Karachi Water & Sewerage Services Improvement Project
(Project Implementation Unit)
Karachi Water & Sewerage Corporation
40-G, Street 40, Block 6 PECHS, Karachi. Pakistan
Telephone: +92-21-34374081, +92-21-99330279

Second Karachi Water & Sewerage Services Improvement Project (KWSSIP-2)

Project No.: *P171422*

RFB No: PK-PIU KWSSIP 2-527597-CW-RFB

ADDENDUM-2

With reference to **Second** Karachi Water & Sewerage Services Improvement Project (KWSSIP-2), Request for Bids No. INF/KRY/ 3502/2026 for "*K-IV Augmentation Works - Laying of MS Pipelines*" published on August 13, 2026. Amendment-2 is issued in accordance with the Section-I (Instruction to Bidders), Clause 8 of the bidding documents. The same may be treated as integral part of the bidding documents issued for the aforementioned activity.

The bidding documents along with the relevant sections has been updated on the KWSSIP-2 website www.kwssip.gos.pk. The updated documents include;

1. Volume 1: Prime Document
2. Volume 2: Bill of Quantities (BOQ) for all 4 lots.
3. Volume 3: Technical Specifications

Details of the amendments are enclosed. All interested bidders are requested to download the new version.

PROJECT DIRECTOR

KWSSIP-2

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1. PART 1 – Bidding Procedures – Section II: Bid Data Sheet (BDS).

Clause/ Page	Existing Provision	To be Read As
ITB 11.2 (h) Page 45	The Bidder shall submit the following additional documents in the Technical Part of its Bid: **Code of Conduct for Contractor's Personnel (ES)** The Bidder shall submit its Code of Conduct that will apply to Contractor's Personnel (as defined in Sub-Clause 1.1.17 of the General Conditions of Contract), to ensure compliance with the Contractor's Environmental and Social (ES) obligations under the Contract. The Bidder shall use for this purpose the Code of Conduct form provided in Section IV. No substantial modifications shall be made to this form, except that the Bidder may introduce additional requirements, including as necessary to take into account specific Contract issues/risks. In addition, the Tenderer shall detail how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches. The Contractor shall be required to implement the agreed Code of Conduct. **Management Strategies and Implementation Plans (MSIP) to manage the (ES) risks** The Bidder shall submit Management Strategies and Implementation Plans (MSIPs) to manage the following key Environmental and Social (ES) risks and opportunities, in compliance with the specifications as well as the Environmental Code of Practices and Environmental and Social Management Plan as defined in the ESIA and in the Addendum I of ESIA of K-IV Augmentation Works (2.7km Common Corridor with KBRT) including:	The Bidder shall submit the following additional documents in the Technical Part of its Bid: **Code of Conduct for Contractor's Personnel (ES)** The Bidder shall submit its Code of Conduct that will apply to Contractor / Sub-contractor's Personnel (as defined in Sub-Clause 1.1.17 of the General Conditions of Contract), to ensure compliance with the Contractor's Environmental and Social (ES) obligations under the Contract. The Bidder shall use for this purpose; the Code of Conduct form provided in Section IV. No substantial modifications shall be made to this form, except that the Bidder may introduce additional requirements, including as necessary to take into account specific Contract issues/risks. In addition, the Tenderer shall detail how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches. The Contractor shall be required to implement the agreed Code of Conduct. **Management Strategies and Implementation Plans (MSIP) to manage the (ES) risks** The Bidder shall submit Management Strategies and Implementation Plans (MSIPs) to manage the following key Environmental and Social (ES) risks and opportunities, in compliance with the specifications as well as the Environmental Code of Practices and Environmental and Social Management Plan as defined in the ESIA / Addendum I of ESIA of K-IV Augmentation Works (2.7km Common Corridor with KBRT) including:

	• Ensuring that no area impacted by previous Anti-Encroachment-Drive is utilized for these works, storage of materials, transportation. • Noise and air pollution from construction works and traffic • Impact on haulage traffic on local communities • Proper handling, storage, treatment, transport and disposal of silt collected as the result of desilting works • Generation of employment in the local area **Health and Safety Policy** The Bidder, and in the case of a JV, each Partner, shall submit with its Bid, the company's Health and Safety Policy signed by the managing director or chairman of the company • Management strategies to implement the conditions mentioned in the environmental approval / NOC issued by the Sindh Environmental Protection Agency (SEPA); • Gender based violence and Sexual Exploitation and Abuse (GBV/SEA) prevention and response action plan; • Traffic Management Plan to ensure safety of local communities from construction traffic; • Occupational and community health & Safety Plan for ensuring the safety of workers & communities; • Boundary Marking and Protection Strategy for mobilization and construction to prevent offsite adverse impacts & waste management plan; • Strategy for obtaining Consents/Permits prior to the start of relevant works such as opening a quarry or borrow pit, if so required; The Bidder shall be required to submit for approval and subsequently implement, the Contractor's Environment and Social Management Plan (C ESMP) including all relevant plans as mentioned in ESIA/ESMP and in the Addendum I of ESIA such as	• Ensuring that no area impacted by previous Anti-Encroachment-Drive is utilized for these works, storage of materials, transportation. • Noise and air pollution from construction works and traffic • Impact on haulage traffic on local communities • Proper handling, storage, treatment, transport and disposal of silt collected as the result of desilting works • Generation of employment in the local area **Health and Safety Policy** The Bidder, and in the case of a JV, each Partner, shall submit with its Bid, the company's Health and Safety Policy signed by the managing director or chairman of the company. • Management strategies to implement the conditions mentioned in the environmental approval / NOC issued by the Sindh Environmental Protection Agency (SEPA); • Gender based violence and Sexual Exploitation and Abuse (GBV/SEA) prevention and response action plan; • Traffic Management Plan to ensure safety of local communities from construction traffic; • Occupational and community health & Safety Plan for ensuring the safety of workers & communities; • Boundary Marking and Protection Strategy for mobilization and construction to prevent offsite adverse impacts & waste management plan; • Strategy for obtaining Consents/Permits prior to the start of relevant works such as opening a quarry or borrow pit, if so required; • **The Bidder shall submit safe work methodology along-with Risk Assessment and Safe Operating Procedures for all construction activities including but not limited to; Deep Trench Excavation, Confined Space**

	Resources Conservation Plan, Tree Plantation Plan, Waste Management Plan, Slurry Management Plan, Sanitation Plan, Traffic Management Plan, Chance Finds Procedure, Emergency Preparedness and Response Plan, Occupational Health and Safety Plan and ESCP (disclosed on KWSSIP website) and Implementation Plans as described there as well as in the E&S documents (ESIA/ESMP, LMP, SEP, RAP etc.) and the NOC/ Environmental Approval issued by the SEPA	**Entry, Welding Activities, Pipe Laying, Third-party Testing, Compaction and Backfilling, repair and restoration of damaged utilities etc.** • **The Bidder shall submit details of Site-Offices and Labor Campsites establishment along-with housekeeping, liquid & solid waste management procedures.** • **The Bidder shall submit Security Management Plan covering details on security management throughout the site including but not limited to details on locations for the installation of CCTV Cameras, deployment of Security Guards and Flagman etc.** The Bidder shall be required to submit for approval and subsequently implement, the Contractor's Environment and Social Management Plan (CESMP) including all relevant plans as mentioned in ESIA / ESMP, ESIA Addendum and ESIA Addendum-1 such as Resources Conservation Plan, Tree Plantation Plan, Waste Management Plan, Slurry Management Plan, Sanitation Plan, Traffic Management Plan, Chance Finds Procedure, Emergency Preparedness and Response Plan, Occupational Health and Safety Plan and ESCP (disclosed on KWSSIP website) and Implementation Plans as described there as well as in the E&S documents (ESIA/ ESIA Addendum/ESMP, LMP, SEP, RAP etc.) and the NOC/ Environmental Approval issued by the SEPA
ITB 32.2 Page 49	The weight to be given for Rated Criteria (including technical and non-price factors) is: **50%** The technical factors (and sub-factors if any), which for purposes of this document carry the same meaning as Rated Criteria, and the corresponding weight in % are: **Technical Factors** — **Weights in percentage**	The weight to be given for Rated Criteria (including technical and non-price factors) is: **50%** The technical factors (and sub-factors if any), which for purposes of this document carry the same meaning as Rated Criteria, and the corresponding weight in % are: **The technical factors (sub-factors) and the corresponding weights out of 100% are:**

(sub-factors weights in percentage)	(%)
A. Environment, Social, Health & Safety (ESHS)	**20**
A1. ESHS Methodology	**10**
i. Contractor's ESMP (CESMP)	*5*
ii. Compliance with ESHS Specifications with proper modus operandi on how compliance will be accomplished.	*3*
iii. Organization of ESMP follow up	*2*
A2. Traffic Management	***10***
i. Traffic Control Planning & Site Access Management	*4*
ii. Safety Measures & Signages. Provide details, visual mockups and information dissemination)	*4*
iii. *Temporary Infrastructure*	*2*
B. Methodology for delivering the Project	**40**
B1. Work Program	**10**
i. Detailed activity sequencing	*3*
ii. Critical path identification	*2*
iii. Resource allocation timeline	*3*
iv. Milestone definition in response and compliance to the applicable timelines.	*2*

Technical Factors	Weights in percentage
(sub-factors weights in percentage)	**(%)**
A. Environment, Social, Health & Safety (ESHS)	**20**
A1. ESHS Methodology	**10**
i. Contractor's ESMP (CESMP)	5
ii. Compliance with ESHS (including OHS and CHS) Specifications with proper modus operandi on how compliance will be accomplished.	3
iii. Organization of ESMP follow up *including GRM implementation*	2
A2. Traffic Management	***10***
i. Traffic Control Planning & Site Access Management / Hard Barricading	4
ii. Safety Measures & Signages. Provide details, visual mockups and information dissemination	4
iii. *Temporary Infrastructure*	2
B. Methodology for delivering the Project	**40**
B1. Work Program	**10**
i. Detailed activity sequencing	3
ii. Critical path identification	2
iii. Resource allocation timeline	3
iv. Milestone definition in response and compliance to the applicable timelines.	2

B2. Site Organization	**5**
i. General consistent and suitability of the organization. Include year of incorporation, geographic presence, staff availability, number of permanent and contractual staff.	*2*
ii. Means and methodology to limit the impact during the works.	*2*
iii. In particular means and resource to protect the flood sites during works.	*1*
B3. Method Statement for construction activities (and design, if any)	**20**
Construction Methods	**10**
i. Utilities identification methodology.	*2*
ii. Pipe laying techniques and Jointing procedures (Welding)	*4*
iii. Thrust block installation	*0.5*
iv. Backfilling methodology	*0.5*
v. Pressure testing protocols	*0.5*
vi. Strategy for protection and shifting of public utility services	*2.5*
Quality Control Procedures	***4***
i. Material testing methods	*2*
ii. Welding inspection procedures	*1*

B2. Site Organization	**5**
i. General consistent and suitability of the organization. Include year of incorporation, geographic presence, staff availability, number of permanent and contractual staff.	2
ii. Means and methodology to limit the impact during the works including but not limited to use of trench boxes, slope protection through bracings / shoring and best practices such as confined space work / safety protocols.	2
iii. In particular means and resource to protect the flood sites during works, holidays, rainy season, heat-waves and other climate related hazards.	1
B3. Method Statement for construction activities (and design, if any)	**20**
Design Methodology (utility crossings)	**1**
Construction Methods	**11**
i. Utilities identification methodology.	*2.5*
ii. Pipe laying techniques and Jointing procedures (Welding)	*4.5*
iii. Thrust block installation	*0.5*
iv. Backfilling methodology	*0.5*
v. Pressure testing protocols	*0.5*
vi. Strategy for protection and shifting of public utility services	*2.5*
Quality Control Procedures	**2**
i. Material testing methods	*0.75*
ii. Welding inspection procedures	*0.5*

iii. Alignment control measures	*0.5*
iv. Documentation systems	*0.5*
Site Management	**1**
i. Layout of temporary facilities	*0.5*
ii. Material storage arrangements	*0.5*
Technical solutions	**5**
i. Crossing techniques (roads/utilities)	*2*
ii. Dewatering/lowering of groundwater methods	*1*
iii. Ground stabilization approach (shoring etc.)	*1*
iv. Connection to existing network	*1*
B4. Thrust Boring methodology	**5**
i. Optimization of design and material	*2*
ii. Field investigation, optimization of the alignment and Entrance/exit pits	*1*
iii. Drawings-layout and profiles	*1*
iv. Minimization of working spaces (temporary works) & disturbance during works	*1*
C. Construction Material Quality	**40**
C1. Original manufacturer datasheets for:	**10**
i. Pipes	3
ii. Valves	3

iii. Alignment control measures	*0.5*
iv. Documentation systems	*0.25*
Site Management	**1**
i. Layout of temporary facilities including labor rest areas, lavatories	*0.5*
ii. Housekeeping including material storage arrangements	*0.5*
Technical solutions	**5**
i. Crossing techniques (roads/utilities)	*2*
ii. Dewatering/lowering of groundwater methods	*1*
iii. Ground stabilization approach (shoring, bracing, soldier piling etc.)	*1*
iv. Connection to existing network	*1*
B4. Thrust Boring methodology	**5**
i. Optimization of design and material	2
ii. Field investigation, optimization of the alignment and Entrance/exit pits	1
iii. Drawings-layout and profiles	1
iv. Minimization of working spaces (temporary works) & disturbance during works	1
C. Construction Material Quality	**40**
C1. Original manufacturer datasheets for:	**10**
i. Pipes	3
ii. Valves	3

iii. Coating/lining systems	2
iv. Jointing materials	1
v. any other	1
C2. Proposed Testing & Acceptance Criteria:	**8**
i. Internal/External Coating DFT	2
ii. Holiday test	1
iii. Material tests	2
iv. Welding Procedure Specifications	2
v. any other	1
C3. Proposed Testing & Acceptance Criteria.	**8**
Internal/External Coating DFT	8
C4. Sample QA/QC Formats & Inspection Checklists	**8**
1. Material inspection report	1
2. Coating inspection checklist	2
3. Pipe installation checklist	2
4. Inspection checklist for all activities	1
5. Factory Acceptance Test report format for valves, flow meter. Etc.	1
6. any other	1
C5. Deviations & Value Engineering	**6**
i. Clearly listed deviations from specs (if any)	1
ii. Technical justification + impact analysis	3
iii. Proposed alternatives (if better)	2

iii. Coating/lining systems	2
iv. Jointing materials	1
v. any other	1
C2. Proposed Testing & Acceptance Criteria:	**8**
i. Internal/External Coating DFT	2
ii. Holiday test	1
iii. Material tests	2
iv. Welding Procedure Specifications	2
v. any other	1
C3. Proposed Testing & Acceptance Criteria.	**8**
Internal/External Coating DFT	8
C4. Sample QA/QC Formats & Inspection Checklists	**8**
i. Material inspection report	1
ii. Coating inspection checklist	2
iii. Pipe installation checklist	2
iv. Inspection checklist for all activities	1
v. Factory Acceptance Test report format for valves, flow meter. Etc.	1
vi. any other	1
C5. Deviations & Value Engineering	**6**
i. Clearly listed deviations from specs (if any)	1
ii. Technical justification + impact analysis	3
iii. Proposed alternatives (if better)	2

	Note: The scores against each factor/sub-factor shall be assigned in accordance with methodology stipulated in Section-III. The evaluation shall refer to the information in Submission Requirement: Section IV – Bidding Forms, Appendix to Technical Part of Bid.	**Note:** The scores against each factor/sub-factor shall be assigned in accordance with methodology stipulated in Section-III. The evaluation shall refer to the information in Submission Requirement: Section IV – Bidding Forms, Appendix to Technical Part of Bid.

2. PART 1 – Bidding Procedures – Section IV: Bidding Forms

Clause / Heading/ Page	Provision
Code Of Conduct for Contractor's Personnel Page 87	The Code of Conduct for Contractor's Personnel (ES) Form attached at Part 1 of bidding procedure Section IV is revised and attached as Annexure-A.

3. PART 2 – Works Requirements – Section VII: WR

Section / Clause / Heading	Existing Provision	To be replaced with
Livelihood Impacts. Page 158	**Livelihood Impacts**: Construction works within the Right of Way may temporarily affect roadside vendors and small businesses through restricted access or temporary disruption of economic activities. RP needs to be implemented in true letter and spirit to reduce livelihood impacts.	Construction works within the Right of Way may temporarily affect roadside vendors and small businesses through restricted access or temporary disruption of economic activities. RP needs to be implemented in true letter and spirit to reduce livelihood impacts. The PIU shall provide compensation to Project Affected Persons (PAPs) for temporary business income loss for a period of up to three (3) months, in accordance with the approved Resettlement Plan (RP). Where the period of disruption exceeds three (3) months due to delays attributable to the Contractor, including failure to comply with the Contract, failure to implement the approved work programme, or other Contractor-caused delays, the Contractor shall be responsible for payment of additional compensation for the extended period. Such compensation shall be paid on a pro rata basis for the actual number of days of additional disruption, using the

		prevailing minimum wage rate (or such other rate specified in the approved RP, where applicable).
ESHS Staffing: **Page 160**	The Contractor shall appoint qualified ESHS personnel as per the provisions of ESIA / ESMP / bidding documents, including: **Environmental Specialist:** To ensure compliance with environmental standards. **OHS Specialist:** Responsible for workplace / community safety. **Social Expert:** Supervise all social safeguards related activities (e,g community-related issues, stakeholders' engagement, handling GBV / SEA/ SH issues and manage grievance mechanisms, etc.) at site as per E&S instruments. Prepare inputs for periodic environmental monitoring reports. **Medical Officer:** To provide immediate first aid and medical support. **OHS Officers:** Responsible for workplace / community safety. **Social** / Community Liaison / Communication **Officers:** To address community-related issue, carry out stakeholders' engagement, handling GBV / SEA / SH issues and manage grievance mechanisms. **Gender Officer:** Responsible for ensuring gender-inclusive planning, implementation, and monitoring of project activities while promoting equitable participation and safeguarding against gender-based risks.	The Contractor shall appoint qualified ESHS personnel as per the provisions of ESIA / ESMP / bidding documents, including: **Environmental Specialist:** To ensure compliance with environmental standards. **OHS Specialist:** Responsible for workplace / community safety. **Social Expert:** Supervise all social safeguards related activities (e,g community-related issues, stakeholders' engagement, handling GBV / SEA / SH issues and manage grievance mechanisms, etc.) at site as per E&S instruments. Prepare inputs for periodic environmental monitoring reports. **Medical Officer:** To provide immediate first aid and medical support. **OHS Officers:** Responsible for workplace / community safety. **Social / Community Liaison / Communication Officers:** To address community-related issue, carry out stakeholders' engagement, handling GBV / SEA / SH issues and manage grievance mechanisms. **Gender Officer:** Responsible for ensuring gender-inclusive planning, implementation, and monitoring of project activities while promoting equitable participation and safeguarding against gender-based risks. **Flagman:** Responsible for regulating and directing vehicular and pedestrian traffic around construction and excavation areas, maintaining safe access routes, implementing traffic management measures, and protecting workers, road users, and the public from construction-related hazards. **Security Guard / Watchman:** Responsible for safeguarding personnel, equipment, materials, and project assets, controlling access to the construction site, preventing unauthorized entry, conducting routine security patrols, maintaining

		visitor records, and promptly reporting security incidents to the Contractor and relevant authorities.
Environmental and Social Obligations of the Contractor Page 164	The Contractor shall comply with all applicable environmental and social requirements outlined in the **ESIA,** and the Addendum I of ESIA, **ESMP, Labor Management Procedures (LMP), Stakeholder Engagement Plan (SEP)**, relevant national regulations, and applicable World Bank Environmental and Social Standards. Prior to commencement of works, the Contractor shall prepare and submit for approval a **Contractor's Environmental and Social Management Plan (CESMP)** consistent with the ESMP. The CESMP shall include site-specific procedures to manage environmental and social risks during construction. The Contractor shall implement measures to ensure **occupational health and safety of workers**, including provision of appropriate personal protective equipment, safety training, safe excavation practices, and emergency preparedness procedures. Hazardous materials, including asbestos if encountered, shall be handled in accordance with applicable safety standards. The Contractor shall describe in the Health and Safety Plan the PPE to be used per activity. Contractor has to ensure adequate quantities of PPE shall be available on the Project Areas. The Contractor shall implement the **Labor Management Procedures**, including prohibition of child and forced labor, provision of fair working conditions, enforcement of a worker Code of Conduct addressing GBV and SEA/SH risks, and establishment of a worker grievance mechanism. The Contractor shall implement measures to control **dust, noise, emissions, waste generation, and wastewater discharge**, and shall prevent	The Contractor shall comply with all applicable environmental and social requirements outlined in the **ESIA, ESIA Addendum, ESMP, Labor Management Procedures (LMP), Stakeholder Engagement Plan (SEP)**, relevant national regulations, and applicable World Bank Environmental and Social Standards. Prior to commencement of works, the Contractor shall prepare and submit for approval a **Contractor's Environmental and Social Management Plan (CESMP)** consistent with the ESMP. The CESMP shall include site-specific procedures to manage environmental and social risks during construction. The Contractor shall implement measures to ensure **occupational health and safety of workers**, including provision of appropriate personal protective equipment, safety training, safe excavation practices, and emergency preparedness procedures. Hazardous materials, including asbestos if encountered, shall be handled in accordance with applicable safety standards. The Contractor shall describe in the Health and Safety Plan the PPE to be used per activity. Contractor has to ensure adequate quantities of PPE shall be available on the Project Areas. The Contractor shall implement the **Labor Management Procedures**, including prohibition of child and forced labor, provision of fair working conditions, enforcement of a worker Code of Conduct addressing GBV and SEA/SH risks, and establishment of a worker grievance mechanism. The Contractor shall implement measures to control **dust, noise, emissions, waste generation, and wastewater discharge**, and shall prevent contamination of soil and

	contamination of soil and water resources. Proper storage, handling, and disposal of construction materials and wastes shall be ensured.	water resources. Proper storage, handling, and disposal of construction materials and wastes shall be ensured. The Contractor shall implement measures to ensure **community health and safety**, including installation of warning signs, barricades, and traffic control measures, and shall maintain safe access to residences, businesses, mosques, and other community facilities during construction. Prior to excavation, the Contractor shall identify and coordinate with relevant authorities regarding the location of existing **gas, electricity, water supply, sewerage, storm water, and telecommunication utilities**. Safe excavation practices shall be followed to prevent damage to these utilities. In case of accidental damage, the Contractor shall immediately notify the relevant authorities and take necessary measures for safe and timely restoration. The Contractor shall minimize tree removal where possible and comply with requirements related to **tree cutting and compensatory plantation** in coordination with relevant authorities. In the event that **cultural heritage resources or archaeological materials** are encountered during excavation, the Contractor shall suspend works in the affected area and implement the **Chance Find Procedure**. The Contractor shall support implementation of the **Stakeholder Engagement Plan** and coordinate with the project **Grievance Redress Mechanism (GRM)** to address complaints from workers and affected communities. The Contractor shall monitor environmental and social performance and submit periodic reports to the Engineer/PIU in accordance with project requirements.

Supplementary information related to Scope of Work under the Contract: Page 162	**Clause Title**	**Remarks**	**Clause Title**	**Remarks**
	Contractor's General Obligations	If the Contract specifies that the Contractor shall design any part of the Permanent Works, state any applicable standards and requirements to address: • climate change considerations, • universal access, • risks of the public's potential exposure to operational accidents or natural hazards, including extreme weather events, and • applicable certification or approval requirements.	Contractor's General Obligations	If the Contract specifies that the Contractor shall design any part of the Permanent Works, state any applicable standards and requirements to address: • climate change considerations, • universal access, • risks of the public's potential exposure to operational accidents or natural hazards, including extreme weather events, and • applicable certification or approval requirements.
	Co-operation	Indicate specific aspects (if any) that require contractor's cooperation such as to conduct environmental and social assessment.	Co-operation	Indicate specific aspects (if any) that require contractor's cooperation such as to conduct environmental and social assessment.
	Health and Safety Obligations	Indicate other requirements for the health and safety manual of the Contractor, if any. i. The Contractor shall follow Sindh Occupational Safety and Health Act 2017, comply with safety regulations, ensure site safety, good house-keeping, minimize obstructions, and provide fencing, lighting, guarding, and site security until project completion. ii. The Contractor shall implement Labor Management Procedures (LMP), covering working conditions, worker relationships, OHS, emergency preparedness, code of conduct (including SEA/SH), forced and child labor, grievances, and subcontractor compliance. iii. The Contractor shall prepare and implement site-specific OHS/CHS management plans aligned	Health and Safety Obligations	Indicate other requirements for the health and safety manual of the Contractor, if any. i. The Contractor shall follow Sindh Occupational Safety and Health Act 2017, comply with safety regulations, ensure site safety, good house-keeping, minimize obstructions, and provide fencing, lighting, guarding, and site security until project completion. ii. The Contractor shall implement Labor Management Procedures (LMP), covering working conditions, worker relationships, OHS, emergency preparedness, code of conduct (including SEA/SH), forced and child labor, grievances, and subcontractor compliance. iii. The Contractor shall prepare and implement site-

	with the LMP, ESIA and the Addendum I of ESIA, and ESMP before construction begins. iv. The Contractor shall maintain health and safety for personnel, ensure access to medical staff, first aid, and ambulance services (dedicated availability of 1 No. ambulance on site at each Lot), and provide welfare and hygiene facilities to prevent epidemics. v. The Contractor shall develop and conduct monthly training programs for workers on environmental, social, and OHS risks and responsibilities before commencing work on-site. vi. The Contractor shall conduct Toolbar Talks (TBT) before start of work daily.
Access Route	Indicate national aspects e.g., refer to "National Highways and Motorways (Dimensions of Goods Transport Vehicles) Rules, 2017; notified under National Highways Safety Ordinance, 2000.
Protection of the Environment	Specify any values for emissions, surface discharges, effluent and any other pollutants from the Contractor's activities that shall not be exceeded. *i.* The Contractor shall take all necessary measures to protect the environment in line with the project's ESIA and the Addendum I of ESIA and ESMP requirements, minimizing pollution, noise, and other nuisances to people and property. *ii.* The Contractor shall ensure that emissions, discharges, and effluents from activities do not exceed the limits specified in the Sindh Environmental Quality Standards (SEQS) 2016.
Security of	Indicate other requirements for the security

	specific OHS/CHS management plans aligned with the LMP, ESIA, ESIA Addendum and ESMP before construction begins. iv. The Contractor shall maintain health and safety for personnel, ensure access to medical staff, first aid, and ambulance services (dedicated availability of 1 No. ambulance on site at each Lot), and provide welfare and hygiene facilities to prevent epidemics. v. The Contractor shall develop and conduct monthly training programs for workers on environmental, social, and OHS risks and responsibilities before commencing work on-site. vi. The Contractor shall conduct Toolbar Talks (TBT) before start of work daily.
Access Route	Indicate national aspects e.g., refer to "National Highways and Motorways (Dimensions of Goods Transport Vehicles) Rules, 2017; notified under National Highways Safety Ordinance, 2000.

	the Site	arrangements, if any.	Protection of the Environment	Specify any values for emissions, surface discharges, effluent and any other pollutants from the Contractor's activities that shall not be exceeded. *iii.* The Contractor shall take all necessary measures to protect the environment in line with the project's ESIA, ESIA Addendum and ESMP requirements, minimizing pollution, noise, and other nuisances to people and property. *iv.* The Contractor shall ensure that emissions, discharges, and effluents from activities do not exceed the limits specified in the Sindh Environmental Quality Standards (SEQS) 2016.
	Archeological and Geological Findings	Specify other requirements, if any.	Security of the Site	Indicate other requirements for the security arrangements, if any.
	Facilities for Staff and Labor	Indicate if access to or provision of services that accommodate physical, social and cultural needs of Contractor's Personnel is required.	Archeological and Geological Findings	Specify other requirements, if any.
	Training of Contractor's Personnel	Specify other requirements, if any.	Facilities for Staff and Labor	Indicate if access to or provision of services that accommodate physical, social and cultural needs of Contractor's Personnel is required.
			Training of Contractor's Personnel	Specify other requirements, if any.
Emergency Preparedness	Following is added in Part 2 works requirements ESHS management plan		**Emergency Preparedness and Response Plan (EPRP):** A site-specific plan prepared by the Contractor as part of the Contractor's	

and Response Plan (EPRP): Page 167		Environmental and Social Management Plan (CESMP), outlining the procedures, responsibilities, resources, and communication arrangements for preventing, responding to, and managing emergency situations that may arise during project implementation. The EPRP shall address potential emergencies such as fire, hazardous material spills, medical emergencies, structural collapse, flooding, traffic accidents, security incidents, and natural disasters, and shall include emergency response procedures, evacuation arrangements, emergency contact information, training, and periodic mock drills.
1.2.2 Contractor's Obligation and Management Page 173	The contractor will be primarily responsible in ensuring the implementation of the mitigation measures proposed in the ESIA and the Addendum I of ESIA including ESMP. The provision of providing employment to the local people will be ensured in contract agreement and the contractor will prepare a Local Employment Plan within one month of award of contact for its implementation. • The requisite content of this ESMP will be incorporated in the bidding documents and this ESIA and the Addendum I of ESIA including ESMP will become a part of the contractor's contract documents. • In addition to this, the contractor will be responsible for the preparation and implementation of site specific ESMP also called as Contractor 's ESMP, along with all the sub-plans based on the guidelines provided in this ESIA and the Addendum I of ESIA, with prior approval from SC and PIU KWSSIP- -2.	The contractor will be primarily responsible in ensuring the implementation of the mitigation measures proposed in the ESIA, **ESIA Addendum** including ESMP. The provision of providing employment to the local people will be ensured in contract agreement and the contractor will prepare a Local Employment Plan within one month of award of contact for its implementation. • The requisite content of this ESMP will be incorporated in the bidding documents and the ESIA / **ESIA Addendum** including ESMP will become a part of the contractor's contract documents. • In addition to this, the contractor will be responsible for the preparation and implementation of site specific ESMP also called as Contractor 's ESMP, along with all the sub-plans based on the guidelines provided in the ESIA / **ESIA Addendum** with prior approval from SC and PIU KWSSIP- -2.

4. PART 3 – Conditions of Contract – Section IX: PC

Section / Clause / Heading	Clause	To be replaced with
Contract Data **Clause 2.1** Page 239	Time for Access of site Sub Clause 2.1 is replaced with the following	The Employer shall give the Contractor right of access to, and possession of, the Site in parts in accordance with a section-wise handing-over plan i.e. the Site shall be handed over to the Contractor in defined sections, each not exceeding a maximum length of 3 km and no more than Two (02) segments shall be handed over to the Contractor simultaneously. The Section wise handing-over plan shall be notified to the Contractor before commencement of Works and the Contractor shall carry out the Works in compliance with such plan, without any adjustment to the Time for Completion and submit the Programme under GC Clause 8.3 accordingly.
Contract Data **Clause 13.4 (b)(ii)** Page 241	Percentage rate to be applied to Provisional Sums for overhead charges and profit is replaced with the following	Five Percent (5%) that includes profit, overhead and all the applicable taxes as per the Contract, except for DAAB fee. Taxes will not be deducted on actual cost paid to the third party and has been evaluated as reimbursable.
Contract Data **Clause 14.8** Page 243	Financing charges for delayed payment (percentage points above the average bank short-term lending rate as referred to under sub-paragraph (a)) is replaced.	The applicable interest rate shall be determined with reference to the currency of payment. For payments denominated in Pakistani Rupees (PKR), the rate shall be the 30-Day Average KIBOR, as published by the State Bank of Pakistan, plus one percent (1%) per annum for the month of payment. KIBOR + 1% for local currency For payments denominated in foreign currency, the rate shall be the 30-Day Average SOFR, as published by the Federal Reserve Bank of New York, plus one percent (1%) per annum. SOFR + 1% for USD

Special Provisions **Sub-Clause 4.1** **Contractor's General Obligations** Page 263	The following is inserted after the paragraph "The Contractor shall execute the Works…": "The Contractor shall not post and shall ensure that its Subcontractors/ suppliers/ manufacturers and Contractors' Personnel shall not post, any signage on the Site, or in any other place where the Works will be carried out, except such signage as is required under the Contract, including by the Laws of the Country, or has been approved by the Employer. For the purposes of this sub-clause, signage shall include, inter alia, flags, billboards, advertising materials and any other similar item separately posted on the Site." The following is inserted after the paragraph "The Contractor shall provide the Plant (and spare parts, if any) …": "All equipment, material, and services to be incorporated in or required for the Works shall have their origin in any eligible source country as defined by the Bank." The following is inserted after the paragraph "The Contractor shall, whenever required by the Engineer...": "The Contractor shall not carry out mobilization to Site (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits) unless the Engineer gives a Notice of No-objection to the Contractor, a Notice that shall not be unreasonably delayed, to the measures the Contractor proposes to manage the environmental and social risks and impacts, which at a minimum shall include applying the Management Strategies and Implementation Plans (MSIPs) and Code of Conduct for Contractor's Personnel submitted as part of the Bid and agreed as part of the Contract. The Contractor shall submit to the Engineer for Review any additional MSIPs as are necessary to manage the ES risks and impacts of ongoing Works (e.g., excavation, earth works, bridge and structure works, stream, and road diversions, quarrying or extraction of materials, concrete batching, and asphalt manufacture). These MSIPs	The following is inserted after the paragraph "The Contractor shall execute the Works…": "The Contractor shall not post and shall ensure that its Subcontractors/ suppliers/ manufacturers and Contractors' Personnel shall not post, any signage on the Site, or in any other place where the Works will be carried out, except such signage as is required under the Contract, including by the Laws of the Country, or has been approved by the Employer. For the purposes of this sub-clause, signage shall include, inter alia, flags, billboards, advertising materials and any other similar item separately posted on the Site." The following is inserted after the paragraph "The Contractor shall provide the Plant (and spare parts, if any) …": "All equipment, material, and services to be incorporated in or required for the Works shall have their origin in any eligible source country as defined by the Bank." The following is inserted after the paragraph "The Contractor shall, whenever required by the Engineer...": "The Contractor shall not carry out mobilization to Site (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits) unless the Engineer gives a Notice of No-objection to the Contractor, a Notice that shall not be unreasonably delayed, to the measures the Contractor proposes to manage the environmental and social risks and impacts, which at a minimum shall include applying the Management Strategies and Implementation Plans (MSIPs) and Code of Conduct for Contractor's Personnel submitted as part of the Bid and agreed as part of the Contract. The Contractor shall submit to the Engineer for Review any additional MSIPs as are necessary to manage the ES risks and impacts of ongoing Works (e.g., excavation, earth works, bridge and structure works, stream, and road diversions, quarrying or extraction of materials, concrete batching, and asphalt manufacture).

	collectively comprise the Contractor's Environmental and Social Management Plan (C ESMP). CESMP shall be submitted within (28 days) of Contract signing and before mobilization, engineer's No Objection required before commencement of work, and periodically (quarterly) updates and update of CESMP upon design changes, new risks, serious incidents is also required. CESMP shall include sub-plans as mentioned in the ESIA/ ESMP. The updated C ESMP shall be submitted to the Engineer for Review. The C ESMP shall be part of the Contractor's Documents. The procedures for Review of the C ESMP and its updates shall be as described in Sub-Clause 4.4.1 *[Preparation and Review]."* The following is added as (g); (g) and (h) of the Sub-Clause are then renumbered as (h) and (i) respectively. "if so stated in the Specification, the Contractor shall: (i) design structural elements of the Works taking into account climate change considerations; (ii) apply the concept of universal access (the concept of universal access means unimpeded access for people of all ages and abilities in different situations and under various circumstances; (iii) consider the incremental risks of the public's potential exposure to operational accidents or natural hazards, including extreme weather events; and (iv) any other requirement stated in the Specification." The following is added at the end of the Sub-Clause: "The Contractor shall provide relevant contract- related information, as the Employer and/or Engineer may reasonably request to conduct Stakeholder engagements. "Stakeholder" refers to individuals or groups who: (i) are affected or likely to be affected by the Contract; and (ii) may have an interest in the Contract.	These MSIPs collectively comprise the Contractor's Environmental and Social Management Plan (CESMP). CESMP shall be submitted within (28 days) of Contract signing and before mobilization, engineer's No Objection required before commencement of work, and periodically (quarterly) updates and update of CESMP upon design changes, new risks, serious incidents is also required. CESMP shall include sub-plans as mentioned in the ESIA/ ESMP / ESIA Addendum. The updated CESMP shall be submitted to the Engineer for Review. The CESMP shall be part of the Contractor's Documents. The procedures for Review of the CESMP and its updates shall be as described in Sub-Clause 4.4.1 *[Preparation and Review]."* The following is added as (g); (g) and (h) of the Sub-Clause are then renumbered as (h) and (i) respectively. "If so, stated in the Specification, the Contractor shall: i. design structural elements of the Works taking into account climate change considerations; ii. apply the concept of universal access (the concept of universal access means unimpeded access for people of all ages and abilities in different situations and under various circumstances; iii. consider the incremental risks of the public's potential exposure to operational accidents or natural hazards, including extreme weather events; and iv. any other requirement stated in the Specification." The following is added at the end of the Sub-Clause: "The Contractor shall provide relevant contract- related information, as the Employer and/or Engineer may reasonably request to conduct Stakeholder engagements. "Stakeholder" refers to individuals or groups who: i. are affected or likely to be affected by the Contract; and ii. may have an interest in the Contract.

	The Contractor shall also directly participate in Stakeholder engagements, as the Employer and/or Engineer may reasonably request. Pursuant to the Contract Data, the Contractor, including its Subcontractors/ suppliers/ manufacturers shall take all technical and organizational measures necessary to protect the information technology systems and data used in connection with the Contract. Without limiting the foregoing, the Contractor, including its Subcontractors/ suppliers/ manufacturers, shall use all reasonable efforts to establish, maintain, implement and comply with, reasonable information technology, information security, cyber security and data protection controls, policies and procedures, including oversight, access controls, encryption, technological and physical safeguards and business continuity/disaster recovery and security plans that are designed to protect against and prevent breach, destruction, loss, unauthorized distribution, use, access, disablement, misappropriation or modification, or other compromise or misuse of or relating to any information technology system or data used in connection with the Contract.	The Contractor shall also directly participate in Stakeholder engagements, as the Employer and/or Engineer may reasonably request. Pursuant to the Contract Data, the Contractor, including its Subcontractors/ suppliers/ manufacturers shall take all technical and organizational measures necessary to protect the information technology systems and data used in connection with the Contract. Without limiting the foregoing, the Contractor, including its Subcontractors/ suppliers/ manufacturers, shall use all reasonable efforts to establish, maintain, implement and comply with, reasonable information technology, information security, cyber security and data protection controls, policies and procedures, including oversight, access controls, encryption, technological and physical safeguards and business continuity/disaster recovery and security plans that are designed to protect against and prevent breach, destruction, loss, unauthorized distribution, use, access, disablement, misappropriation or modification, or other compromise or misuse of or relating to any information technology system or data used in connection with the Contract."
Special Provisions **Sub-Clause 4.8** **Health and Safety Obligations** Page 266	The following are included after deleting "and" at the end of (f) and replacing "." with ";" at the end of (g): " (h) provide health and safety training of Contractor's Personnel as appropriate and maintain training records; (i) actively engage the Contractor's Personnel in promoting understanding, and methods for, implementation of health and safety requirements, as well as in providing information to Contractor's Personnel, and provision of personal protective equipment without expense to the Contractor's Personnel; (j) put in place workplace processes for Contractor's Personnel to report work situations that they believe are not safe or healthy, and to remove	The following are included after deleting "and" at the end of (f) and replacing "." with ";" at the end of (g): " (h) provide health and safety training of Contractor's Personnel as appropriate and maintain training records; (i) actively engage the Contractor's Personnel in promoting understanding, and methods for, implementation of health and safety requirements, as well as in providing information to Contractor's Personnel, and provision of personal protective equipment without expense to the Contractor's Personnel; (j) put in place workplace processes for Contractor's Personnel to report work situations that they believe are not safe or healthy, and to remove

	themselves from a work situation which they have reasonable justification to believe presents an imminent and serious danger to their life or health; (k) Contractor's Personnel who remove themselves from such work situations shall not be required to return to work until necessary remedial action to correct the situation has been taken. Contractor's Personnel shall not be retaliated against or otherwise subject to reprisal or negative action for such reporting or removal; (l) subject to Sub-Clause 4.6, collaborate with the entities and Personnel under paragraph (a) , (b) and (c) of Sub-Clause 4.6, in applying the health and safety requirements. This is without prejudice to the responsibility of the relevant entities for the health and safety of their own personnel; and (m) establish and implement a system for regular (not less than six-monthly) review of health and safety performance and the working environment." The second and third paragraphs are replaced with the following: "Subject to Sub-Clause 4.1, the Contractor shall submit to the Engineer for Review a health and safety manual (as part of CESMP within (28) days of contract signing and get approval before mobilization to site) which has been specifically prepared for the Works, the Site, and other places (if any) where the Contractor intends to execute the Works. The procedures for Review of the health and safety manual and its updates shall be as described in Sub-Clause 4.4.1 *[Preparation and Review]*. The health and safety manual shall be in addition to any other similar document required under applicable health and safety regulations and Laws. The health and safety manual shall set out all the health and safety requirements under the Contract, (a) which shall include at a minimum: (i) the procedures to establish and maintain a safe working environment without risk to health at all workplaces, machinery,	themselves from a work situation which they have reasonable justification to believe presents an imminent and serious danger to their life or health; (k) Contractor's Personnel who remove themselves from such work situations shall not be required to return to work until necessary remedial action to correct the situation has been taken. Contractor's Personnel shall not be retaliated against or otherwise subject to reprisal or negative action for such reporting or removal; (l) subject to Sub-Clause 4.6, collaborate with the entities and Personnel under paragraph (a) , (b) and (c) of Sub-Clause 4.6, in applying the health and safety requirements. This is without prejudice to the responsibility of the relevant entities for the health and safety of their own personnel; and (m) establish and implement a system for regular (not less than six-monthly) review of health and safety performance and the working environment." The second and third paragraphs are replaced with the following: "Subject to Sub-Clause 4.1, the Contractor shall submit to the Engineer for Review a health and safety manual (as part of CESMP within (28) days of contract signing and get approval before mobilization to site) which has been specifically prepared for the Works, the Site, and other places (if any) where the Contractor intends to execute the Works. The procedures for Review of the health and safety manual and its updates shall be as described in Sub-Clause 4.4.1 *[Preparation and Review]*. The health and safety manual shall be in addition to any other similar document required under applicable health and safety regulations and Laws. The health and safety manual shall set out all the health and safety requirements under the Contract, (a) which shall include at a minimum: (i) the procedures to establish and maintain a safe working environment without risk to health at all workplaces, machinery,

	equipment, and processes under the control of the Contractor, including control measures for chemical, physical and biological substances, and agents; (ii) details of the training to be provided, records to be kept; (iii) the procedures for prevention, preparedness, and response activities to be implemented in the case of an emergency event (i.e., an unanticipated incident, arising from both natural and man-made hazards, typically in the form of fire, explosions, leaks, or spills, which may occur for a variety of different reasons including failure to implement operating procedures that are designed to prevent their occurrence, extreme weather, or lack of early warning); (iv) the measures to be taken to avoid or minimize the potential for community exposure to water-borne, water-based, water-related, and vector-borne diseases, (v) the measures to be implemented to avoid or minimize the spread of communicable diseases (including transfer of Sexually Transmitted Diseases or Infections (STDs), such as HIV virus) and non-communicable diseases associated with the execution of the Works, taking into consideration differentiated exposure to and higher sensitivity of vulnerable groups. This includes taking measures to avoid or minimize the transmission of communicable diseases that may be associated with the influx of temporary or permanent Contract-related labour; (vi) the policies and procedures on the management and quality of accommodation and welfare facilities if such accommodation and welfare facilities are provided by the Contractor in accordance with Sub-Clause 6.6; and (b) any other requirements stated in the Specification.	equipment, and processes under the control of the Contractor, including control measures for chemical, physical and biological substances, and agents; (ii) details of the training to be provided, records to be kept; (iii) the procedures for prevention, preparedness, and response activities to be implemented in the case of an emergency event (i.e., an unanticipated incident, arising from both natural and man-made hazards, typically in the form of fire, explosions, leaks, or spills, which may occur for a variety of different reasons including failure to implement operating procedures that are designed to prevent their occurrence, extreme weather, or lack of early warning); (iv) the measures to be taken to avoid or minimize the potential for community exposure to water-borne, water-based, water-related, and vector-borne diseases, (v) the measures to be implemented to avoid or minimize the spread of communicable diseases (including transfer of Sexually Transmitted Diseases or Infections (STDs), such as HIV virus) and non-communicable diseases associated with the execution of the Works, taking into consideration differentiated exposure to and higher sensitivity of vulnerable groups. This includes taking measures to avoid or minimize the transmission of communicable diseases that may be associated with the influx of temporary or permanent Contract-related labour; (vi) the policies and procedures on the management and quality of accommodation and welfare facilities if such accommodation and welfare facilities are provided by the Contractor in accordance with Sub-Clause 6.6; and (b) any other requirements stated in the Specification.

	The paragraph starting with: "In addition to the reporting requirement of…" is deleted and replaced with the addition to GC Sub-Clause 4.20 in Sub-Clause 4.20 of the Special Provisions.	The paragraph starting with: "In addition to the reporting requirement of…" is deleted and replaced with the addition to GC Sub-Clause 4.20 in Sub-Clause 4.20 of the Special Provisions. The following sub-clause is added as 4.8.1: Emergency Preparedness and Response Plan (EPRP) (a) The Contractor shall prepare, implement, maintain, and periodically update a detailed, site-specific Emergency Preparedness and Response Plan (EPRP) as an integral part of the Contractor's Environmental and Social Management Plan (CESMP). The EPRP shall be submitted to the Engineer for review and the Employer for approval within twenty-eight (28) days of the Commencement Date and prior to commencement of any high-risk construction activities. The Contractor shall conduct emergency response drills at least once every six (6) months, or more frequently where required by the Engineer or following significant changes in site conditions. (b) The EPRP shall include, but not be limited to: i. Identification and assessment of potential emergency situations, including fire, fuel or chemical spills, trench or structural collapse, flooding, electrocution, confined space incidents, work at height accidents, traffic accidents, medical emergencies, security incidents, and natural disasters; ii. Emergency organization structure, including roles, responsibilities, and chain of command; iii. Emergency communication procedures, notification hierarchy, and updated emergency contact lists (including site personnel, hospitals, ambulance services, fire brigade, police, and relevant government authorities); iv. Location, inspection, maintenance, and availability of emergency response equipment, including fire extinguishers, spill response kits, first aid facilities, rescue equipment, emergency lighting, and emergency vehicles, where applicable;

		v. Site-specific evacuation procedures, emergency escape routes, assembly points, and personnel accounting procedures; vi. Procedures for emergency response, rescue, incident notification, reporting, investigation, and communication with the Employer, Engineer, and relevant authorities; vii. Training and awareness programs for workers, subcontractors, and relevant personnel regarding emergency response procedures; and viii. Procedures for periodic review and updating of the EPRP based on emergency drills, incidents, lessons learned, and changes in project activities. **(c)** Records of emergency response training, emergency drills, inspections, incidents, corrective actions, and lessons learned shall be maintained by the Contractor and included in the monthlys Environmental, Social, Health and Safety **(ESHS) Progress Report**.
Special Provisions **Clause 8.3** Page 284	Sub Clause 8.3(b) is replaced with the following	The Sub-Clause 8.3(b) is replaced in its entirety with the following; the Section wise handing over plan as stipulated in Sub-Clause 2.1. The Contractor shall divide the Works into sections not exceeding 3 km in length and shall clearly identify the sequence and duration of activities for each section. No more than two (2) sections shall be under execution simultaneously. The Programme shall be developed in compliance with the approved Resettlement Plan.

5. BOQ ITEMS

- Section B of the Bill No. 4 of i.e., ESMP for all packages is to be read as follows.

B-2	**Environmental and Social Management Cost**									
1	1- Environment Specialist (01 No.), Social Expert (01 No.), OHS Specialist (01 No.), Medical Officer (01 No.), OHS Officers (05 Nos.), Social / Community Liaison / Communication Officer (01 No.), Gender Officer (01 No.), Flagman (06 Nos.), Security Guard (06 Nos.)	Implementation and supervision of environmental, social, occupational health and safety (OHS), community health and safety, GRM and labour and gender-related requirements throughout the construction period, including monitoring compliance with the CESMP, OHS Policy and sub-plans; conducting toolbox talks and trainings; ensuring provision and use of appropriate PPE; maintaining housekeeping, hard barricading , traffic management, security arrangements and safety signage; emergency preparedness and response; first aid and medical support; stakeholder engagement, grievance management, SEA/SH and GBV prevention measures; community liaison; access control; deployment of flagmen for traffic and pedestrian safety; site security; inspection, communication material development and dissemination, GRM, monitoring, reporting, record maintenance, and implementation of corrective actions to ensure compliance with contractual, national and World Bank ESF requirements.			Monthly	22				

2	HSE Management	Implementation of Occupational Health and Safety (OHS) measures throughout the construction period, including provision and use of appropriate PPE, housekeeping, safety signages, toolbox talks, inspections, permit-to-work system, incident reporting and investigation, compliance monitoring, emergency preparedness and response, implementation of approved OHS Plans, and provision, installation, maintenance, and removal of all temporary safety arrangements including hard barricades/MS corrugated sheets, rigid barriers, bollards, traffic cones, temporary lighting for night works, Grievance Redress Mechanism (GRM) information boards and signage, deployment of safety personnel, and other measures necessary to ensure the safety of workers, road users, and nearby communities on both sides of the trench, complete in all respects as directed by the Engineer	Lumpsum		

2A	2A- Climate-Appropriate and Task-Specific Personal Protective Equipment (PPE)	Supply, replacement, and maintenance of appropriate PPEs (with branding & nigh-time reflection) for all workers and visitors throughout the construction period, including climate-appropriate PPE such as cooling safety helmets, breathable safety shoes, reflective jackets, gloves, safety goggles, hearing protection, and fall protection & harnessing equipment. In addition, where pipe-laying or excavation activities may expose workers to wastewater due to damage or interception of existing sewer lines, the Contractor shall provide appropriate task-specific PPE, including waterproof/rubber gloves or chemical-resistant gloves, waterproof safety boots, waterproof coveralls or protective suits, safety goggles or face shields, respiratory protection (where required), hand sanitizer, disinfectants, and adequate washing and decontamination facilities to protect workers from biological and chemical hazards and sufficient Site Lighting for Night-time Operations. The Contractor shall ensure proper use, maintenance, and timely replacement of all PPE in accordance with the approved CESMP, OHS Plan, and applicable national and international occupational health and safety standards.	Lumpsum		
2B	2B- Trench and Public Safety Measures	Provision, installation, maintenance and removal upon completion of hard barricades, MS corrugated sheets, rigid barriers, bollards, traffic cones, warning tapes, warning signboards, warning lights, lighting arrangements, battery operated night time reflective lights , cones, flagmen, traffic marshals, trench guards and other safety personnel for protection of workers and public along both sides of trenches and work areas throughout the project alignment, complete in all respects as directed by the Engineer.	Lumpsum		

2C	Heat Stress Management	Implementation of heat stress management measures including provision of potable drinking water, ORS, shaded rest areas, cooling facilities, worker awareness sessions, monitoring and emergency response arrangements during high temperature conditions.	Lumpsum								
2D	Grievance Redress Mechanism (GRM)	Establishment, operation and maintenance of worker and community grievance redress mechanisms including complaint registration, investigation, resolution, record keeping, communication and reporting.	Lumpsum								
3	Traffic Management	Traffic management during road crossing works including a safe and efficient movement of traffic, minimizing disruptions through signage, diversions, and deployment of traffic control personnel, Traffic regulation; establishment, operation and removal Traffic regulation; establishment, operation and removal	Lumpsum								
4	Solid Waste Management	Collecting, segregating, transporting, disposing of, and managing domestic, commercial, and construction wastes (solid)			Monthly	22					
5	Liquid Waste Management	Collecting, segregating, transporting, disposing of, and managing domestic, commercial, and construction wastes (liquid)			Monthly	22					
6	Septic Tanks	Construction of septic tanks for liquid waste management	Lumpsum								
7	Training Cost	Preparation of literature and printing material such as posters & pamphlets and arranging trainer(s), and venue, etc.			Monthly	22					
8	Training Cost (SEA/SH)	Awareness and training sessions for all workers, including subcontractors, on HIV/AIDS, other communicable diseases, and the prevention of Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH). The training shall promote safe health practices, respectful workplace behavior, and gender-sensitive engagement.	Lumpsum								

9	Medical Screening of Contractor's Staff	Conducting medical screening of all staff members at the time of recruitment and annal follow up screening.	Lumpsum		
10	Noise Meter	Procuring of noise meter for ambient noise level monitoring at site as per IEC 61672-1 (Class II).	Lumpsum		
11	Emergency & rescue equipment	Provision of emergency and rescue equipment including but not limited to fire extinguishers, gas detectors, breathers, ladders for access and ingress etc.	Lumpsum		
12	Water Sprinkling	Water sprinkling for dust suppression using water bowsers.	Lumpsum		
13	Potable meter for Particulate Matter testing	Procurement of potable handheld meter for detecting PM in the range of 0 to 1,000 µg/m³ with accuracy of ±10% to ±15% of the reading.	Lumpsum		
14	Vehicle and Generators Fitness Certification and Driving Licensing of heavy vehicles, cranes etc.	Ensure vehicle certification of each vehicle, machinery/equipment, Generators used for the work, licensing of each driver/operator and record maintenance of all such documentation	Lumpsum		
15	Security Management	Procurement and installation of CCTV Cameras (including night vision capabilities) with DVR covering all the active construction sites with online monitoring system.	Lumpsum		
16	Social Compliance	Conducting stakeholder consultations and maintaining a continuous liaison with the community and line departments.	Lumpsum		

- The following item in Bill No. 3 DN 1800 Serial No. 6 is replaced in BOQ of all 4 lots.

Reference	Item	To be replaced with
Bill No. 3 Serial No. 6	Providing and fixing M.S. Pipes including laying, jointing, pressure testing, cleaning, disinfection & commissioning of black steel M.S Pipe made out of M.S sheet confirming to API 5L grade X-42 (Spirally welded) with ERW & Externally 3LPE coating & internally fusion bonded epoxy coating with a minimum Dry Film Thickness (DFT) of 400 - 500 microns as per American water works association (AWWA) Specification and technical specifications, heat shrinkage or alternative, and jointing with helical welding in trenches including all bends i/c cost of all fittings with all flanges and testing with water specified pressure for different dia of pipes as below, including warning tape that shall be 300mm wide, 100 micron thick, blue in color, manufactured in suitable plastic material from an approved supplier. Complete in all respects as per drawings, specifications and Engineer's instruction.	Providing, laying and jointing of Spiral Welded Mild Steel Pipes as per API 5L – PSL2 , grade X42 for various diameters and thicknesses, end-beveled, externally 3LPE coating (shop applied), internally fusion bonded epoxy (FBE) coating with a minimum 400 – 500 microns Dry Film Thickness (DFT) as per AWWA Standard, joint coating with epoxy and heat shrinkable sleeves, the rate included, cutting, welding, and jointing in trenches, including all fittings, tees, any degree of bends and yees, expander/reducer, flanges, gasket, steel nut bolts and washers, ultrasonic or radiographic inspection of welded joints, , hydrostatic testing (sectional and complete testing), disinfection with chlorine, level and grade, warning tape 300mm wide, 100 micron thick, blue in color, complete in all respect as per drawing, technical specification and Engineer's instruction.

Annexure-A

Code of Conduct for Contractor's Personnel (ES) Form

Note to the Bidder:

The minimum content of the Code of Conduct form as set out by the Employer shall not be substantially modified. However, the Bidder may add requirements as appropriate, including to take into account Contract-specific issues/risks.

The Bidder shall initial and submit the Code of Conduct form as part of its bid.

CODE OF CONDUCT FOR CONTRACTOR'S PERSONNEL

We are the Contractor, [*enter name of Contractor*]. We have signed a contract with [*enter name of Employer*] for [*enter description of the Works*]. These Works will be carried out at [*enter the Site and other locations where the Works will be carried out*]. Our contract requires us to implement measures to address environmental and social risks related to the Works, including the risks of sexual exploitation, sexual abuse and sexual harassment.

This Code of Conduct is part of our measures to deal with environmental and social risks related to the Works. It applies to all our staff, labors and other employees of the Contractor and its JV partners at the Works Site or other places where the Works are being carried out. It also applies to the personnel of each Subcontractor, Vendors, Suppliers, Service providers and any other personnel assisting us in the execution of the Works. 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:

- carry out his/her duties competently and diligently;
- 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 including visitors;
- maintain a safe working environment including by:
    a. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health of workers, staff, community, visitors, utilities and infrastructure;

b. wearing required personal protective equipment;

c. using appropriate measures against hazards relating to chemical, physical and biological substances and agents as relevant to the nature of work; and

d. following applicable emergency operating procedures.

- 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;
- treat other people with respect, and not discriminate against specific groups such as women transgender, elderly people, people from any ethnic / religious minority with disabilities, differently-abled persons migrant workers or children;
- not engage in Sexual Harassment, which means unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature with other Contractor's or Employer's Personnel;
- 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;
- not engage in Sexual Abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
- not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
- complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH);
- report violations of this Code of Conduct; and
- 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 Redress 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. Contact [*enter name of the Contractor's Social Expert with relevant experience in handling sexual exploitation, sexual abuse and sexual harassment cases, or if such person is not required under the Contract, another individual designated by the Contractor to handle these matters*] in writing at this address [ ] or by telephone at [ ] or in person at [ ]; or
2. Call [ ] to reach the Contractor's hotline *(if any)* and leave a message.

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 seriously 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(s) with relevant experience*] 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): _____

ATTACHMENT 1: Behaviors constituting Sexual Exploitation and Abuse (SEA) and behaviors and behaviors constituting Sexual Harassment (SH)

ATTACHMENT 1 TO THE CODE OF CONDUCT FORM

BEHAVIORS CONSTITUTING SEXUAL EXPLOITATION AND ABUSE (SEA) AND BEHAVIORS CONSTITUTING SEXUAL HARASSMENT (SH)

The following non-exhaustive list is intended to illustrate types of prohibited behaviors.

(1) **Examples of sexual exploitation and abuse** include, but are not limited to:

- A Contractor's Personnel tells a member of the community that he/she can get them jobs related to the work site (e.g., cooking and cleaning) in exchange for sex.
- A Contractor's Personnel that is connecting electricity input to households says that he can connect women headed households to the grid in exchange for sex.
- A Contractor's Personnel rapes, or otherwise sexually assaults a member of the community.
- A Contractor's Personnel denies a person access to the Site unless he/she performs a sexual favor.
- A Contractor's Personnel tells a person applying for employment under the Contract that he/she will only hire him/her if he/she has sex with him/her.

(2) **Examples of sexual harassment in a work context**

- Contractor's Personnel comment on the appearance of another Contractor's Personnel (either positive or negative) and sexual desirability.
- When a Contractor's Personnel complains about comments made by another Contractor's Personnel on his/her appearance, the other Contractor's Personnel comment that he/she is "asking for it" because of how he/she dresses.
- Unwelcome touching of a Contractor's or Employer's Personnel by another Contractor's Personnel.
- A Contractor's Personnel tells another Contractor's Personnel that he/she will get him/her a salary raise, or promotion if he/she sends him/her naked photographs of himself/herself.