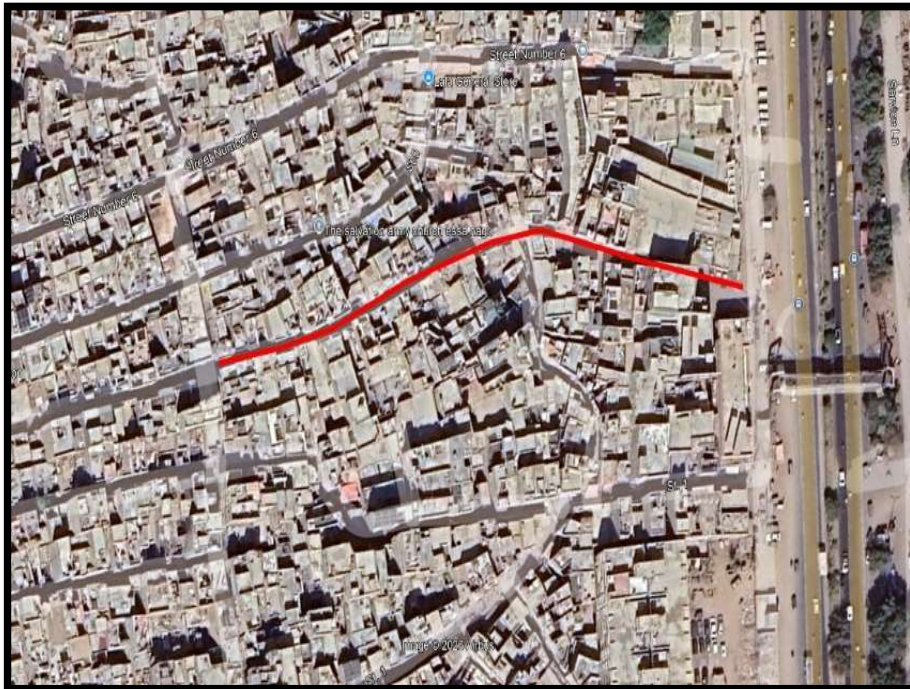


Figure-1: Layout Map of Street No. 04 Sewer Pipeline

Photographs showing the project area are as follows:



3. Environmental & Social Risk Classification and Screening

Based on the environmental and social screening conducted for the proposed additional works in Essa Nagri Street No. 04, the activities are classified as Low to Moderate Risk, consistent with the risk profile of the originally approved Essa Nagri sub-project under KWSSIP-1.

The screening indicates that the proposed works involve the laying of sewer lines within the existing streets and Right of Way of the katchi abadi area and are similar in nature and scale to the activities previously undertaken in the remaining streets of Essa Nagri under the original project scope.

The environmental and social impacts associated with such works are already covered under the approved ESMP. However, these impacts have been reassessed in light of the new location and the specific area covered under this screening report to facilitate the contractors in implementing the required mitigation measures. The potential impacts and corresponding mitigation measures for the additional works at Street No. 04 are presented in this ES Screening Report and will be incorporated into the Contractor’s CESMP for implementation during these works.

Key characteristics of the additional works include:

- Implementation within an urban residential setting (katchi abadi).
- No land acquisition or physical displacement is required; however, PAPs have been identified who will face temporary disturbance to their livelihoods and will be compensated in accordance with the project’s ARAP entitlement matrix.
- No impacts on environmentally sensitive areas.
- Potential impacts are temporary, localized, and construction-related, such as dust, noise, access disruption, and community safety risks.

Table-1 below provides a summary of the E&S screening undertaken for the additional works in Street No. 04:

S. No	Screening Aspect	Key Issues / Risks	Significance	Mitigation / Management Measures	Responsibility
1	Land Use, Ownership & Livelihood Disturbance	Works confined within existing ROW and internal streets of the katchi abadi; no land acquisition required however disturbance of livelihood in terms of access to shops is envisaged.	Moderate	Ensure works remain within the designated ROW through proper site demarcation and worker awareness. Implement traffic and access management measures to maintain access to shops and residences during construction. For temporary livelihood disturbance, compensation will be provided	PIU / Consultant / Contractor

				to the affected shop/business owners in accordance with the project's ARAP entitlement matrix.	
2	Environmental Impacts – Excavation	Dust generation, noise, temporary access disruption, and debris generation	Moderate	Dust suppression through water sprinkling, controlled working hours, proper debris handling, and implementation of traffic management measures.	Contractor / Supervision Consultant
3	Waste Generation	Excavated soil and construction debris	Moderate	Segregation of excavated material, reuse where feasible, and disposal of surplus material at approved disposal sites.	Contractor / Supervision Consultant
4	Public Health & Safety	Risks to residents due to open trenches, equipment movement, and temporary traffic disruptions	Moderate	Barricading of excavation areas, warning signage, safe pedestrian access, and community awareness.	Contractor / Supervision Consultant
5	Occupational Health & Safety (OHS)	Worker safety risks during excavation and pipe laying	Moderate	Provision of PPE, toolbox talks, supervision of works, and compliance with ESMP including the Occupational and Community Health and Safety Guidelines provided within the ESMP.	Contractor / Supervision Consultant

6	Social Impacts	Temporary disturbance to residents, shopkeepers, and pedestrian mobility	Moderate	Advance notification to community, phased construction approach, and operational grievance redress mechanism. For temporary livelihood disturbance, compensation will be provided to the affected shop/business owners in accordance with the project's ARAP entitlement matrix.	PIU / Contractor / Supervision Consultant
7	Vulnerable Groups	Potential mobility constraints for women, children, elderly, and persons with disabilities	Low–Moderate	Provision of safe temporary crossings, consultation with community representatives. For temporary livelihood disturbance, compensation will be provided to the affected shop/business owners in accordance with the project's ARAP entitlement matrix, with additional assistance extended to vulnerable PAPs as per the applicable provisions of the ARAP.	PIU / Contractor / Supervision Consultant

8	Stakeholder Engagement	Need for communication and information sharing with affected residents and continuous awareness building among workers	Moderate	<p>Conduct community consultations and disclose project information prior to and during works. Ensure contractors comply with labor management procedures prohibiting child and forced labor. Implement Code of Conduct and awareness measures to prevent SEA/SH. Coordinate with relevant authorities for safe shifting of utilities if required. Ensure protection of any nearby religious or culturally sensitive sites. Maintain a functional grievance redress mechanism to address community concerns and avoid potential conflicts.</p>	PIU / Contractor / Supervision Consultant
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4. Potential Environmental and Social Impacts

The proposed works involve excavation for sewer pipeline installation within existing streets of Essa Nagri Street No. 04. These activities may result in the following temporary and localized environmental and social impacts discussed as under, while the measures required to mitigate these impacts are also provided as follows:

a- Air Quality Impacts

Dust emissions may occur due to excavation activities, material handling, and temporary stockpiling of excavated soil.

Measures to Control the Air Quality

Dust generated from manual excavation and handling of soil will be minimized through periodic water sprinkling on exposed surfaces. Excavated soil will be temporarily stored in an orderly manner to avoid unnecessary dust dispersion. Compliance with the SEQS, 2016, will be ensured where required.

b- Noise and Vibration

Construction works may generate temporary noise and minor vibrations that could affect nearby residents.

Measures to Control Noise

As excavation and pipe laying will be conducted manually without the use of heavy machinery, noise levels are expected to remain minimal. Construction activities will be carried out during daytime hours to minimize disturbance to residents.

c- Waste Generation

Excavated soil and construction debris may be generated during construction activities. If not properly managed, these materials may create environmental nuisance or obstruct access.

Management of Excavated Soil and Debris

Excavated soil and minor construction debris will be properly managed through temporary storage along the work corridor and reuse for backfilling wherever suitable. Surplus material, if any, will be transported to designated disposal locations approved by the project authorities.

d- Temporary Disturbance to Communities

Although no permanent livelihood impacts are anticipated, short-term inconvenience may occur for residents, shopkeepers, and road users due to excavation works and restricted street access.

Access and Mobility Management for Residents

Excavation will be undertaken in short sections to minimize disruption to residents and local movement. Temporary pedestrian crossings and access arrangements will be maintained to ensure continued access to houses and nearby shops.

e- Community Health and Safety Risks

Open trenches, construction equipment, and vehicle movement may pose safety risks to pedestrians, particularly children, women, elderly persons, and persons with disabilities.

Community Health and Safety Management

Open trenches will be properly barricaded and marked with warning signage. Temporary safety arrangements, including reflective tapes and protective barriers, will be installed to prevent accidents involving residents, particularly children and elderly persons.

f- Occupational Health and Safety Risks

Workers involved in excavation, pipe laying, and material handling may face occupational hazards if appropriate safety measures are not followed.

Occupational Health and Safety Management

Workers engaged in manual excavation and pipe laying will be provided with appropriate Personal Protective Equipment (PPE) such as helmets, gloves, safety shoes, and reflective vests. Regular safety briefings and toolbox talks will be conducted to ensure safe working practices.

g- Impacts on Vulnerable Groups

Temporary mobility challenges and safety concerns may arise for vulnerable community members residing within the katchi abadi.

Protection of Vulnerable Groups

Special attention will be given to maintaining safe movement for women, children, elderly persons, and persons with disabilities by providing temporary walkways and safe crossing points around excavation areas.

h- Potential Community Grievances

Residents may raise concerns related to noise, dust, access restrictions, or delays in completion of construction works.

Implementation of Project's Grievance Redress Mechanism (GRM)

The project's GRM will remain active to address any complaints related to dust, access restrictions, or other community concerns. All grievances will be recorded and resolved in a timely manner.

i- Impacts on Livelihood

13 PAPs have been identified who will face temporary disturbance to their livelihoods due to restricted access during the works.

Livelihood Impact Mitigation and Compensation

PAPs will be compensated in accordance with the project's ARAP entitlement matrix.

Overall, these impacts are assessed as low to moderate in significance and reversible in nature, provided that appropriate mitigation measures are implemented.

5. Implementation Arrangements

- **Contractor:** Update and implement CESMP for additional works based on the approved E&S Screening Report.
- **Supervision Consultant:** Monitor compliance and report monthly.
- **Independent Monitoring Consultant:** Conduct independent monitoring and verification of E&S compliance, review performance of Contractor and Supervision Consultant, and provide independent reports to PIU.
- **PIU (KWSSIP):** Oversight, coordination, and reporting to the World Bank.

6. Monitoring and Reporting

- Daily site supervision by Contractor.
- Monthly E&S compliance reports by Supervision Consultant.
- Periodic independent audits and field verification by Independent Monitoring Consultant, including compliance validation and performance assessment of implementation arrangements.
- Periodic inspections and consolidated reporting by PIU.

7. Stakeholder Consultations with Shops/Businesses/Residents and Livelihood Impact Assessment

Stakeholder consultations were conducted on 06 April 2026 by the Consultant's Social Development Specialist with local shopkeepers, small businesses, and residents located along the proposed sewer pipeline alignment in Essa Nagri / Welfare Colony.

A total of 13 stakeholders, including shop owners, small vendors, and nearby residents, were consulted to inform them about the ongoing sewerage works and to assess any potential impacts on local businesses and livelihoods.

During the consultations, stakeholders were briefed about the scope of work, expected duration of construction activities, and possible temporary disturbances, including localized excavation and temporary restriction of street access. It was explained that the excavation will be carried out manually for installation of a 12-inch RCC sewer pipeline.

Stakeholders were informed that the project team will ensure continuous access to shops and residences as far as practically possible through phased excavation and provision of temporary access arrangements. Community members were also advised about the availability of alternative access streets where required to minimize inconvenience.

In addition, stakeholders were informed about the Project GRM, including the complaint contact number and the availability of a complaint box at the project site to ensure timely reporting and resolution of any concerns.

The shopkeepers were further informed that in case their businesses are temporarily disturbed due to construction activities, they will be eligible for compensation for livelihood/business losses for the number of days their operations are affected, in accordance with the provisions of the project's Abbreviated Resettlement Action Plan (ARAP) and safeguard requirements of the World Bank.

Based on the consultations and field assessment, significant livelihood impacts are not anticipated, as the trench width will remain limited and the street width along the pipeline alignment is sufficient to allow essential pedestrian movement and access to nearby shops and residences. Nevertheless, the project team will continue to monitor the situation during

implementation and address any temporary impacts in accordance with the approved safeguard framework.

The stakeholders consulted during the field visit are listed below:

S. No.	Date	Shop / Business / Resident	Name	Designation
1	6/4/2026	LPG Gas Shop	Iftikhar Hussain	Owner
2	6/4/2026	Scrap Shop	Ahtisham	Owner
3	6/4/2026	Joseph General Store	Joseph Jaleel	Owner
4	6/4/2026	Aslam General Store	Aslam Hayat	Owner
5	6/4/2026	Shamoon General Store	Shamoon	Owner
6	6/4/2026	Tahir Abbasi General Store	Hussain Dad	Owner
7	6/4/2026	Scrap Shop	Anwar	Owner
8	6/4/2026	Tobacco Stall	Noel Victor	Owner
9	6/4/2026	Azeem Communication	Haider	Owner
10	6/4/2026	Perwaiz Khokha	Perwaiz	Owner
11	6/4/2026	Fries Cart	Saeed Khan	Owner
12	6/4/2026	Emanuel General Store	Emanuel	Owner
13	6/4/2026	Cart	Shahid Ali	Owner

Some photographs of consultation are as follows:



8. Conclusion

This Environmental and Social Screening Report for the additional sewer works confirms that the anticipated environmental and social impacts associated with the proposed activities in Essa Nagri Street No. 04 are limited in scale, temporary in nature, and manageable through the implementation of appropriate mitigation measures.

The proposed works involve manual excavation within the existing street right-of-way for the installation of a sewer pipeline and do not involve land acquisition, physical displacement, or impacts on environmentally sensitive areas. Potential impacts are primarily related to temporary disturbances such as dust generation, localized access constraints, and short-term community inconvenience during construction. These impacts are expected to remain low to moderate in significance and reversible.

Based on the screening assessment and stakeholder consultations with local residents and shopkeepers, significant livelihood impacts are not anticipated. However, 13 PAPs are identified that will face temporary business disturbance and they will be provided with the appropriate compensation in accordance with the project's ARAP.

The existing Environmental and Social Management Plan prepared for the sub-project remains applicable. This screening report serves as an addendum to extend the ESMP coverage to the additional sewer works, ensuring that all relevant environmental and social safeguards are addressed.

Implementation of the additional works will therefore be undertaken in compliance with the approved ESMP, this E&S Screening Report, the updated Contractor's Environmental and Social Management Plan, and the applicable safeguard requirements of the World Bank, with monitoring and oversight by the Project Implementation Unit and the supervision consultants.