

PROCUREMENT OF SMALL WORKS

Request for Quotations

**(For Procurement under Emergency Response
Operations)**

**Package-III Repair/Replacement of Damaged
Sections of Water Lines and Sewers in
Different District of Karachi**

Lot-1 [District West]

Lot-2 [District South]

Lot-3 [District Keamari]

Lot-4 [Manhole Cover with Ring Slab]

November 2022



KARACHI WATER & SEWERAGE SERVICES IMPROVEMENT PROJECT

Project Implementation Unit

Karachi Water & Sewerage Board
40-G, Street 40, Block 6 PECHS, Karachi. Pakistan
Telephone: +92-21-34374081, +92-21-99330279



PROCUREMENT NOTICE

Request for Quotations
(For Procurement under Emergency Response Operations)

**Package-III Repair/Replacement of Damaged Sections of Water Lines
and Sewers in Different District of Karachi**

Lot-1 [District West]

Lot-2 [District South]

Lot-3 [District Keamari]

Lot-4 [Manhole Cover with Ring Slab]

Country: PAKISTAN
Employer: PROJECT IMPLEMENTATION UNIT (PIU) KWSSIP,
KARACHI WATER & SEWERAGE BOARD (KW&SB)
Project: KARACHI WATER & SEWERAGE SERVICES
IMPROVEMENT PROJECT (KWSSIP)
Contract Title: PACKAGE-III REPAIR/REPLACEMENT OF DAMAGED
SECTIONS OF WATER LINES AND SEWERS IN DIFFERENT
DISTRICT OF KARACHI
LOT-1 [DISTRICT WEST]
LOT-2 [DISTRICT SOUTH]
LOT-3 [DISTRICT KEAMARI]
LOT-4 [MANHOLE COVER WITH RING SLAB]
Loan No.: P164704; Loan IBRD 8994 – PK
RFQ Reference No: PK-KWSB-320984-CW-RFQ
Issued on: _____

1. The Islamic Republic of Pakistan has received financing from the World Bank towards the cost of Karachi Water & Sewerage Services Improvement Project (KWSSIP), and intends to apply part of the proceeds toward payments under the Contract for Package-III: Repair/Replacement of Damaged Sections of Water Lines and Sewers on in Different Districts of Karachi as per following lots:

Lot-1 [District West]

Lot-2 [District South]

Lot-3 [District Keamari]

Lot-4 [Manhole Cover with Ring Slab]

2. Project Implementation Unit (PIU) KWSSIP, Karachi Water & Sewerage Board (KW&SB) (the Employer) now invites Quotations from eligible offerors for the Package-III: Repair/Replacement of Damaged Sections of Water Lines and Sewers on in Different Districts of Karachi in three Lots as defined above, which is required to be completed as follows:

Lot-1 Duration = Sixty (60) Calendar days
Lot-2 Duration = Sixty (60) Calendar days
Lot-3 Duration = Sixty (60) Calendar days
Lot-4 Duration = Sixty (60) Calendar days

Offerors may submit quotations for one, two or three lots. Evaluation and award shall be on the lot basis. In case if the contract for more than one lot is awarded to the same offeror, the selected offeror shall be required to deploy and maintain separate resources for each awarded lot.

3. Bidding will be conducted through national competitive procurement using Request for Quotation (For Procurement under Emergency Response) as specified in the World Bank's "Procurement Regulations for IPF Borrowers- Procurement in Investment Projects Financing" ("Procurement Regulations"), and is open to all eligible offerors as defined in these Request for Quotation/Procurement Regulations.
4. Interested eligible offerors may obtain further information from the Office of the Project Director, Project Implementation Unit (KWSSIP), KW&SB and inspect the Request for Quotation (RFQ) during office hours [0900 to 1700 hours, Monday to Friday] at the address given below.
5. RFQ may be purchased by interested offerors upon the submission of a written application to the address below and upon payment of a nonrefundable fee of PKR 3000 (Pak Rupees Three Thousand only) through Pay Order in favour of Karachi Water & Sewerage Services Improvement Project (KWSSIP) for each set of RFQ. Alternatively, RFQ may be downloaded from <https://www.kwssip.gos.pk/>.
6. Quotations must be delivered to the address below on or before **1700 hours, December 02, 2022**. Electronic submission of Quotations will not be permitted.
7. All Quotations must be accompanied by a Bid Security as per following:

Lot-1 Bid Security = PKR 12.0 million
Lot-2 Bid Security = PKR 2.5 million
Lot-3 Bid Security = PKR 0.5 million
Lot-4 Bid Security = PKR 0.5 million

8. The address referred to above is:

Project Director
Project Implementation Unit (PIU)
Karachi Water & Sewerage Services Improvement Project (KWSSIP)
Karachi Water & Sewerage Board
40-G, Street 40, Block 6 PECHS,
Shahrah-e-Faisal, Karachi.
Pakistan.

Telephone: +92-21-34374081, +92-21-99330279

Email address: engrsalahuddin78@gmail.com, asif_thebraveheart@hotmail.com.

Website: <https://www.kwssip.gos.pk>

Procurement of Package-III Repair/Replacement of Damaged Sections of Water Lines and Sewers in Different District of Karachi

Lot-1 [District West]

Lot-2 [District South]

Lot-3 [District Keamari]

Lot-4 [Manhole Cover with Ring Slab]

Ref No: PK-KWSB-320972-CW-RFQ

Project: KARACHI WATER & SEWERAGE SERVICES
IMPROVEMENT PROJECT (KWSSIP)

Employer: PROJECT IMPLEMENTATION UNIT (PIU) KWSSIP,
KARACHI WATER & SEWERAGE BOARD (KW&SB)

Country: Islamic Republic of Pakistan

Issued on: _____

VOLUME I

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Request for Quotations

Request for Quotation (RFQ)

1. The Islamic Republic of Pakistan has received financing from the World Bank (Bank) toward the cost of the Karachi Water & Sewerage Services Improvement Project (KWSSIP) and intends to apply part of the proceeds toward payments under the Contract for “Package-III: Repair/Replacement of Damaged Sections of Water Lines and Sewers on Peoples in Different Districts of Karachi Lot-1 [District West], Lot-2 [District South], Lot-3 [District Keamari], Lot-4 [Manhole Cover with Ring Slab]”
2. The Project Implementation Unit (PIU) KWSSIP, Karachi Water & Sewerage Board (KW&SB) (the Employer) now invites quotations from contractors for the Works described in Annex 1: Works Requirements, attached to this RFQ.

Fraud and Corruption

3. The Bank requires compliance with the Bank’s Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG’s Sanctions Framework, as set forth in Appendix A to the Contract Conditions.
4. In further pursuance of this policy, Contractors shall permit and shall cause their agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit the Bank to inspect all accounts, records and other documents relating to the RFQ and Contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

Eligible Materials, Equipment and Services

5. The materials, equipment and services to be supplied under the Contract and financed by the Bank may have their origin in any country subject to Para. 9. At the Employer’s request, Contractors may be required to provide evidence of the origin of materials, equipment and services.

Eligible Contractors

6. In case the Contractor is a joint venture (JV), all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Request for Quotations process and, in the event the JV is awarded the Contract, during contract execution.
7. A Contractor may have the nationality of any country, subject to the restrictions pursuant to paras. 8 and 9 hereinafter. A Contractor shall be deemed to have the nationality of a country if the Contractor is constituted, incorporated or registered in, and operates in conformity with, the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or subconsultants for any part of the Contract including Related Services.
8. Firms and individuals may be ineligible if so indicated in para.9 below and:
 - (a) as a matter of law or official regulations, the Borrower’s country prohibits commercial relations with that country, provided that the Bank is satisfied

that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or

- (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.
9. In reference to paras. 5 and 7, for the information of Contractors, at the present time firms, goods and services from the following countries are excluded from this procurement process:
 - (a) Under para. 5 and 8 (a): Only those countries are excluded which are sanctioned/banned by World Bank.
 - (b) Under para. 5 and 8 (b): Only those countries are excluded which are sanctioned/banned by World Bank.
10. A Contractor that has been sanctioned by the Bank, pursuant to the Bank's Anti-Corruption Guidelines, in accordance with its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework as described in the appendix to the Contract Conditions (Appendix A) paragraph 2.2 d., shall be ineligible to submit Quotations or be awarded or otherwise benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. A list of debarred firms and individuals is available on the Bank's external website: <http://www.worldbank.org/debarr>.
11. Contractors that are state-owned enterprises or institutions in the Employer's country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they:
 - (a) are legally and financially autonomous;
 - (b) operate under commercial law; and
 - (c) are not under supervision of the Employer.
12. A Contractor shall not have a conflict of interest. Any Contractor found to have a conflict of interest shall be disqualified. A Contractor may be considered to have a conflict of interest for the purpose of this Request for Quotations process, if the Contractor:
 - (a) directly or indirectly controls, is controlled by or is under common control with another Contractor that submitted a Quotation;
 - (b) receives or has received any direct or indirect subsidy from another Contractor that submitted a Quotation;
 - (c) has the same legal representative as another Contractor that submitted a Quotation;
 - (d) has a relationship with another Contractor that submitted a Quotation, directly or through common third parties, that puts it in a position to influence the Quotation of another Contractor, or influence the decisions of the Employer regarding this Request for Quotations process; or

- (e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Request for Quotations process; or
- (f) or any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower for implementing the Contract; or
- (g) would be providing goods, works, or non-consulting services resulting from, or directly related to consulting services for the preparation or implementation of the project specified in this Request for Quotations, that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
- (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the Request for Quotations or specifications and/or the evaluation of Quotations, of the subject Contract; or (ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the Request for Quotations process and execution of the Contract.

Bid Security and Performance Security

13. All Quotations must be accompanied by a Bid Security as per following:

Lot-1 Bid Security	=	PKR 12.0 million
Lot-2 Bid Security	=	PKR 2.5 million
Lot-3 Bid Security	=	PKR 0.5 million
Lot-4 Bid Security	=	PKR 0.5 million

The Bid Security shall be in the form of a Pay Order/ Bank Guarantee issued by a Scheduled Bank in Pakistan in favor of Project Director, Karachi Water & Sewerage Services Improvement Project (KWSSIP) valid for a period of 28 days beyond the expiry of the Validity of Quotations.

The successful Contractor shall submit a Performance Security equivalent to 10% of the contract price for each lot in accordance with the Conditions of Contract.

Validity of Quotations

14. The quotations shall be valid until March 02, 2023.

Price

15. The Contractor shall quote its total price in the Contractor's Quotation Form.

16. The Contractor shall also fill in its rates and prices for all items of the Works described in the attached Bill of Quantities. Items against which no rate or price is entered by the Contractor will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.

The rates and prices shall include all duties, taxes, and other levies payable by the Contractor under the Contract, as of the date 7 (seven) days prior to the deadline for submission of quotations.

17. A Contractor expecting to incur expenditures in other currencies in addition to the local currency in PKR for inputs to the Works supplied from outside the Employer's

Country, shall bear all costs and risks for arranging such currencies including currency exchange rate parity.

18. The currency of the Quotation and the currency of payments shall be the same, i.e., PKR.

Technical proposal

19. The Contractor shall furnish a technical proposal including a statement of work methods, equipment, personnel, schedule and any other relevant information, in sufficient detail to demonstrate the adequacy of its proposal to meet the work's requirements and the completion time.

In case an offeror desires to participate in more than one lot, the requirement shall be to propose separate resources for each lot in its technical proposal.

Clarifications

20. Any clarification request regarding this RFQ may be sent in writing to office of the Project Director, Project Implementation Unit (KWSSIP), KW&SB, 40-G, Street 40, Block 6 PECHS, Shahrah-e-Faisal, Karachi. Pakistan. Telephone: +92-21-34374081, +92-21-99330279 Email: engrsalahuddin78@gmail.com, asif_thebraveheart@hotmail.com before November 29, 2022, 1700 Hrs. The Employer will forward copies of its response to all contractors including a description of the inquiry but without identifying its source.

Submission of Quotations

21. Quotations shall be submitted in the form attached at Annex 2. The Offeror shall submit original + one copy of the entire Quotation.
22. The deadline for submission of Quotations December 02, 2022, 1700 Hrs.
23. The address for submission of Quotations is:

Project Director
Project Implementation Unit (PIU)
Karachi Water & Sewerage Services Improvement Project (KWSSIP)
Karachi Water & Sewerage Board
40-G, Street 40, Block 6 PECHS,
Shahrah-e-Faisal, Karachi.
Pakistan.
Telephone: +92-21-34374081, +92-21-99330279

Opening of Quotations

24. Quotations will be opened by the Employer's representatives immediately after the deadline for the submission of Quotations.

Evaluation of Quotations

25. The quotations will be evaluated to determine substantial responsiveness of the technical proposal.
26. Not Used.
27. For technically compliant quotations, the total evaluated prices, excluding provisional sums and any provision for contingencies but including dayworks where

priced competitively, will be compared to determine the lowest evaluated price for each lot. If same contractor has offered the lowest evaluated price in more than one lot, he will have to meet aggregate qualification requirement for award of these lots.

Contract Award

28. The Contract will be awarded to the Contractor who meets the eligibility requirements in accordance with the RFQ, offers the lowest evaluated price, offers a technically compliant quotation, guarantees completion of the Works by the specified date and meets the Qualification Criteria specified in Annex 4, Qualification Criteria and Forms.
29. The Employer shall invite by the quickest means the successful Contractor for any discussion that may be needed to conclude the contract or otherwise for contract signature.
30. The Employer shall communicate by the quickest means with the other contractors on its contract award decision. An unsuccessful contractor may request clarifications as to why its quotation was not determined to be successful. The Employer will address this request within a reasonable time.
31. The Employer shall publish a contract award notice on its website with free access, if available, or in a newspaper of national circulation or UNDB online, within 15 (fifteen) days after award of contract. The information shall include the name of the successful Contractor, the Contract Price, the Contract duration, summary of its scope and the names of the Contractors and their quoted and evaluated prices.

On behalf of the Employer:

Signature: _____

Name: _____

Title/position: Project Director

Attachments:

Annex 1: Works Requirements

Annex 2: Quotation Form

Annex 3: Contract Forms

Annex 4: Qualification Criteria

ANNEX 1: Works Requirements

The Work Requirements include the following:

- Specifications
- Drawings
- Environmental and Social (ES) Requirements
- Key Personnel
- Equipment
- Supplementary Information

Specifications

Detailed Specifications including Technical Provisions and Special Provisions are given
in Part-A of Volume - II

Drawings

Drawings are provided in Part-C of Volume - II

Environmental and Social (ES) Requirements

Environmental, Social, Health & Safety requirements of the project shall be met in accordance with World Bank Safeguards policies (OP 4.01, OP 4.04, OP 4.11, OP 4.12, OP 4.20 & BP 17.50) and Sindh Environmental Protection Agency (SEPA), Government of Sindh Guidelines, 2014.

For identification of possible and induced environmental and social impacts of the proposed project on both short and long-term bases, Environmental & Social Management Plan (ESMP) of the project is prepared. Based on the level and nature of these observations, the ESMP delineates proper mitigation measures. As a planning tool, the ESMP aims to ensure that environmental, socio-economic and cultural issues throughout the entire project lifecycle are anticipated and considered by the project proponent. It also serves as a framework for establishing project controls to reduce or prevent adverse environmental or socio-economic impacts.

The ESMP identifies the potentially significant impacts of the proposed project and suggest the applicable mitigation measures to avoid, minimize or reduce the magnitude of the impacts. It also indicates the institutional and training requirements to implement mitigation measure during the construction and operation of proposed project. The ESMP presents a preliminary roadmap for environment and social management for construction and operation of the project activities.

The impacts and their mitigation measures, summarized in ESMP, is part of the RFQ to ensure that Contractors implement ESMP recommendations at all project stages. The ESMP requirements are part of the Contract and the details prescribed in the ESMP will be mandatory. The ESMP will be equally applicable to Subcontractors, including nominated Subcontractors (if any).

The Contractor will carefully consider the requirements for environmental and social management contained in this ESMP. The prescriptions and clauses detailed in the ESMP are an integral part of the Contract for relevant items of Work; unless separate items are included in the Bill of Quantities (BOQs). Separate payment will not be made to contractor in respect to compliance with the ESMP. In case the Contractor or Subcontractors fail to implement the ESMP recommendations, the Project Manager shall take necessary action(s) to ensure that the ESMP is properly implemented and/or to rectify the damages caused by such negligence. ESMP is provided in Annexure-I of Volume-II.

Key Personnel

The Contractor must demonstrate that it will have a suitably qualified (and in adequate numbers) minimum Key Personnel for each lot, as described in the table below, that are required to perform the Contract.

No Key Personnel is required for Lot-4.

No.	PERSONNEL	Relevant Academic Qualifications	Minimum Years of Relevant Work Experience
1.	Project Manager	Bachelor's degree in Civil Engineering preferably Masters in Civil Engineering/ Environmental Engineering/ Construction Management/Project Management or equivalent and Foreign Qualification will be preferred	15
2.	Site Engineer	Bachelor's degree in Civil Engineering preferably Masters in Civil Engineering or equivalent and Foreign Qualification will be preferred	10
3.	Planning Engineer	Bachelor's degree in Civil Engineering preferably Masters in Civil Engineering/ Construction Management/Project and expertise on Primavera P6 in the field of planning, scheduling and resource allocation for various projects and Foreign Qualification will be preferred.	10
4.	Mechanical Engineer	Bachelor's degree in Mechanical / Electromechanical Engineering - preferably Masters in Mechanical Engineering / Mechatronics Engineering or equivalent and Foreign Qualification will be preferred.	10
5.	Material & Quality Control Engineer	Bachelor's degree in Civil Engineer - preferably Masters in Civil Engineering or equivalent and Foreign Qualification will be preferred.	10
6.	Construction Supervisor	DAE in Civil - preferably B-Tech in Civil or equivalent and Foreign Experience will be preferred.	10
7.	Surveyor	DAE in Civil	10
8.	Quantity Surveyor	DAE in Civil - preferably B-Tech in Civil or equivalent and Foreign Experience will be preferred.	10

Equipment

The Contractor must demonstrate for each lot that it will have access to the equipment listed in table below:

Sr. No.	Equipment	Minimum Number Required	
		Lot-1,2 & 3	Lot-4
1	Steel Shuttering	5,000 m ²	-
2	Formwork	2500 m ²	-
3	Dumpers	2	-
4	Light Weight Compactor	2	-
5	Ramming Machine	2	-
6	Water Sprinkler and Water Tanker	3	-
7	Excavator	2	-
8	Tractor with Front Blade and Trolley	2	-
9	Loader	2	2
10	Road Cutter	2	-
11	Jack Hammer	2	-
12	Plate Compactor	2	-
13	Concrete Mixer Machine	2	2
14	Generators for Site (50 KVA at least)	2	-
15	Welding Plant	5	-
16	Transit Mixer	2	-
17	Vibrators	2	2
18	Light Transport	2	2
19	Barricades (Corrugated Sheets and Water Filled Barrier)	500m	-
20	Night Lighting Equipment	50	-
21	Dewatering Pump with Canvas Pipes	20	-

Note: Unit is "Number(s)" unless specified

Supplementary Information

Supplementary Information is provided separately in Part-B of Volume - II

ANNEX 2: Quotation Forms

Contractor Quotation Form

From: *[Insert Contractor's name; in case of a joint venture, specify the name of the joint venture]*

Contractor's Representative: *[Insert name of Contractor's Representative]*

Title/Position: *[Insert Representatives title or position]*

Address: *[Insert Contractor's address]*

Email: *[Insert Contractor's email address]*

To: Project Implementation Unit (PIU), Karachi Water & Sewerage Services Improvement Project (KWSSIP)

Employer's Representative: Engr. Syed Salahuddin Ahmed

Title/Position: Project Director

Address: Project Implementation Unit (PIU) KWSSIP
40-G, Street 40, Block 6, PECHS, Karachi. Pakistan
City: Karachi, Pakistan
ZIP Code: 75400

RFQ Title Package-III Repair/Replacement of Damaged Sections of Water Lines and Sewers in Different District of Karachi
Lot-1 [District West]
Lot-2 [District South]
Lot-3 [District Keamari]
Lot-4 [Manhole Cover with Ring Slab]

RFQ Ref No.: PK-KWSB-320984-CW-RFQ

Date of Quotation: _____

Dear Engr. Syed Salahuddin Ahmed:

SUBMISSION OF QUOTATION

1. Conformity and No Reservations

In response to the above named RFQ, we offer to execute the Works as per this Quotation and in conformity with the RFQ, Delivery and Completion Schedules and Technical Specifications. We confirm that we have examined and have no reservations to the RFQ, including the Contract.

2. Eligibility

We meet the eligibility requirements and have no conflict of interest, in accordance with the Request for Quotations.

3. Suspension and Debarment

We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Employer's Country laws or official regulations or pursuant to a decision of the United Nations Security Council.

4. Quotation Price

The total price of our offer is

Lot-1 [District West] : _____ [insert the total quoted price in words and figures]

Lot-2 [District South] : _____ [insert the total quoted price in words and figures]

Lot-3 [District Keamari] : _____ [insert the total quoted price in words and figures]

Lot-4 [Manhole Cover with Ring Slab] : _____ [insert the total quoted price in words and figures]

5. Quotation Validity

Our Quotation shall be valid until the date specified in the RFQ, and it shall remain binding upon us and may be accepted at any time before it expires.

6. Performance Security

If we are awarded the Contract, we commit to obtain a Performance Security in accordance with the RFQ.

7. Commissions, gratuities, fees

We have paid, or will pay the following commissions, gratuities, or fees with respect to this Quotation.

[If none has been paid or is to be paid, indicate "none."]

Name of Recipient	Address	Reason	Amount

8. Not Bound to Accept

We understand that you reserve the right to:

- a. accept or reject any Quotation and are not bound to accept the lowest evaluated cost Quotation, or any other Quotation that you may receive, and

-
- b. annul the RFQ process at any time prior to the award of the Contract without incurring any liability to Contractors.

9. Fraud and Corruption

We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

On behalf of the Contractor:

Name of the person duly authorized to sign the Quotation on behalf of the Contractor:

_____ [insert complete name of person duly authorized to sign the Quotation]*

Title of the person signing the Quotation:

_____ [insert complete title of the person signing the Quotation]

Signature of the person named above:

_____ [insert signature of person whose name and capacity are shown above]

Date signed _____ [insert date of signing] day of _____ [insert month & year]

*Power of Attorney shall be attached to the Quotation.

A. Schedules

Bill of Quantities

A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications (Technical Provisions and Special Provisions), and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Project Manager and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Project Manager may fix within the terms of the Contract.
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
7. The Contractor shall provide all parts of the Works to be completed in every respect for successful operation. Notwithstanding that any details, accessories, etc. required for the complete installation and satisfactory operation, are not specifically mentioned in the Specification, such details shall be considered as included in the Contract Price. All charges for the supply of all goods, materials, accessories or work not specifically mentioned herein but necessary for the completion and operation of the Works shall be deemed to have been included in the quoted prices.
8. Inland transportation shall be Contractor's responsibility in respect of:
 - a. the Plant offered from outside Pakistan; from the port of entry in Pakistan to the storage area at the Site, and
 - b. indigenous Plant, if any offered from within Pakistan; from the ex-works in Pakistan to the storage area at the Site, and

all charges occurring therefrom including fees and charges for loading, forwarding and unloading expenses shall be borne by the Contractor. Unloading at the Site, handling of the Plant and other materials to the designated point of Site storage, checking and verifying all shipments received against shipping documents, issue of all receiving reports and issue of damage reports (when applicable) shall be the Contractor's responsibility.

9. Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Project Manager.

B. Work Items**LOT-1: DISTRICT WEST**

BILL NO. 1: REPAIR OF WATER SUPPLY LINES

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	<i>Supply, installation, testing, disinfection and commissioning of the following items of work (unless specifically stated otherwise) including all jointing material, wastages, labour, tools, accessories and other incidentals, etc. required for completion of each item as per specification, drawings and as directed by the Engineer/ Project Manager. (Provisional Quantities have been taken, to be executed after approval of the Engineer)</i>				
	CIVIL WORKS				
1	Breaking of Existing Road Pavement Structure	1,346.00	100 Cft		
2	Dismantling plain cement concrete	20.00	100 Cft		
3	Dismantling reinforced cement concrete separating reinforcement from concrete cleaning and straightening the same.	144.00	100 Cft		
4	Excavation for pipe line in trenches, and pits in all kind of soils of murum including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	562.80	1,000 Cft		
5	Excavation for pipe line in trenches and pit in hard soils including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	281.40	1,000 Cft		
6	Excavation for pipe line in trenches, and pits in soft rock by hammering and chiseling where blasting is not practicable or prohibited including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non- vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	93.80	1,000 Cft		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
7	Earth for slush or Daldal including dewatering	281.40	1,000 Cft		
8	Add for additional lift of every three ft. or part thereof in excavation for pipelines & storage tanks trenches and pits.				
i)	Lift from 5 ft to 8ft	234.00	1,000 Cft		
ii)	Lift from 8 ft to 11ft	209.00	1,000 Cft		
iii)	Lift from 11 ft to 14ft	106.00	1,000 Cft		
9	Providing, laying and compacting (90% modified AASHTO) sewer pipe bedding. The bedding material shall be well graded granular fill with fine particles not more than 15%. The granular fill aggregate shall be 1" to 1-1/2" size complete in all respect as per drawings, specification and direction by the Engineer.	274	100 Cft		
10	Supplying and filling sand over pipe line under road structure.	427.00	100 Cft		
11	Providing and laying plain cement concrete including all kind of form work, hoisting, placing compacting, finishing, curing complete in all respect as shown on the drawing. Minimum cylindrical strength 3000 psi	20.00	100 Cft		
	CHAMBERS				
12	Providing and laying cement concrete including all kind of formwork, hoisting, placing, compacting, finishing, curing complete in all respect as shown on the drawing. Minimum cylindrical strength 1500 PSI	3.00	100 Cft.		
13	Providing and laying reinforced cement concrete having 3000 psi cylindrical strength including all kind of form work, hoisting, placing, compacting, finishing and curing complete in all respect as shown on the drawing	18.00	100 Cft		
14	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also include removal of rust). Using Tor bars (Grade-60)	82.00	100 Kg		
15	Providing "expansion joint" in concrete work of 9" wide corrugated PVC waterstop (with bulb), conforming to ASTM D2240 and D638 Type IV, including soldering cost of material and labour etc. complete.	317.33	Rft		
16	Bitumen coating to plastered or cement concrete surface (20 lbs per 100 Sft).	22.00	100 Sft		
17	Providing and fixing 6" thick R.C.C. manhole cover including all reinforcement with tee shaped C.I. frame of 22" i/d (frame weighing 37.324 Kg) complete in all respect per Drawing, Specifications and as directed by the Engineer.	17.00	Each		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
18	Providing and fixing Malleable Iron Steps (weight not less than 5 Kg) in manholes, conforming to specification as per drawing including carriage and setting the same to correct line and levels to complete satisfaction of the Engineer.	68.00	Each		
19	RESTORATION OF ROAD				
i)	Compaction of Natural Ground	898.00	100 Sft		
ii)	Formation of Embankment from Borrow Excavation in common material	1,796.00	100 Cft		
iii)	Subgrade Preparation in Earth Cut	898.00	100 Sft		
iv)	Granular Subbase	673.00	100 Cft		
v)	Aggregate Base Course	902.00	100 Cft		
vi)	Asphaltic Base Course Plant mix (Class B)	153.00	100 Cft		
vii)	Cut -Back Asphalt for Bituminous Prime Coat	898.00	100 Sft		
viii)	Cut -Back Asphalt for Bituminous Tack Coat	898.00	100 Sft		
ix)	Asphaltic Concrete for Wearing Course (Class "A")	153.00	100 Cft		
20	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	751.00	1,000 Cft		
21	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m)				
	a) upto ¼ mile (400 m).	188.00	1000 Cft.		
	b) for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	188.00	1000 Cft.		
	c) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	188.00	1000 Cft.		
	d) for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km). For Lead 35 Km.	188.00	1000 Cft.		
	PIPING/ MECHANICAL WORKS				
22	Designing, manufacturing/fabrication, testing at manufacturer's works, furnishing, installing, painting, testing and commissioning at Site, placing in satisfactory operating conditions of horizontal non clogging trolley mounted pumping set (including diesel Engine) with 15m head for diversion/ disposal of wastewater during construction of pipe line at lower depth and for pumping out water found at any depth from trenches and Chambers along with suction and delivery pipes of adequate length as per specifications and as approved by the Engineer. (Pump set shall be handed over to KWSB after the completion of the Project.				
i)	Capacity 2 cusec	2.00	No		
23	H.S diesel for trolley mounted Pumping	9,600	Liters		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	set to be consumed as per direction of the Engineer				
24	Providing, fixing, jointing and testing of C.I flanged sluice/ gate valve of approved quality, including nuts, bolts, gasket and washers etc. complete in all respect as per drawings, specifications and as directed by the engineer.				
i)	6" i/d	1.00	Each		
ii)	8" i/d	1.00	Each		
iii)	10" i/d	1.00	Each		
iv)	12" i/d	7.00	Each		
v)	16" i/d	1.00	Each		
vi)	18" i/d	1.00	Each		
vii)	33" i/d	1.00	Each		
viii)	48" i/d	3.00	Each		
ix)	66" i/d	1.00	Each		
25	Providing and fixing double orifice Air Valve 3" internal dia of BSS quality and weight including the cost of jointing material with all fittings and accessories complete in all respect as approved by the Engineer.	6.00	Each		
26	Providing, fixing, jointing and testing of MS flanges including Rubber Gasket complete in all respect as per drawings, specifications and as directed by the engineer.				
i)	180 mm	4.00	Each		
ii)	225 mm	4.00	Each		
iii)	280 mm	4.00	Each		
iv)	355 mm	16.00	Each		
v)	450 mm	4.00	Each		
vi)	500 mm	6.00	Each		
vii)	1000 mm	4.00	Each		
viii)	1400 mm	10.00	Each		
ix)	1600 mm	4.00	Each		
27	Providing, fixing, jointing and testing of M.S. Tail Piece (Dholki) on existing pipes (PRCC, AC etc.) to join HDPE pipe, fabricated with 3/8" thick M.S. plate including the cost of labour and sealing material etc. complete in all respect as per drawings, specifications and as directed by the engineer				
i)	6" i/d	2.00	Each		
ii)	8" i/d	2.00	Each		
iii)	10" i/d	2.00	Each		
iv)	12" i/d	2.00	Each		
v)	16" i/d	2.00	Each		
vi)	18" i/d	4.00	Each		
vii)	33" i/d	2.00	Each		
viii)	48" i/d	4.00	Each		
ix)	66" i/d	2.00	Each		
28	Providing, laying, cutting, butt fusion jointing, testing, commissioning &				

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	disinfecting the High Density Polyethylene Pipe (HDPE) PE-100, PN-8 (SDR 21) conforming to ISO 4427 or DN8074/8075 or equivalent to the satisfaction of Engineer. The pipe shall be from reputable manufacturer approved by the Engineer.				
i)	180 mm	198.00	Rft.		
ii)	225 mm	198.00	Rft.		
iii)	280 mm	165.00	Rft.		
iv)	355 mm	6,600.00	Rft.		
v)	450 mm	220.00	Rft.		
vi)	500 mm	275.00	Rft.		
vii)	1000 mm	33.00	Rft.		
viii)	1400 mm	3,069.00	Rft.		
ix)	1600 mm	550.00	Rft.		
29	Providing, laying, jointing, testing, disinfecting and commissioning of the High Density Polyethylene Pipe fittings and specials such as bend, Tee, Taper core, stab end etc. (HDPE) (PE-100), PN 10 (SDR 17) conforming to relevant ASTM standard and ISO 4427, DIN 8074/75 complete in all respects (Including Injection moulded fittings) as approved by the Engineer.				
	Bends				
i)	180 mm	1.00	Each		
ii)	225 mm	1.00	Each		
iii)	280 mm	1.00	Each		
iv)	355 mm	14.00	Each		
v)	450 mm	1.00	Each		
vi)	500 mm	1.00	Each		
vii)	1000 mm	1.00	Each		
viii)	1400 mm	7.00	Each		
ix)	1600 mm	2.00	Each		
	Tees				
i)	180 mm	1.00	Each		
ii)	225 mm	1.00	Each		
iii)	280 mm	1.00	Each		
iv)	355 mm	14.00	Each		
v)	450 mm	1.00	Each		
vi)	500 mm	1.00	Each		
vii)	1000 mm	1.00	Each		
viii)	1400 mm	7.00	Each		
ix)	1600 mm	2.00	Each		
	Reducers				
i)	180 mm	1.00	Each		
ii)	225 mm	1.00	Each		
iii)	280 mm	1.00	Each		
iv)	355 mm	14.00	Each		
v)	450 mm	1.00	Each		
vi)	500 mm	1.00	Each		
vii)	1000 mm	1.00	Each		
viii)	1400 mm	7.00	Each		
ix)	1600 mm	2.00	Each		
	Reducing Tee				

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
i)	180 mm	1.00	Each		
ii)	225 mm	1.00	Each		
iii)	280 mm	1.00	Each		
iv)	355 mm	27.00	Each		
v)	450 mm	1.00	Each		
vi)	500 mm	2.00	Each		
vii)	1000 mm	1.00	Each		
viii)	1400 mm	13.00	Each		
ix)	1600 mm	3.00	Each		
	Stub Ends				
i)	180 mm	2.00	Each		
ii)	225 mm	2.00	Each		
iii)	280 mm	2.00	Each		
iv)	355 mm	15.00	Each		
v)	450 mm	2.00	Each		
vi)	500 mm	5.00	Each		
vii)	1000 mm	2.00	Each		
viii)	1400 mm	10.00	Each		
ix)	1600 mm	3.00	Each		
30	Providing & fixing MS Split collar on PRCC pipe, 18" wide fabricated with 1/8" thick M.S plate 1-1/4" wide 1/8" thick ring at centre, 1/2" thick M.S square bar on both ends. It includes the cost of 4 nos- 1/2" thick flanges, nuts & bolts rubber packing ,labour and the sealing material.				
i)	6" i/d	1.00	Each		
ii)	8" i/d	1.00	Each		
iii)	10" i/d	1.00	Each		
iv)	12" i/d	5.00	Each		
31	Providing & fixing MS Split collar on PRCC pipe, 18" wide fabricated with 3/8" thick M.S plate 1-1/4" wide 3/8" thick ring at centre, 3/4" thick M.S square bar on both ends. It includes the cost of 4 nos- 3/4" thick flanges, nuts & bolts rubber packing ,labour and the sealing material.				
i)	16" i/d	1.00	Each		
ii)	18" i/d	1.00	Each		
iii)	33" i/d	1.00	Each		
iv)	48" i/d	5.00	Each		
v)	66" i/d	1.00	Each		
32	Providing & fixing M.S Split stepped collar on PRCC pipe, 18" wide fabricated with 1/8" thick M.S plate, 1/2" thick M.S square bars on both ends. It includes the cost of 4 nos- 1/2" thick M.S flanges, nut & bolts rubber packing, labour and the sealing material.				
i)	6" i/d	1.00	Each		
ii)	8" i/d	1.00	Each		
iii)	10" i/d	1.00	Each		
iv)	12" i/d	5.00	Each		
33	Providing & fixing M.S Split stepped collar on PRCC pipe, 18" wide fabricated with 3/8" thick M.S plate, 3/4" thick M.S				

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4 = (1) x (3))
	square bars on both ends. It includes the cost of 4 nos- 3/4" thick M.S flanges, nut & bolts rubber packing, labour and the sealing material.				
i)	16" i/d	1.00	Each		
ii)	18" i/d	1.00	Each		
iii)	33" i/d	1.00	Each		
iv)	48" i/d	5.00	Each		
v)	66" i/d	1.00	Each		
34	Repair of leaking joint on PRCC Pipe of following diameters. It includes the cost of sealing with gunny bags, spun yarn, lead wool, rapid hardening cement etc. complete in all respect				
i)	6" i/d	1.00	Each		
ii)	8" i/d	1.00	Each		
iii)	10" i/d	1.00	Each		
iv)	12" i/d	1.00	Each		
v)	16" i/d	1.00	Each		
vi)	18" i/d	1.00	Each		
vii)	33" i/d	1.00	Each		
viii)	48" i/d	1.00	Each		
ix)	66" i/d	1.00	Each		
35	Repair of leaking joint on MS Pipes including the cost of cutting the damaged portion of pipe and replace it with 3/8" thick MS sheet, welding etc. complete in all respect	50.00	Sft		
36	Providing & fixing Rubber Packing under M.S Collars for making it water tight complete in all aspects, as per drawings, specifications and as directed by the Engineer.	415.83	KG		
TOTAL BILL NO.1					

BILL NO. 2: EMP IMPLEMENTATION COST

Sr. No.	Description	Unit	Quantity (1)	Rate [PKR] (2)	Amount [PKR] (3= (1) x (2))
A)	Health, Safety & Environment (HSE)				
1	Medical screening for workers	Persons	50		
2	Tarpaulins	Each	5		
3	Handling of hazardous material	Per Month	2		
4	Handling of solid waste	Per Month	2		
5	DCP Fire extinguishers in case of fire	Each	5		
	CO2 Fire extinguishers in case of fire	Each	5		
	Fire alarm	Each	5		
6	Special Measures for Covid-19	-	L.S		
B)	Personal Protective Equipment (PPE)				
1	Ear plugs	Each	100		
2	Helmets	Each	50		
3	Safety shoes	Each	50		
4	Protective goggles	Each	50		
5	Gloves	Each	100		
6	H ₂ S Mask & Kit	Each	5		
7	Dust Mask	Each	400		
8	Face Shield	Each	5		
9	First Aid Kit	Each	5		
C)	Institutional Strengthening Cost				
1	Environmental Expert/ HSE Expert (02x01 Nos.)	Per month	02		
2	Social / Resettlement / Gender Expert (02x01 Nos.)	Per Month	02		
D)	Institutional Training				
1	Environment code of practices/ Gender Aspects	Nos.	01		
2	Awareness workshop regarding Covid 19 and other vector borne diseases	Nos.	01		
3	Waste Management	Nos.	01		
4	Community/ occupational health and safety	Nos.	01		
TOTAL AMOUNT BILL NO. 3					

BILL NO. 4: PROVISIONAL SUMS

Sr. No.	Description	Unit	Quantity	Rate [PKR]	Amount [PKR]
	<i>The following items shall be provided complete in all respects and up to the satisfaction of The Project Manager / The Employer. Payment will be made as per actual bills.</i>				
1	Provisional Sum for Shifting of Utilities including gas, electricity, telecom, etc. (where required)	-	-	-	3,500,000
2	Providing Supervisory Staff Facilities	-	-	-	3,500,000
TOTAL AMOUNT BILL NO. 4					

Summary Lot-1 (District West)	Amount (PKR)
BILL NO. 1: REPAIR OF WATER SUPPLY LINES	
BILL NO. 2: REPAIR OF SEWER LINES	
BILL NO. 3: EMP IMPLEMENTATION COST	
BILL NO. 4: PROVISIONAL SUMS	
Sub-Total	
Sales Tax @13%	
Price for Lot-1 (Carried forward to Grand Summary)	

LOT-2: DISTRICT SOUTH

BILL NO. 1: REPAIR OF WATER SUPPLY LINES

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4 = (1) x (3))
	<i>Supply, installation, testing, disinfection and commissioning of the following items of work (unless specifically stated otherwise) including all jointing material, wastages, labour, tools, accessories and other incidentals, etc. required for completion of each item as per specification, drawings and as directed by the Engineer/ Project Manager. (Provisional Quantities have been taken, to be executed after approval of the Engineer)</i>				
	CIVIL WORKS				
1	Breaking of Existing Road Pavement Structure	348.00	100 Cft		
2	Dismantling plain cement concrete	5.00	100 Cft		
3	Dismantling reinforced cement concrete separating reinforcement from concrete cleaning and straightening the same.	12.00	100 Cft		
4	Excavation for pipe line in trenches, and pits in all kind of soils of murum including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	94.80	1,000 Cft		
5	Excavation for pipe line in trenches and pit in hard soils including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	47.40	1,000 Cft		
6	Excavation for pipe line in trenches, and pits in soft rock by hammering and chiseling where blasting is not practicable or prohibited including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non- vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	15.80	1,000 Cft		
7	Earth for slush or Daldal including dewatering	47.40	1,000 Cft		
8	Add for additional lift of every three ft. or part thereof in excavation for pipelines & storage tanks trenches and pits.				

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	Lift from 5 ft to 8ft	58.00	1,000 Cft		
9	Providing, laying and compacting (90% modified AASHTO) sewer pipe bedding. The bedding material shall be well graded granular fill with fine particles not more than 15%. The granular fill aggregate shall be 1" to 1-1/2" size complete in all respect as per drawings, specification and direction by the Engineer.	56	100 Cft		
10	Supplying and filling sand over pipe line under road structure.	70.00	100 Cft		
11	Providing and laying plain cement concrete including all kind of form work, hoisting, placing compacting, finishing, curing complete in all respect as shown on the drawing.				
	Minimum cylindrical strength 3000 psi	5.00	100 Cft		
	CHAMBERS				
12	Providing and laying cement concrete including all kind of formwork, hoisting, placing, compacting, finishing, curing complete in all respect as shown on the drawing. Minimum cylindrical strength 1500 PSI	1.00	100 Cft.		
13	Providing and laying reinforced cement concrete having 3000 psi cylindrical strength including all kind of form work, hoisting, placing, compacting, finishing and curing complete in all respect as shown on the drawing	8.00	100 Cft		
14	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also include removal of rust). Using Tor bars (Grade-60)	36.00	100 Kg		
15	Providing "expansion joint" in concrete work of 9" wide corrugated PVC waterstop (with bulb), conforming to ASTM D2240 and D638 Type IV, including soldering cost of material and labour etc. complete.	130.67	Rft		
16	Bitumen coating to plastered or cement concrete surface (20 lbs per 100 Sft).	9.00	100 Sft		
17	Providing and fixing 6" thick R.C.C. manhole cover including all reinforcement with tee shaped C.I. frame of 22" i/d (frame weighing 37.324 Kg) complete in all respect per Drawing, Specifications and as directed by the Engineer.	7.00	Each		
18	Providing and fixing Malleable Iron Steps (weight not less than 5 Kg) in manholes, conforming to specification as per drawing including carriage and setting the same to correct line and levels to complete satisfaction of the Engineer.	28.00	Each		
19	RESTORATION OF ROAD				
i)	Compaction of Natural Ground	232.00	100 Sft		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4 = (1) x (3))
ii)	Formation of Embankment from Borrow Excavation in common material	464.00	100 Cft		
iii)	Subgrade Preparation in Earth Cut	232.00	100 Sft		
iv)	Granular Subbase	174.00	100 Cft		
v)	Aggregate Base Course	234.00	100 Cft		
vi)	Asphaltic Base Course Plant mix (Class B)	40.00	100 Cft		
vii)	Cut -Back Asphalt for Bituminous Prime Coat	232.00	100 Sft		
viii)	Cut -Back Asphalt for Bituminous Tack Coat	232.00	100 Sft		
ix)	Asphaltic Concrete for Wearing Course (Class "A")	40.00	100 Cft		
20	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	126.00	1,000 Cft		
21	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m)				
	a) upto ¼ mile (400 m).	32.00	1000 Cft.		
	b) for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	32.00	1000 Cft.		
	c) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	32.00	1000 Cft.		
	d) for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km). For Lead 35 Km.	32.00	1000 Cft.		
	PIPING/ MECHANICAL WORKS				
22	Designing, manufacturing/fabrication, testing at manufacturer's works, furnishing, installing, painting, testing and commissioning at Site, placing in satisfactory operating conditions of horizontal non clogging trolley mounted pumping set (including diesel Engine) with 15m head for diversion/ disposal of wastewater during construction of pipe line at lower depth and for pumping out water found at any depth from trenches and Chambers along with suction and delivery pipes of adequate length as per specifications and as approved by the Engineer. (Pump set shall be handed over to KWSB after the completion of the Project.				
i)	Capacity 2 cusec	1.00	No		
23	H.S diesel for trolley mounted Pumping set to be consumed as per direction of the Engineer	4,800	Liters		
24	Providing, fixing, jointing and testing of C.I flanged sluice/ gate valve of approved quality, including nuts, bolts, gasket and washers etc. complete in all respect as per drawings, specifications and as directed by the engineer.				
i)	4" i/d	2.00	Each		
ii)	6" i/d	3.00	Each		
iii)	8" i/d	1.00	Each		
iv)	18" i/d	1.00	Each		
25	Providing and fixing double orifice Air Valve	2.00	Each		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	3" internal dia of BSS quality and weight including the cost of jointing material with all fittings and accessories complete in all respect as approved by the Engineer.				
26	Providing, fixing, jointing and testing of MS flanges including Rubber Gasket complete in all respect as per drawings, specifications and as directed by the engineer.				
i)	125 mm	8.00	Each		
ii)	180 mm	14.00	Each		
iii)	225 mm	4.00	Each		
iv)	500 mm	2.00	Each		
27	Providing, fixing, jointing and testing of M.S. Tail Piece (Dholki) on existing pipes (PRCC, AC etc.) to join HDPE pipe, fabricated with 3/8" thick M.S. plate including the cost of labour and sealing material etc. complete in all respect as per drawings, specifications and as directed by the engineer				
i)	4" i/d	4.00	Each		
ii)	6" i/d	8.00	Each		
iii)	8" i/d	2.00	Each		
28	Providing, laying, cutting, butt fusion jointing, testing, commissioning & disinfecting the High Density Polyethylene Pipe (HDPE) PE-100, PN-8 (SDR 21) conforming to ISO 4427 or DN8074/8075 or equivalent to the satisfaction of Engineer. The pipe shall be from reputable manufacturer approved by the Engineer.				
i)	125 mm	1,320.00	Rft.		
ii)	180 mm	2,266.00	Rft.		
iii)	225 mm	330.00	Rft.		
29	Providing, laying, jointing, testing, disinfecting and commissioning of the High Density Polyethylene Pipe fittings and specials such as bend, Tee, Taper core, stab end etc. (HDPE) (PE-100), PN 10 (SDR 17) conforming to relevant ASTM standard and ISO 4427, DIN 8074/75 complete in all respects (Including Injection moulded fittings) as approved by the Engineer.				
	Bends				
i)	125 mm	3.00	Each		
ii)	180 mm	5.00	Each		
iii)	225 mm	1.00	Each		
	Tees				
i)	125 mm	3.00	Each		
ii)	180 mm	5.00	Each		
iii)	225 mm	1.00	Each		
	Reducers				
i)	125 mm	3.00	Each		
ii)	180 mm	5.00	Each		
iii)	225 mm	1.00	Each		
	Reducing Tee				
i)	125 mm	6.00	Each		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
ii)	180 mm	10.00	Each		
iii)	225 mm	2.00	Each		
	Stub Ends				
i)	125 mm	7.00	Each		
ii)	180 mm	13.00	Each		
iii)	225 mm	3.00	Each		
30	Providing & fixing MS Split collar on PRCC pipe, 18" wide fabricated with 1/8" thick M.S plate 1-1/4" wide 1/8" thick ring at centre, 1/2" thick M.S square bar on both ends. It includes the cost of 4 nos- 1/2" thick flanges, nuts & bolts rubber packing ,labour and the sealing material.				
i)	4" i/d	1.00	Each		
ii)	6" i/d	1.00	Each		
iii)	8" i/d	1.00	Each		
iv)	10" i/d	1.00	Each		
31	Providing & fixing MS Split collar on PRCC pipe, 18" wide fabricated with 3/8" thick M.S plate 1-1/4" wide 3/8" thick ring at centre, 3/4" thick M.S square bar on both ends. It includes the cost of 4 nos- 3/4" thick flanges, nuts & bolts rubber packing ,labour and the sealing material.				
i)	12" i/d	1.00	Each		
ii)	18" i/d	1.00	Each		
32	Providing & fixing M.S Split stepped collar on PRCC pipe, 18" wide fabricated with 1/8" thick M.S plate, 1/2" thick M.S square bars on both ends. It includes the cost of 4 nos- 1/2" thick M.S flanges, nut & bolts rubber packing, labour and the sealing material.				
i)	4" i/d	1.00	Each		
ii)	6" i/d	1.00	Each		
iii)	8" i/d	1.00	Each		
iv)	10" i/d	1.00	Each		
33	Providing & fixing M.S Split stepped collar on PRCC pipe, 18" wide fabricated with 3/8" thick M.S plate, 3/4" thick M.S square bars on both ends. It includes the cost of 4 nos- 3/4" thick M.S flanges, nut & bolts rubber packing, labour and the sealing material.				
v)	12" i/d	1.00	Each		
vi)	18" i/d	1.00	Each		
34	Repair of leaking joint on PRCC Pipe of following diameters. It includes the cost of sealing with gunny bags, spun yarn, lead wool, rapid hardening cement etc. complete in all respect				
i)	4" i/d	1.00	Each		
ii)	6" i/d	1.00	Each		
iii)	8" i/d	1.00	Each		
iv)	10" i/d	1.00	Each		
v)	12" i/d	1.00	Each		
vi)	18" i/d	1.00	Each		
35	Repair of leaking joint on MS Pipes including	10.00	Sft		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	the cost of cutting the damaged portion of pipe and replace it with 3/8" thick MS sheet, welding etc. complete in all respect				
36	Providing & fixing Rubber Packing under M.S Collars for making it water tight complete in all aspects, as per drawings, specifications and as directed by the Engineer.	43.48	KG		
TOTAL BILL NO. 1					

BILL NO. 2: REPAIR OF SEWER LINES

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
A	Replacement of Sewer Line b/w Manholes				
	<i>The following items shall be executed at site including supply of labour, material, tools, equipment, testing, commissioning etc. complete in all respects till successfully operation of the system as per specification, drawings and as directed by the Engineer/ Project Manager. (Provisional Quantities have been taken, to be executed after approval of the Engineer/ Project Manager)</i>				
1	Dismantling cement concrete plain	3.03	100 Cft.		
2	Dismantling reinforced cement concrete, separating reinforcement from concrete cleaning and straightening the same (including the dismantling of RCC sewer Pipe and its lifting from trench).	26.09	100 Cft		
3	Breaking of Existing Road Pavement Structure	13,000	Cft		
4	Excavation for pipe line in trenches, and pits in all kind of soils of murum including trimming and dressing sides to true alignment and shape, leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within one chain as directed by the Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossing where ever required lift upto 5 ft (1.52 m) and lead upto one chain (100 ft)	107.49	1000 Cft.		
5	Excavation for pipe line in trenches, and pit in hard soils including trimming and dressing sides to true alignment and shape, leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth with in one chain as directed by the Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossing for where ever required lift upto 5 ft (1.52 m) and lead upto one chain (100 ft).	38.39	1000 Cft.		
6	Excavation for pipe line in trenches, and pits in soft rock by hammering and chiseling where blasting is not practicable or prohibited including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	7.68	1000 Cft.		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
7	Extra for slush or daldal including dewatering.	61.42	1000 Cft.		
8	Add for additional lift of every three ft. or part thereof in excavation for pipelines & storage tanks trenches and pits.				
i)	5 ft. to 8 ft. (1.5 to 2.4 m) depth	55.96	1000 Cft.		
ii)	8 ft. to 11 ft. (2.4 to 3.9 m) depth	33.57	1000 Cft.		
iii)	11 ft. to 14 ft. (3.9 to 5.5 m) depth	28.61	1000 Cft.		
iv)	14 ft. to 17 ft. (5.5 to 6.4 m) depth	22.37	1000 Cft.		
v)	17 ft. to 20 ft. (6.4 to 7.3 m) depth	13.05	1000 Cft.		
9	Providing and fixing/ driving the shuttering/ timbering for trench support during excavation and laying of sewers, complete in all respect as per drawings, specifications and directions of the Engineer.				
i)	for depth upto 10 ft	79.00	100Sft.		
ii)	for depth above 10ft	28.00	100Sft.		
10	Providing and laying left over (left in place) shuttering and timbering which include kikar wood, sawing, bolts, nuts and nails complete in all respects in sewer trench (where required) after approval of the Engineer	100.00	Cft		
11	Providing, laying and compacting (90% modified AASHTO) sewer pipe bedding. The bedding material shall be well graded granular fill with fine particles not more than 15%. The granular fill aggregate shall be 1" to 1-1/2" size complete in all respect as per drawings, specification and direction by the Engineer.	8,454	Cft		
12	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 4000 psi conforming to ASTM Specification C-76, Class II, Wall B, carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete.				
i)	12" (300 mm) i/d	376.00	Rft.		
13	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 4000 psi conforming to ASTM Specification C-76, Class III, Wall B, carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete.				
i)	12" (300 mm) i/d	188.00	Rft.		
ii)	24" (610 mm) i/d	464.00	Rft.		
14	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 4000 psi conforming to ASTM Specification C-76, Class IV, Wall B, carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where				

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	necessary, testing, etc., complete.				
i)	310 mm (12") i/d	188.00	Rft.		
ii)	610 mm (24") i/d	696.00	Rft.		
15	Providing and applying Epoxy coating of approved quality with coverage @ 0.31 Kg/m ² of approved brand by the Engineer on internal surface of RCC waste water sewer Pipe including preparation of surface, application of primer complete in all respect as per specification.	14,730.10	Sft		
16	Refilling the excavated soil, watering and compacting in layers of 6" by plate compactor, Sheep Foot Roller, Power Roller or any appropriate compaction equipment with optimum moisture content.				
	(a) For 95-100% modified AASHO density.	70.48	1000 Cft.		
	(b) For 90% modified AASHO density.	70.48	1000 Cft.		
17	Supplying and filling sand over RCC pipe line and under road structure.	163.40	100Cft.		
18	Transportation including loading and unloading of earth all types. (Same material may be transported back, if required)				
	a) upto ¼ mile (400 m).	36,215.06	Cft		
	b) for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	36,215.06	Cft		
	c) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km.)	36,215.06	Cft		
	d) for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km) upto 35 km.	36,215.06	Cft		
19	Designing, manufacturing/fabrication, testing at manufacturer's works, furnishing, installing, painting, testing and commissioning at Site, placing in satisfactory operating conditions of horizontal non clogging trolley mounted pumping set (including diesel Engine) with 15m head for diversion/ disposal of wastewater during construction of RCC pipe line at lower depth and for pumping out water found at any depth from trenches and manholes along with suction and delivery pipes of adequate length as per specifications and as approved by the Engineer. (Pump set shall be handed over to KWSB after the completion of the Project.				
i)	Capacity 2 cusec	2.00	No		
ii)	Capacity 5 cusec	2.00	No		
20	H.S diesel for trolley mounted Pumping set to be consumed as per direction of the Engineer	33,600.00	Liters		
	MANHOLES				
21	Excavation for pipe line in trenches, and pits in all kind of soil murum including	18.89	1000 Cft.		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	trimming and dressing sides to true alignment and shape, leveling of beds of trenches to correct level and grade cutting joints holes and disposal of surplus earth with in a one chain as directed by the Engineer, providing fence guard (GI Sheet barricade), light, flags and temporary crossing for non vehicular traffic where ever required lift upto 5 ft (1.52 m) and lead upto one chain (100 ft)				
22	Excavation for pipe line in trenches, and pit in hard soils including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer, providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non vehicular traffic where ever required lift upto 5 ft. (1.52 m) and lead upto one chain (100 ft).	6.75	1000 Cft.		
23	Excavation for pipe line in trenches, and pits in soft rock by hammering and chiseling where blasting is not practicable or prohibited including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52 m) and lead upto one chain (100 ft).	1.35	1000 Cft.		
24	Extra for slush or daldal including dewatering.	2.70	1000 Cft.		
25	Add for additional lift of every three ft. or part thereof in excavation for pipelines & storage tanks trenches and pits.				
i)	5 ft. to 8 ft. (1.5 to 2.4 m) depth	55.96	1000 Cft.		
ii)	8 ft. to 11 ft. (2.4 to 3.9 m) depth	33.57	1000 Cft.		
iii)	11 ft. to 14 ft. (3.9 to 5.5 m) depth	28.61	1000 Cft.		
iv)	14 ft. to 17 ft. (5.5 to 6.4 m) depth	22.37	1000 Cft.		
v)	17 ft. to 20 ft. (6.4 to 7.3 m) depth	13.05	1000 Cft.		
26	Providing and laying plain cement concrete including all kind of form work, hoisting, placing compacting, finishing, curing complete in all respect as shown on the drawing.				
i)	Minimum cylindrical strength 1500 psi (Lean)	1.15	100Cft		
ii)	Minimum cylindrical strength 3000 psi (Benching)	4.25	100Cft		
27	Providing and laying cement concrete having 4000 psi cylindrical strength including all kind of form work/ mould, hoisting, placing, compacting, finishing	2.76	100 Cft		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	and curing complete in all respect as shown on the drawing. (Manholes and RCC pipe casing concrete for repairing of crown)				
28	Providing and laying Precast reinforced cement concrete having 4000 psi cylindrical strength including all kind of form work, compensation for special mould, hoisting, placing, compacting, finishing, curing, handling, lifting, transporting, lowering in trench and fixing complete in all respect as shown on the drawing.	52.02	100 Cft		
29	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also include removal of rust)				
	Using Tor bars (Grade-60)	223.63	100 Kg		
30	Bitumen coating to plastered or cement concrete surface (20 lbs per 100 Sft).	46.77	100Sft		
31	Providing and fixing 36" dia 8" thick R.C.C. manhole cover including all reinforcement complete in all respect per drawing, specifications and as directed by the Engineer.	20.00	Each		
32	Refilling the excavated soil, watering and compacting in layers of 6" by Sheep Foot Roller, Power Roller or any appropriate compaction equipment with optimum moisture content.				
	(a) For 95-100% modified AASHTO density.	9.80	1000 Cft.		
	(b) For 90% modified AASHTO density.	9.80	1001 Cft.		
33	Providing and fixing Malleable Iron Steps (weight not less than 5 Kg) in manholes, conforming to specification as per drawing including carriage and setting the same to correct line and levels to complete satisfaction of the Engineer.	232.00	Each		
34	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tends etc. including cutting, tanks etc. including cutting, drilling riveting, handling assembling and fixing including erection in position. . (For Fixing of MS 3/8" sheet over RCC pipe for Repairing of Crown failed Pipe)	17.39	100Kg		
35	Providing, manufacturing and fixing of 1'-6" wide MS collar 12mm (1/2") thickness with rubber gasket all around at the joint of RCC sewer pipe with bolts including cutting, rolling, carriage from market to site, cost of labour and hire charges of machinery for lowering and fixing of MS collar complete in all respects to satisfaction of The Engineer				

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
i)	For 12" i/d RCC sewer Pipe	20.00	Each		
ii)	For 24" i/d RCC sewer Pipe	30.00	Each		
36	Removal of debris and silt from crown failed RCC pipe complete in all respect.				
i)	For 12" i/d RCC sewer Pipe	160.00	Rft		
ii)	For 24" i/d RCC sewer Pipe	240.00	Rft		
B	Restoration of Road				
1	Subgrade Preparation in Earth Cut	26,980	Sft		
2	Granular Subbase	13,486	Cft		
3	Aggregate Base Course	17,798	Cft		
4	Asphaltic Base Course Plant mix (Class B)	6,899	Cft		
5	Cut -Back Asphalt for Bituminous Prime Coat	25,872	Sft		
6	Cut -Back Asphalt for Bituminous Tack Coat	25,872	Sft		
7	Asphaltic Concrete for Wearing Course (Class "A")	4,312	Cft		
8	Providing and laying plain cement concrete including all kind of form work, hoisting, placing compacting, finishing, curing complete in all respect as shown on the drawing.				
i)	Minimum cylindrical strength 3000 psi (PCC Road)	11.00	Cft		
ii)	Minimum cylindrical strength 3000 psi (Lean concrete)	3	Cft		
9	Precast Curb in Concrete Class A-1 of size 450 x 150 mm Including Bedding & Haunching	4,532	Rft		
10	Pavement Marking in Reflective TP Paint for line of 15cm width	5,749	Rft		
11	Reflectorised Plastic Pavement Studs (Raised Profile Type - Single/Double)	4,312	Each		
12	Traffic Road Signs, Triangular Category -1	3	Each		
13	Traffic Road Signs, Circular, Category - 2	3	Each		
TOTAL BILL NO. 2					

BILL NO. 3: EMP IMPLEMENTATION COST

Sr. No.	Description	Unit	Quantity (1)	Rate [PKR] (2)	Amount [PKR] (3= (1) x (2))
A)	Health, Safety & Environment (HSE)				
1	Medical screening for workers	Persons	120		
2	Tarpaulins	Each	12		
3	Handling of hazardous material	Per Month	2		
4	Handling of solid waste	Per Month	2		
5	DCP Fire extinguishers in case of fire	Each	12		
	CO2 Fire extinguishers in case of fire	Each	12		
	Fire alarm	Each	12		
6	Special Measures for Covid-19	-	L.S		
B)	Personal Protective Equipment (PPE)				

Sr. No.	Description	Unit	Quantity (1)	Rate [PKR] (2)	Amount [PKR] (3= (1) x (2))
1	Ear plugs	Each	240		
2	Helmets	Each	120		
3	Safety shoes	Each	120		
4	Protective goggles	Each	120		
5	Gloves	Each	240		
6	H ₂ S Mask & Kit	Each	12		
7	Dust Mask	Each	960		
8	Face Shield	Each	12		
9	First Aid Kit	Each	12		
C)	Institutional Strengthening Cost				
1	Environmental Expert/ HSE Expert (02x01 Nos.)	Per month	02		
2	Social / Resettlement / Gender Expert (02x01 Nos.)	Per Month	02		
D)	Institutional Training				
1	Environment code of practices/ Gender Aspects	Nos.	01		
2	Awareness workshop regarding Covid 19 and other vector borne diseases	Nos.	01		
3	Waste Management	Nos.	01		
4	Community/ occupational health and safety	Nos.	01		
TOTAL AMOUNT BILL NO. 3					

BILL NO. 4: PROVISIONAL SUMS

Sr. No.	Description	Unit	Quantity	Rate [PKR]	Amount [PKR]
	<i>The following items shall be provided complete in all respects and up to the satisfaction of The Project Manager / The Employer. Payment will be made as per actual bills.</i>				
1	Provisional Sum for Shifting of Utilities including gas, electricity, telecom, etc. (where required)	-	-	-	3,500,000
2	Providing Supervisory Staff Facilities	-	-	-	3,500,000
TOTAL AMOUNT BILL NO. 4					

Summary Lot-2 (District South)	Amount (PKR)
BILL NO. 1: REPAIR OF WATER SUPPLY LINES	
BILL NO. 2: REPAIR OF SEWER LINES	
BILL NO. 3: EMP IMPLEMENTATION COST	
BILL NO. 4: PROVISIONAL SUMS	
Sub-Total	
Sales Tax @13%	
Price for Lot-2 (Carried forward to Grand Summary)	

LOT-3: DISTRICT KEAMARI

BILL NO. 1: REPAIR OF WATER SUPPLY LINES

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
	<i>Supply, installation, testing, disinfection and commissioning of the following items of work (unless specifically stated otherwise) including all jointing material, wastages, labour, tools, accessories and other incidentals, etc. required for completion of each item as per specification, drawings and as directed by the Engineer/ Project Manager. (Provisional Quantities have been taken, to be executed after approval of the Engineer)</i>				
	CIVIL WORKS				
1	Breaking of Existing Road Pavement Structure	38.00	100 Cft		
2	Dismantling plain cement concrete	1.00	100 Cft		
3	Dismantling reinforced cement concrete separating reinforcement from concrete cleaning and straightening the same.	4.00	100 Cft		
4	Excavation for pipe line in trenches, and pits in all kind of soils of murum including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	15.00	1,000 Cft		
5	Excavation for pipe line in trenches and pit in hard soils including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	7.50	1,000 Cft		
6	Excavation for pipe line in trenches, and pits in soft rock by hammering and chiseling where blasting is not practicable or prohibited including trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer. Providing fence guards (GI Sheet barricade), lights, flags and temporary crossings for non- vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (100 ft).	2.50	1,000 Cft		
7	Earth for slush or Daldal including dewatering	7.50	1,000 Cft		
8	Add for additional lift of every three ft. or part thereof in excavation for pipelines & storage tanks trenches and pits.				
i)	Lift from 5 ft to 8ft	7.00	1,000 Cft		
ii)	Lift from 8 ft to 11ft	6.00	1,000 Cft		
iii)	Lift from 11 ft to 14ft	2.00	1,000 Cft		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
9	Providing, laying and compacting (90% modified AASHTO) sewer pipe bedding. The bedding material shall be well graded granular fill with fine particles not more than 15%. The granular fill aggregate shall be 1" to 1-1/2" size complete in all respect as per drawings, specification and direction by the Engineer.	8	100 Cft		
10	Supplying and filling sand over pipe line under road structure.	12.00	100 Cft		
11	Providing and laying plain cement concrete including all kind of form work, hoisting, placing compacting, finishing, curing complete in all respect as shown on the drawing.				
	Minimum cylindrical strength 3000 psi	1.00	100 Cft		
	CHAMBERS				
12	Providing and laying cement concrete including all kind of formwork, hoisting, placing, compacting, finishing, curing complete in all respect as shown on the drawing. Minimum cylindrical strength 1500 PSI	1.00	100 Cft.		
13	Providing and laying reinforced cement concrete having 3000 psi cylindrical strength including all kind of form work, hoisting, placing, compacting, finishing and curing complete in all respect as shown on the drawing	3.00	100 Cft		
14	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also include removal of rust). Using Tor bars (Grade-60)	14.00	100 Kg		
15	Providing "expansion joint" in concrete work of 9" wide corrugated PVC waterstop (with bulb), confirming to ASTM D2240 and D638 Type IV, including soldering cost of material and labour etc. complete.	37.33	Rft		
16	Bitumen coating to plastered or cement concrete surface (20 lbs per 100 Sft).	3.00	100 Sft		
17	Providing and fixing 6" thick R.C.C. manhole cover including all reinforcement with tee shaped C.I. frame of 22" i/d (frame weighing 37.324 Kg) complete in all respect per Drawing, Specifications and as directed by the Engineer.	2.00	Each		
18	Providing and fixing Malleable Iron Steps (weight not less than 5 Kg) in manholes, conforming to specification as per drawing including carriage and setting the same to correct line and levels to complete satisfaction of the Engineer.	8.00	Each		
19	RESTORATION OF ROAD				
i)	Compaction of Natural Ground	26.00	100 Sft		
ii)	Formation of Embankment from Borrow Excavation in common material	52.00	100 Cft		
iii)	Subgrade Preparation in Earth Cut	26.00	100 Sft		
iv)	Granular Subbase	19.00	100 Cft		
v)	Aggregate Base Course	26.00	100 Cft		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4 = (1) x (3))
vi)	Asphaltic Base Course Plant mix (Class B)	5.00	100 Cft		
vii)	Cut -Back Asphalt for Bituminous Prime Coat	26.00	100 Sft		
viii)	Cut -Back Asphalt for Bituminous Tack Coat	26.00	100 Sft		
ix)	Asphaltic Concrete for Wearing Course (Class "A")	5.00	100 Cft		
20	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	20.00	1,000 Cft		
21	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m)				
	a) upto ¼ mile (400 m).	5.00	1000 Cft.		
	b) for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	5.00	1000 Cft.		
	c) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	5.00	1000 Cft.		
	d) for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km). For Lead 35 Km.	5.00	1000 Cft.		
	PIPING/ MECHANICAL WORKS				
22	Designing, manufacturing/fabrication, testing at manufacturer's works, furnishing, installing, painting, testing and commissioning at Site, placing in satisfactory operating conditions of horizontal non clogging trolley mounted pumping set (including diesel Engine) with 15m head for diversion/ disposal of wastewater during construction of pipe line at lower depth and for pumping out water found at any depth from trenches and Chambers along with suction and delivery pipes of adequate length as per specifications and as approved by the Engineer. (Pump set shall be handed over to KWSB after the completion of the Project.				
i)	Capacity 2 cusec	2.00	No		
23	H.S diesel for trolley mounted Pumping set to be consumed as per direction of the Engineer	9,600	Liters		
24	Providing, fixing, jointing and testing of C.I flanged sluice/ gate valve of approved quality, including nuts, bolts, gasket and washers etc. complete in all respect as per drawings, specifications and as directed by the engineer.				
i)	10" i/d	1.00	Each		
ii)	33" i/d	1.00	Each		
25	Providing and fixing double orifice Air Valve 3" internal dia of BSS quality and weight including the cost of jointing material with all fittings and accessories complete in all respect as approved by the Engineer.	1.00	Each		
26	Providing, fixing, jointing and testing of MS flanges including Rubber Gasket complete in all respect as per drawings, specifications and as directed by the engineer.				
i)	280 mm	4.00	Each		
ii)	1000 mm	4.00	Each		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
27	Providing, fixing, jointing and testing of M.S. Tail Piece (Dholki) on existing pipes (PRCC, AC etc.) to join HDPE pipe, fabricated with 3/8" thick M.S. plate including the cost of labour and sealing material etc. complete in all respect as per drawings, specifications and as directed by the engineer				
i)	10" i/d	2.00	Each		
ii)	33" i/d	2.00	Each		
28	Providing, laying, cutting, butt fusion jointing, testing, commissioning & disinfecting the High Density Polyethylene Pipe (HDPE) PE-100, PN-8 (SDR 21) conforming to ISO 4427 or DN8074/8075 or equivalent to the satisfaction of Engineer. The pipe shall be from reputable manufacturer approved by the Engineer.				
i)	280 mm	165.00	Rft.		
ii)	1000 mm	44.00	Rft.		
29	Providing, laying, jointing, testing, disinfecting and commissioning of the High Density Polyethylene Pipe fittings and specials such as bend, Tee, Taper core, stab end etc. (HDPE) (PE-100), PN 10 (SDR 17) conforming to relevant ASTM standard and ISO 4427, DIN 8074/75 complete in all respects (Including Injection moulded fittings) as approved by the Engineer.				
	Bends				
i)	280 mm	1.00	Each		
ii)	1000 mm	1.00	Each		
	Tees				
i)	280 mm	1.00	Each		
ii)	1000 mm	1.00	Each		
iii)	Reducers				
iv)	280 mm	1.00	Each		
v)	1000 mm	1.00	Each		
	Reducing Tee				
i)	280 mm	1.00	Each		
ii)	1000 mm	1.00	Each		
	Stub Ends				
i)	280 mm	2.00	Each		
ii)	1000 mm	2.00	Each		
30	Providing & fixing MS Split collar on PRCC pipe, 18" wide fabricated with 1/8" thick M.S plate 1-1/4" wide 1/8" thick ring at centre, 1/2" thick M.S square bar on both ends. It includes the cost of 4 nos- 1/2" thick flanges, nuts & bolts rubber packing ,labour and the sealing material.				
i)	10" i/d	1.00	Each		
31	Providing & fixing MS Split collar on PRCC pipe, 18" wide fabricated with 3/8" thick M.S plate 1-1/4" wide 3/8" thick ring at centre, 3/4" thick M.S square bar on both ends. It includes the cost of 4 nos- 3/4" thick flanges, nuts & bolts rubber packing ,labour and the sealing material.				
i)	33" i/d	5.00	Each		

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4 = (1) x (3))
32	Providing & fixing M.S Split stepped collar on PRCC pipe, 18" wide fabricated with 1/8" thick M.S plate, 1/2" thick M.S square bars on both ends. It includes the cost of 4 nos- 1/2" thick M.S flanges, nut & bolts rubber packing, labour and the sealing material.				
ii)	10" i/d	1.00	Each		
33	Providing & fixing M.S Split stepped collar on PRCC pipe, 18" wide fabricated with 3/8" thick M.S plate, 3/4" thick M.S square bars on both ends. It includes the cost of 4 nos- 3/4" thick M.S flanges, nut & bolts rubber packing, labour and the sealing material.				
i)	33" i/d	5.00	Each		
34	Repair of leaking joint on PRCC Pipe of following diameters. It includes the cost of sealing with gunny bags, spun yarn, lead wool, rapid hardening cement etc. complete in all respect				
ii)	6" i/d	1.00	Each		
iii)	8" i/d	1.00	Each		
iv)	10" i/d	1.00	Each		
v)	12" i/d	1.00	Each		
vi)	16" i/d	1.00	Each		
vii)	18" i/d	1.00	Each		
viii)	33" i/d	1.00	Each		
ix)	48" i/d	1.00	Each		
x)	66" i/d	1.00	Each		
35	Repair of leaking joint on MS Pipes including the cost of cutting the damaged portion of pipe and replace it with 3/8" thick MS sheet, welding etc. complete in all respect	50.00	Sft		
36	Providing & fixing Rubber Packing under M.S Collars for making it water tight complete in all aspects, as per drawings, specifications and as directed by the Engineer.	190.64	KG		
TOTAL BILL NO. 1					

BILL NO. 2: EMP IMPLEMENTATION COST

Sr. No.	Description	Unit	Quantity (1)	Rate [PKR] (2)	Amount [PKR] (3 = (1) x (2))
A)	Health, Safety & Environment (HSE)				
1	Medical screening for workers	Persons	10		
2	Tarpaulins	Each	1		
3	Handling of hazardous material	Per Month	2		
4	Handling of solid waste	Per Month	2		
5	DCP Fire extinguishers in case of fire	Each	1		
	CO2 Fire extinguishers in case of fire	Each	1		
	Fire alarm	Each	1		
6	Special Measures for Covid-19	-	L.S		
B)	Personal Protective Equipment (PPE)				
1	Ear plugs	Each	20		

Sr. No.	Description	Unit	Quantity (1)	Rate [PKR] (2)	Amount [PKR] (3= (1) x (2))
2	Helmets	Each	10		
3	Safety shoes	Each	10		
4	Protective goggles	Each	10		
5	Gloves	Each	20		
6	H ₂ S Mask & Kit	Each	10		
7	Dust Mask	Each	80		
8	Face Shield	Each	5		
9	First Aid Kit	Each	5		
C)	Institutional Strengthening Cost				
1	Environmental Expert/ HSE Expert (04x01 Nos.)	Per month	02		
2	Social / Resettlement / Gender Expert (04x01 Nos.)	Per Month	02		
D)	Institutional Training				
1	Environment code of practices/ Gender Aspects	Nos.	01		
2	Awareness workshop regarding Covid 19 and other vector borne diseases	Nos.	01		
3	Waste Management	Nos.	01		
4	Community/ occupational health and safety	Nos.	01		
TOTAL AMOUNT BILL NO. 3					

BILL NO. 3: PROVISIONAL SUMS

Sr. No.	Description	Unit	Quantity	Rate [PKR]	Amount [PKR]
	<i>The following items shall be provided complete in all respects and up to the satisfaction of The Project Manager / The Employer. Payment will be made as per actual bills.</i>				
1	Provisional Sum for Shifting of Utilities including gas, electricity, telecom, etc. (where required)	-	-	-	3,500,000
2	Providing Supervisory Staff Facilities	-	-	-	3,500,000
TOTAL AMOUNT BILL NO. 4					

Summary Lot-3 (District Keamari)	Amount (PKR)
BILL NO. 1: REPAIR OF WATER SUPPLY LINES	
BILL NO. 2: EMP IMPLEMENTATION COST	
BILL NO. 3: PROVISIONAL SUMS	
Sub-Total	
Sales Tax @13%	
Price for Lot-3 (Carried forward to Grand Summary)	

LOT-4: MANHOLE COVER WITH RING SLAB

Sr. No.	Description	Quantity (1)	Unit (2)	Rate [PKR] (3)	Amount [PKR] (4= (1) x (3))
1	Manufacturing and providing at divisional offices of KW&SB R.C.C. manhole cover with R.C.C Ring Slab including all reinforcement complete in all respect as per drawing, specifications and as directed by the Engineer. (Provisional Quantities have been taken, to be executed after approval of the Engineer.)	1,000.00	Nos.		
Sub-Total					
Sales Tax @13%					
Price for Lot-4 (Carried forward to Grand Summary)					

GRAND SUMMARY

Lot	Description	Amount (PKR)
LOT-1	DISTRICT CENTRAL	
LOT-2	DISTRICT EAST	
LOT-3	DISTRICT KORANGI & MALIR	
LOT-4	MANHOLE COVER WITH RING SLAB	

Dayworks

A. Preamble

Reference should be made to Clause 47 of Conditions of Contract. Work shall not be executed on a Daywork basis except by written order by the Project Manager. Contractors shall be entitled to payment in respect of Labour, Material and Plant used for dayworks, at the rates given in the schedules of Dayworks.

Rates indicated in schedules of Dayworks should cover all administration and financial cost including Contractor's overhead, profit, duties, taxes, transportation, cost of liaison with external agencies and all other costs related to Dayworks.

Daywork Labour

Only the time of classes of labour directly doing work ordered by the Project Manager and for which they are competent to perform will be measured. The time of gangers (charge hands) actually doing the work with the gangs will also be measured but not the time of foremen or other supervisory personnel.

The given rate shall cover; all direct costs to the Contractor, including the amount of wages paid to such labour, transportation time, overtime, subsistence, allowances, medical and any sums paid to or on behalf of such labour for social benefits in accordance with Government of Sind Labour Law.

Daywork Materials

The given rates shall cover; the price, freight, insurance, handling, expenses, damage, losses, etc., and shall provide for delivery to store for stock piling at the site; and

should cover all administration and financial cost including Contractor's overhead, profit, duties, taxes, transportation, cost of liaison with external agencies and all other costs related to Daywork Materials.

The Contractor must submit his receipts/bills to the Project Manager in support of all Dayworks materials payment claims.

Daywork Constructional Plant

In calculating the payment due to the Contractor for Constructional Plant employed on daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Project Manager, the travelling time from the part of the Site where the Construction Plant was located when ordered by the Project Manager to be employed on daywork and the time for return journey thereto shall not be included for payment. The cost of drivers and operators will be paid separately as described under the section on "Daywork Labour".

The given rate shall cover; due and complete allowances for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other

consumables, and all overhead profit and administrative costs related to the use of such equipment; and

should cover all administration and financial cost including Contractor's overhead, profit, duties, taxes, transportation, cost of liaison with external agencies and all other costs related to Dayworks of Constructional Plant.

B. Items

Sr. No.	Description	Unit	Rate (PKR)
I. Labour			
1.	Mason (Raj)	Per Day	
2.	Labourer	Per Day	
3.	Plumber	Per Day	
4.	Dresser Earth work	Per Day	
5.	Waterman	Per Day	
6.	Helper	Per Day	
7.	Hammer Man	Per Day	
8.	Skilled Worker	Per Day	
9.	Unskilled Worker	Per Day	
10.	Welder	Per Day	
11.	Pipe Fitter	Per Day	
12.	Driver	Per Day	
13.	Operator	Per Day	
II. MATERIALS			
14.	M.S. Flange		
	i) 4" i/d	Each	
	ii) 6" i/d	Each	
	iii) 8" i/d	Each	
	iv) 12" i/d	Each	
	v) 16" i/d	Each	
	vi) 18" i/d	Each	
	vii) 24" i/d	Each	
	viii) 33" i/d	Each	
	ix) 36" i/d	Each	
	x) 48" i/d	Each	
	xi) 54" i/d	Each	
15.	M.S. Tail Piece/ Dholki		
	i) 4" i/d	Each	
	ii) 6" i/d	Each	
	iii) 8" i/d	Each	
	iv) 12" i/d	Each	
	v) 16" i/d	Each	
	vi) 18" i/d	Each	
	vii) 24" i/d	Each	
	viii) 33" i/d	Each	
	ix) 36" i/d	Each	
	x) 48" i/d	Each	
	xi) 54" i/d	Each	
16.	M.S. Tail Piece/ Dholki		
	i) 4" i/d	Each	
	ii) 6" i/d	Each	
	iii) 8" i/d	Each	
	iv) 12" i/d	Each	
	v) 16" i/d	Each	
	vi) 18" i/d	Each	
	vii) 24" i/d	Each	
	viii) 33" i/d	Each	
	ix) 36" i/d	Each	
	x) 48" i/d	Each	

Sr. No.	Description	Unit	Rate (PKR)
	xi) 54" i/d	Each	
17.	M.S. Split Collar		
	i) 4" i/d	Each	
	ii) 6" i/d	Each	
	iii) 8" i/d	Each	
	iv) 12" i/d	Each	
	v) 16" i/d	Each	
	vi) 18" i/d	Each	
	vii) 24" i/d	Each	
	viii) 33" i/d	Each	
	ix) 36" i/d	Each	
	x) 48" i/d	Each	
	xi) 54" i/d	Each	
18.	M.S. Split Stepped Collar		
	i) 4" i/d	Each	
	ii) 6" i/d	Each	
	iii) 8" i/d	Each	
	iv) 12" i/d	Each	
	v) 16" i/d	Each	
	vi) 18" i/d	Each	
	vii) 24" i/d	Each	
	viii) 33" i/d	Each	
	ix) 36" i/d	Each	
	x) 48" i/d	Each	
	xi) 54" i/d	Each	
19.	HDPE Pipe PE-100 PN-8		
	i) 125 mm	Per Rft	
	ii) 180 mm	Per Rft	
	iii) 225 mm	Per Rft	
	iv) 280 mm	Per Rft	
	v) 355 mm	Per Rft	
	vi) 450 mm	Per Rft	
	vii) 500 mm	Per Rft	
	viii) 1000 mm	Per Rft	
	ix) 1400 mm	Per Rft	
	x) 1600 mm	Per Rft	
20.	HDPE Bend PE-100 PN-10		
	i) 125 mm	Each	
	ii) 180 mm	Each	
	iii) 225 mm	Each	
	iv) 280 mm	Each	
	v) 355 mm	Each	
	vi) 450 mm	Each	
	vii) 500 mm	Each	
	viii) 1000 mm	Each	
	ix) 1400 mm	Each	
	x) 1600 mm	Each	
21.	HDPE Tee PE-100 PN-10		
	i) 125 mm	Each	
	ii) 180 mm	Each	
	iii) 225 mm	Each	
	iv) 280 mm	Each	
	v) 355 mm	Each	
	vi) 450 mm	Each	
	vii) 500 mm	Each	
	viii) 1000 mm	Each	
	ix) 1400 mm	Each	
	x) 1600 mm	Each	

Sr. No.	Description	Unit	Rate (PKR)
22.	HDPE Reducers PE-100 PN-10		
	i) 125 mm	Each	
	ii) 180 mm	Each	
	iii) 225 mm	Each	
	iv) 280 mm	Each	
	v) 355 mm	Each	
	vi) 450 mm	Each	
	vii) 500 mm	Each	
	viii) 1000 mm	Each	
	ix) 1400 mm	Each	
	x) 1600 mm	Each	
23.	HDPE Reducing Tees PE-100 PN-10		
	i) 125 mm	Each	
	ii) 180 mm	Each	
	iii) 225 mm	Each	
	iv) 280 mm	Each	
	v) 355 mm	Each	
	vi) 450 mm	Each	
	vii) 500 mm	Each	
	viii) 1000 mm	Each	
	ix) 1400 mm	Each	
	x) 1600 mm	Each	
24.	HDPE Stub End PE-100 PN-10		
	i) 125 mm	Each	
	ii) 180 mm	Each	
	iii) 225 mm	Each	
	iv) 280 mm	Each	
	v) 355 mm	Each	
	vi) 450 mm	Each	
	vii) 500 mm	Each	
	viii) 1000 mm	Each	
	ix) 1400 mm	Each	
	x) 1600 mm	Each	
25.	Gunny Bags	Each	
26.	Rubber Packing/ Sheet 6mm Thick	Per Rft	
27.	Spun Yarn	Each	
28.	Lead wool	Per Kg	
29.	Nail bolts and nuts	Kg	
30.	RCC sewer pipe Class II Wall B (4000 PSI) conforming to ASTM C-76		
	i) 12" i/d	Per Rft	
	ii) 18" i/d	Per Rft	
	iii) 24" i/d	Per Rft	
	iv) 30" i/d	Per Rft	
	v) 36" i/d	Per Rft	
	vi) 48" i/d	Per Rft	
	vii) 54" i/d	Per Rft	
31.	RCC sewer pipe Class III Wall B (4000 PSI) conforming to ASTM C-76		
	i) 12" i/d	Per Rft	
	ii) 18" i/d	Per Rft	
	iii) 24" i/d	Per Rft	
	iv) 30" i/d	Per Rft	
	v) 36" i/d	Per Rft	
	vi) 48" i/d	Per Rft	
	vii) 54" i/d	Per Rft	
	viii) 60" i/d	Per Rft	
	ix) 66" i/d	Per Rft	
	x) 72" i/d	Per Rft	
32.	RCC sewer pipe Class IV Wall B (4000 PSI) conforming to ASTM C-76		

Sr. No.	Description	Unit	Rate (PKR)
	i) 12" i/d	Per Rft	
	ii) 18" i/d	Per Rft	
	iii) 24" i/d	Per Rft	
	iv) 30" i/d	Per Rft	
	v) 36" i/d	Per Rft	
	vi) 48" i/d	Per Rft	
	vii) 54" i/d	Per Rft	
	viii) 60" i/d	Per Rft	
	ix) 66" i/d	Per Rft	
	x) 72" i/d	Per Rft	
33.	R.C.C. manhole cover with R.C.C Ring Slab	Nos.	
34.	Coarse Sand	Per Cft	
35.	Sand (Local)	Per Cft	
36.	Masonry Blocks (400x200x400 mm)	Each	
37.	Ordinary Portland Cement in Bags (50 Kg)	Per Bag	
38.	Shingle (Naturally Graded) (Bajri)	Per Cft	
39.	Aggregate / Stone Crushed 3/8" to 1" (Graded)	Per Cft	
40.	M.S. bars (Deformed) (60 grade)	M.Ton	
41.	Bitumen (Bulk) (80/100)	Kg	
42.	Clay/ Good Earth	Per Cft	
43.	M.S. sheets (20 SWG)	Each	
44.	Bitumen (Packed) Grade 80/100	Per Kg	
45.	Rubber Gasket	Rft	
46.	Polythene sheet of 300 gauge	Per Kg	
47.	M.S. Sheet 3/4" thick	Per Kg	
48.	Petrol	Per Liter	
49.	Diesel	Per Liter	
	II. CONSTRUCTIONAL PLANT	Minimum Capacity	Unit
1.	Excavator Wheel mounted with bucket width 0.3,0.45 and 0.6 m	100 HP	Per Hour
2.	Front End Loader- Wheel Mounted	1.4 Cu.m	Per Hour
3.		2.3 Cu.m	Per Hour
4.		3.2 Cu.m	Per Hour
5.	Truck 2 Axle	10 Ton	Per KM
6.	Plate Compactor	2 Ton	Per Hour
7.	Rammer Compactor	80 Kg	Per Hour
8.	Generator	5 KVA	Per Hour
9.		10 KVA	Per Hour
10.		50 KVA	Per Hour
11.	Night Lighting Equipment	2500 Watt	Per Hour
12.	Mobile Crane	2 Ton	Per Hour
13.		5 Ton	Per Hour
14.		10 Ton	Per Hour
15.		20 Ton	Per Hour
16.	Trailer Truck for Pipe Transport	17 Ton	Per KM
17.	Concrete Mixer	6 Cu.m	Per Hour
18.	Water Tanker	2000 Gallon	Each
19.		5000 Gallon	Each
20.	Concrete Vibrator	0.4 Kw	Per Hour
21.	Dewatering Pumps with hoses	2 Cusec	Per Hour
22.		5 Cusec	Per Hour
23.		10 Cusec	Per Hour
24.	Dump truck	18 Ton	Per KM
25.	Sheep foot Roller	2-50 Ton	Per Hour
26.	Road Roller DDR	8-12 Ton	Per Hour
27.	Pneumatic roller	9-24 Ton	Per Hour
28.	Asphalt Paver	500-1000 Ton/Hour	Per Hour
29.	Pipe Cutter/ Grinder including cutting wheels	-	Per Hour
30.	Asphalt Cutter with Diamond Disc	-	Per Hour

B. Technical Proposal

The Contractor shall provide:

- the names and details of the suitably qualified key personnel to perform the Contract
- adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment for the Contract
- information on Site organization
- its method statement on the execution of the works
- mobilization and construction schedule
- In case an offeror desires to participate in more than one lot, the requirement shall be to propose separate resources for each lot in its technical proposal.
- A summary of other information, if any, that the Contractor considers relevant

C. Form of Bid Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Insert name and address of the Employer]*

Request for Quotations No: *_[Insert reference number for the Request for Quotations]*

Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *_[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *[insert name of the Contractor, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Quotation (hereinafter called "the Quotation ") for the execution of *[insert description of contract]* under Request for Quotations No. *[insert number]* ("the RFQ").

Furthermore, we understand that, according to the Beneficiary's conditions, Quotations must be supported by a Bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in letters]* (*insert amount in numbers*) upon receipt by us of the Beneficiary's complying supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- (a) has withdrawn its Quotation during the period of validity of Quotations specified by the Applicant in the Contractor Quotation Form ("the Quotation Validity"), or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Quotation by the Beneficiary during the period of validity Quotation, (i) fails to execute the contract agreement or (ii) fails to furnish the performance security in accordance with the of Beneficiary's RFQ.

This guarantee will expire: (a) if the Applicant is the successful Contractor, upon our receipt of copies of the contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such contract agreement; and (b) if the Applicant is not the successful Contractor, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the bidding process; or (ii) twenty-eight days after the end of the Quotation Validity.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.

[signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

ANNEX 3: Contract Forms

Contract Agreement

THIS AGREEMENT made theday of, between **Project Implementation Unit (PIU), Karachi Water & Sewerage Services Improvement Project (KWSSIP)** (hereinafter “the Employer”), of the one part, and *[name of the Contractor]*.(hereinafter “the Contractor”), of the other part:

WHEREAS the Employer invited a Quotation for the execution of Works, _____ *[insert brief description of the Works]*, and has accepted the Quotation by the Contractor for the Works:

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - (a) the Letter of Award of Contract
 - (b) the Contractor’s Quotation
 - (c) the Conditions of Contract, including Appendices
 - (d) the Specifications
 - (e) the Drawings
 - (f) Bill of Quantities; and
 - (g) any other document listed in the CC as forming part of the Contract.
3. In consideration of the payments to be made by the Employer to the Contractor as specified in this Agreement, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Islamic Republic of Pakistan on the day, month and year specified above.

Signed by: _____
for and on behalf of the Employer

Signed by: _____
for and on behalf the Contractor

in the presence of: _____
Witness, Name, Signature, Address, Date

in the presence of: _____
Witness, Name, Signature, Address, Date

Conditions of Contract

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Conditions of Contract

A. General

1. Definitions
- 1.1 The following words and expressions shall have the meanings hereby assigned to them. Boldface type is used to identify defined terms.
- (a) The **Accepted Contract Amount** means the amount accepted in the Letter of Award of Contract for the execution and completion of the Works and the remedying of any defects.
 - (b) The **Activity Schedule** is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump-sum contract. It includes a lump-sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events.
 - (c) The **Adjudicator** is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in **CC 21**.
 - (d) **“Bank”** means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).
 - (e) **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Contractor’s Quotation.
 - (f) **Compensation Events** are those defined in **CC 40**.
 - (g) The **Completion Date** is the date of completion of the Works as certified by the Project Manager, in accordance with **CC 49.1**.
 - (h) The **Contract** is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in **CC 3.3** below.
 - (i) The **Contractor** is the party whose Quotation to carry out the Works has been accepted by the Employer.
 - (j) The **Contractor’s Quotation** is the completed quotation document submitted by the Contractor to the Employer.
 - (k) The **Contract Price** is the Accepted Contract Amount stated in the Letter of Award of Contract and thereafter

as adjusted in accordance with the Contract.

- (l) **Days** are calendar days; months are calendar months.
- (m) **Dayworks** are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.
- (n) A **Defect** is any part of the Works not completed in accordance with the Contract.
- (o) The **Defects Liability Certificate** is the certificate issued by Project Manager upon correction of defects by the Contractor.
- (p) The **Defects Liability Period** is the period specified in **CC 2.12** and calculated from the Completion Date.
- (q) **Drawings** means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Employer in accordance with the Contract, include calculations and other information provided or approved by the Project Manager for the execution of the Contract.
- (r) The **Employer** is the party who employs the Contractor to carry out the Works, **as specified in CC 2.1.**
- (s) **Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.
- (t) "**In writing**" or "**written**" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.
- (u) The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works as specified in **CC 2.1.**
- (v) **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.
- (w) **Plant** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.
- (x) The **Project Manager** is the person named in **CC 2.1** (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract.
- (y) The **Site** is the area defined as such in the **CC 2.1.**

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- (z) **Site Investigation Reports** are those, if any, that were included in the request for quotations documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.
 - (aa) **Specifications** means the Specifications of the Works included in the Contract and any modification or addition made or approved by the Project Manager.
 - (bb) The **Start Date** is **given in CC 2.1**. It is the latest date when the Contractor shall commence execution of the Works.
 - (cc) A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.
 - (dd) **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.
 - (ee) A **Variation** is an instruction given by the Project Manager which varies the Works.
 - (ff) The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the **CC 2.1**.
 - (gg) “**Contractor’s Personnel**” refers to all personnel whom the Contractor utilizes on the Site or other places where the Works are carried out, including the staff, labor and other employees of each Subcontractor.
 - (hh) “**Key Personnel**” means the positions (if any) of the Contractor’s personnel that are included in the contract.
 - (ii) “**Sexual Exploitation and Abuse**” “**(SEA)**” means the following:
 - Sexual Exploitation** is defined as 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;
 - Sexual Abuse** is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
 - (jj) “**Sexual Harassment**” “**(SH)**” is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the

Contractor's Personnel with other Contractor's or Employer's Personnel; and

- (kk) **“Employer's Personnel”** refers to the Project Manager and all other staff, labor and other employees (if any) of the Project Manager and of the Employer engaged in fulfilling the Employer's obligations under the Contract; and any other personnel identified as Employer's Personnel, by a notice from the Employer or the Project Manager to the Contractor.

2. Contract Specific Information

2.1 General

- (a) The **Employer** is:

Project Implementation Unit (PIU), Karachi Water & Sewerage Services Improvement Project (KWSSIP)

Address:

Project Implementation Unit (PIU) KWSSIP

40-G, Street 40, Block 6, PECHS, Karachi. Pakistan

City: Karachi, Pakistan

ZIP Code: 75400

Authorized Representative:

Engr. Syed Salahuddin Ahmed

Project Director

- (b) The **Intended Completion Date** for the whole of the Works for each lot shall be:

Lot-1 = February 17, 2023

Lot-2 = February 17, 2023

Lot-3 = February 17, 2023

Lot-4 = February 17, 2023

- (c) The **Project Manager** is:

National Engineering Services Pakistan (Pvt.) Ltd. (NESPAK)

Address:

NESPAK House, 1-C, Block-N, Model Town Extension, P.O. Box 1351, Lahore - 54700, Pakistan

PABX: +92-42-99090000

Authorized Representative:

Chief Resident Engineer or any other official

nominated.

- (d) The **Site** is located at various locations in Karachi and is defined in drawings No. 4321/11/TD/LM01
- (e) The **Start Date** shall be: December 19, 2022
- (f) The Works consist of: Repair/Replacement of Damaged Sections of Water Lines and Sewers at various locations in Karachi. Brief summary of Scope of Work is given in Volume-II.

2.2 Any notice given by one Party to the other pursuant to the Contract shall be in writing to the address hereafter using the quickest available method such as electronic mail with proof of receipt.

Address for notices to the Employer:

Engr. Syed Salahuddin Ahmed

Project Director

Project Implementation Unit (PIU) KWSSIP

40-G, Street 40, Block 6, PECHS, Karachi. Pakistan

City: Karachi, Pakistan

ZIP Code: 75400

Email: engrsalahuddin78@gmail.com,
asif_thebraveheart@hotmail.com

Address for notices to the Contractor:

[insert the name of officer authorized to receive notices, position/title, address and electronic mail address]

2.3 In accordance with **CC 3.2, Sectional Completions** are: None

2.4 The **language** of the Contract is English.

2.5 The Contract shall be governed by the **law** of the Islamic Republic of Pakistan.

The Contract specific information for the listed Conditions of Contract (CC) clauses follows:

2.6 **CC 12:** The minimum **insurance** amounts and deductibles shall be:

- (a) for loss or damage to the Works, Plant and Materials: to the full replacement value plus additional amount

of fifteen percent (15%) of such replacement value to cover any additional costs incidental to rectification of loss or damage, including professional fees and the cost of demolition and removal of debris. The permitted deductible shall not exceed 10% of loss amount on each & every loss.

- (b) for loss or damage to Equipment:
to the full replacement value including delivery to the Site.
- (c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract:
to the full value of loss or damage.
- (d) for personal injury or death:
of the Contractor's employees: as per statutory requirements of the Islamic Republic of Pakistan.
of other people: as per statutory requirements of the Islamic Republic of Pakistan.

The permitted deductible(s) are 'Nil' for para (b), (c) and (d).

- 2.7 **CC 13: Site Data** are: given in Volume-II.
- 2.8 **CC 18: Site Possession Date(s)** shall be: As per the Program for the Works
- 2.9 **CC 21: Appointing Authority of Adjudicator:** Chief Executive Officer/ Managing Director, Karachi Water and Sewerage Board (KW&SB)
- 2.10 **CC 25.1: A Program** for the Works shall be submitted within: three (03) days from the date of the Letter of Award of Contract.
- 2.11 **CC 25.2:** The period for submission of **progress reports** is: seven (07) days
- 2.12 **CC 33:** The **Defects Liability Period** shall be: Three hundred and Sixty Five (365) days from the date of Completion.
- 2.13 **CC 43:** The **retention** amount shall be five (05%) percent.
- 2.14 **CC 44.1:** The **liquidated damages** for the whole of the Works shall be: 0.3 percent of the final Contract Price per day.
- 2.15 **CC 44.1:** The **maximum amount of liquidated damages** for the whole of the Works is: ten (10%) percent of the final Contract Price.
- 2.16 **CC 44.3:** the **Bonus** for the whole of the Works is: None

- 2.17 **CC 45:** The **Advance Payment** shall be: Ten (10%) percent of the Accepted Contract Amount and shall be paid to the Contractor no later than seven (07) days after the Contractor submits an acceptable Bank Guarantee from Scheduled Bank in Pakistan along with corresponding invoice.
- 2.18 **CC 46:** The Performance Security, in the form of Bank Guarantee from Scheduled Bank in Pakistan, shall be for an amount of: Ten (10%) percent of the Accepted Contract Amount.
- 2.19 **CC 52.1:** The date by which operating and maintenance manuals are required is none. In accordance with **CC 52.1**, the date by which “as built” drawings are required is:
- Lot-1 = March 20, 2023
- Lot-2 = March 20, 2023
- Lot-3 = March 20, 2023
- 2.20 **CC 52.2:** The amount to be withheld: PKR 1,000,000.
- 2.21 **CC 54.1:** The percentage to apply to the value of the work not completed is: thirty five (35%) percent

3. Interpretation

- 3.1 In interpreting these CC, words indicating one gender include all genders. Words indicating the singular also include the plural and words indicating the plural also include the singular. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about these CC.
- 3.2 If sectional completion is specified in **CC 2.3**, references in the CC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).
- 3.3 The documents forming the Contract shall be interpreted in the following order of priority:
- (a) the Contract Agreement,
 - (b) The Letter of Award of Contract,
 - (c) The Contractor’s Quotation,
 - (d) the Conditions of Contract, including Appendices,
 - (e) the Specifications,
 - (f) the Drawings,

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- (g) the Bill of Quantities, and
 - (h) any other document.
4. Prohibitions
- 4.1 Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Employer's country when
- (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country; or
 - (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.
5. Project Manager's Decisions
- 5.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.
6. Subcontracting
- 6.1 The Contractor may subcontract with the approval of the Project Manager but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.
7. Cooperation
- 7.1 The Contractor shall cooperate with and allow appropriate opportunities for other contractors, public authorities, utilities, and the Employer, to carry out on or near the Site work, if any, not included in the Contract.
8. Personnel and Equipment
- 8.1 The Contractor shall employ the Key Personnel and use the Equipment identified in its quotation, to carry out the Works or other personnel and Equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of Key Personnel and Equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the quotation.
- 8.2 The Project Manager may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Key Personnel (if any), who:
- (a) persists in any misconduct or lack of care;
 - (b) carries out duties incompetently or negligently;
 - (c) fails to comply with any provision of the Contract;

- (d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment;
- (e) engages in Sexual Harassment, Sexual Exploitation, Sexual Abuse or in any form of sexual activity with individuals under the age of 18 except in case of pre-existing marriage;
- (f) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Works; or
- (g) has been recruited from the Employer's Personnel.

As appropriate, the Contractor shall then promptly appoint (or cause to be appointed) a suitable replacement with equivalent skills and experience.

8.3 Labor

8.3.1 Engagement of Staff and Labor. The Contractor shall provide and employ on the Site for the execution of the Works such skilled, semi-skilled and unskilled labor as is necessary for the proper and timely execution of the Contract. The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labor with appropriate qualifications and experience from sources within the Country.

8.3.2 Labor Laws. The Contractor shall comply with all the relevant labor laws applicable to the Contractor's Personnel, including laws relating to their employment, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights.:

8.3.3 Facilities for Staff and Labor. The Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel.

8.3.4 Supply of Foodstuffs. The Contractor shall arrange for the provision of a sufficient supply of suitable food at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

8.3.5 Supply of Water. The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

8.3.6 Forced Labor. The Contractor, including its Subcontractors, shall not employ or engage forced labor. Forced labor *consists* of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-

contracting arrangements.

No persons shall be employed or engaged who have been subject to trafficking. Trafficking in persons is defined as the recruitment, transportation, transfer, harboring or receipt of persons by means of the threat or use of force or other forms of coercion, abduction, fraud, deception, abuse of power, or of a position of vulnerability, or of the giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purposes of exploitation.

8.3.7 *Child Labor.* The Contractor, including its Subcontractors, shall *not* employ or engage a child under the age of 14 unless the national law specifies a higher age (the minimum age).

The Contractor, including its Subcontractors, shall not employ or engage a child between the minimum age and the age of 18 in a manner that is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.

The Contractor including its Subcontractors, shall only employ or engage children between the minimum age and the age of 18 after an appropriate risk assessment has been conducted by the Contractor with the Project Manager's approval. The Contractor shall be subject to regular monitoring by the Project Manager that includes monitoring of health, working conditions and hours of work.

- (a) Work considered hazardous for children is work that, by its nature or the circumstances in which it is carried out, is likely to jeopardize the health, safety, or morals of children. Such work activities prohibited for children include work: with exposure to physical, psychological or sexual abuse;
- (b) underground, underwater, working at heights or in confined spaces;
- (c) with dangerous machinery, equipment or tools, or involving handling or
- (d) transport of heavy loads;
- (e) in unhealthy environments exposing children to hazardous substances, agents, or processes, or to temperatures, noise or vibration damaging to health; or

- (f) under difficult conditions such as work for long hours, during the night or in confinement on the premises of the employer.

8.3.8 *Employment Records of Workers.* The Contractor shall keep complete and accurate records of the employment of labor at the Site.

8.3.9 *Non-Discrimination and Equal Opportunity.* The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship.

8.3.10 *Contractor's Personnel Grievance Mechanism.* The Contractor shall have a proportionate grievance mechanism for Contractor's Personnel.

8.3.11 *Awareness of Contractor's Personnel.* The Contractor shall provide appropriate awareness to relevant Contractor's Personnel on any applicable environmental and social aspects of the Contract, including on health, safety and prohibition of SEA and SH.

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| 9. Employer's and Contractor's Risks | 9.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks. |
| 10. Employer's Risks | <p>10.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks:</p> <ul style="list-style-type: none"> (a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to <ul style="list-style-type: none"> (i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or (ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor. (b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country |

where the Works are to be executed.

- 10.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer's risk except loss or damage due to
- (a) a Defect which existed on the Completion Date,
 - (b) an event occurring before the Completion Date, which was not itself an Employer's risk, or
 - (c) the activities of the Contractor on the Site after the Completion Date.
11. Contractor's Risks
- 11.1 From the Starting Date until the Defects Liability Certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer's risks are Contractor's risks.
12. Insurance
- 12.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles specified in **CC 2.6**, for listed events which are due to the Contractor's risks:
- 12.2 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.
- 12.3 If the Contractor does not provide any of the policies and certificates required, the Employer may effect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.
- 12.4 Alterations to the terms of an insurance shall not be made without the approval of the Project Manager.
- 12.5 Both parties shall comply with any conditions of the insurance policies.
13. Site Data
- 13.1 The Contractor shall be deemed to have examined any Site Data referred to in **CC 2.7**, supplemented by any information available to the Contractor.
14. Contractor to
- 14.1 The Contractor shall construct and install the Works in

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- | | |
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| Construct the Works | accordance with the Specifications and Drawings. |
| 15. Approval by the Project Manager | <p>15.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.</p> <p>15.2 The Contractor shall be responsible for design of Temporary Works.</p> <p>15.3 The Project Manager's approval shall not alter the Contractor's responsibility for design of the Temporary Works.</p> <p>15.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.</p> <p>15.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Project Manager before this use.</p> |
| 16. Health, Safety and Protection of the Environment | <p>16.1 The Contractor shall be responsible for the safety of all activities on the Site, and for taking care of the health and safety of all persons entitled to be on the Site and any other place where the Works are being executed.</p> <p>16.2 The Contractor shall comply with all applicable health and safety regulations and laws.</p> <p>16.3 Protection of the environment</p> <p style="padding-left: 40px;">(a) The Contractor shall take all necessary measures to: protect the environment (both on and off the Site); and</p> <p style="padding-left: 40px;">(b) limit damage and nuisance to people and property resulting from pollution, noise and other results of the Contractor's operations and/ or activities.</p> <p>In the event of damage to the environment, property and/or nuisance to people, on or off Site as a result of the Contractor's operations, the Contractor shall agree with the Project Manager the appropriate actions and time scale to remedy, as practicable, the damaged environment to its former condition. The Contractor shall implement such remedies at its cost to the satisfaction of the Project Manager.</p> |
| 17. Archaeological and Geological Findings | <p>17.1 All fossils, coins, articles of value or antiquity, structures, groups of structures, and other remains or items of geological, archaeological, paleontological, historical, architectural or religious interest found on the Site shall be placed under the care and custody of the Employer.</p> |

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18. Possession of the Site 18.1 If possession of a part is not given by the date stated in **CC 2.8**, the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.
19. Access to the Site 19.1 The Contractor shall allow the Project Manager and any person authorized by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
20. Instructions, Inspections and Audits 20.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.
- 20.2 The Contractor shall keep and shall make all reasonable efforts to cause its Subcontractors and subconsultants to keep, accurate and systematic accounts and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.
- 20.3 Inspections & Audit by the Bank
- Pursuant to paragraph 2.2 e. of Appendix A to the CC- Fraud and Corruption, the Contractor shall permit and shall cause its agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit, the Bank and/or persons appointed by the Bank to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents audited by auditors appointed by the Bank. The Contractor's and its Subcontractors' and subconsultants' attention is drawn to **CC 23.1** (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).
21. Appointment of the Adjudicator 21.1 The Employer and the Contractor shall jointly appoint an adjudicator with relevant experience, within 7 (seven) days of contract signature. In case of disagreement between the Employer and the Contractor on the appointment of the Adjudicator within this period, either party will request the Appointing authority stated in **CC 2.9**, to appoint the Adjudicator within 7 (seven) days of receipt of such request.
- 21.2 Should the Adjudicator resign or die, or should the Employer and the Contractor agree that the Adjudicator is not

functioning in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Employer and the Contractor. In case of disagreement between the Employer and the Contractor, within 14 (fourteen) days, the Adjudicator shall be designated by the Appointing Authority stated in **CC 2.9**, at the request of either party, within 7 (seven) days of receipt of such request.

22. Procedure for Disputes

22.1 If the Contractor believes that a decision taken by the Project Manager was either outside the authority given to the Project Manager by the Contract or that the decision was wrongly taken, the decision shall be referred to the Adjudicator within 14 (fourteen) days of the notification of the Project Manager's decision.

22.2 The Adjudicator shall give a decision in writing within 14 (fourteen) days of receipt of a notification of a dispute. The adjudicator's cost (hourly fee and reimbursable expenses) shall be divided equally between the Employer and the Contractor, whatever decision is reached by the Adjudicator.

22.3 Both parties shall attempt to settle the dispute amicably before commencement of arbitration. If the dispute is not settled amicably within 14 (fourteen) days of the Adjudicator's written decision, either party may refer a decision of the Adjudicator to an Arbitrator. If neither party refers the dispute to arbitration within 28 (twenty-eight) days of the Adjudicator's written decision, the Adjudicator's decision shall be final and binding. The arbitration shall be conducted in accordance with the following arbitration procedures:

(a) Contract with foreign Contractor:

All disputes arising out of or in connection with the present contract shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

(b) Contracts with Contractor national of the Employer's Country:

In the case of a dispute between the Employer and a Contractor who is a national of the Employer's Country, the dispute shall be referred to arbitration in accordance with the Arbitration Act of 1940 of Pakistan.

23. Fraud and

23.1 The Bank requires compliance with the Bank's Anti-

Corruption Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Appendix A to the CC.

23.2 The Employer requires the Contractor to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the request for quotations or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

24. Security of the Site

24.1 The Contractor shall be responsible for the security of the Site, and:

- (a) for keeping unauthorized persons off the Site;
- (b) authorized persons shall be limited to the Contractor's Personnel, the Employer's Personnel, and to any other personnel identified as authorized personnel (including the Employer's other contractors on the Site), by a notice from the Employer or the Project Manager to the Contractor.

The Contractor shall require the security personnel to act within the applicable Laws.

B. Time Control

25. Program and Progress Reports

25.1 The Contractor shall submit for approval a Program for the Works, within the period stated in **CC 2.10**. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show any effect of Variations and Compensation Events.

25.2 The Contractor shall monitor progress of the Works and submit progress reports to the Project manager at intervals no longer than the period stated in **CC 2.11**.

25.3 In addition to the progress reports stated in **CC 2.11**, the Contractor shall inform the Project Manager immediately of any allegation, incident or accident in the Site, which has or is likely to have a significant adverse effect including, but is not limited to, any incident or accident causing fatality or serious injury; significant adverse effects or damage to private property; or any allegation of SEA and/or SH.

The Contractor shall provide full details of such incidents or accidents to the Project Manager within the timeframe agreed with the Project Manager.

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26. Extension of the Completion Date
- 26.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.
- 26.2 If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.
27. Acceleration
- 27.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.
- 27.2 If the Contractor's priced proposals for an acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.
28. Delays Ordered by the Project Manager
- 28.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.
29. Management Meetings
- 29.1 Either the Project Manager or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
30. Early Warning
- 30.1 The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works.
- 30.2 The Contractor shall cooperate with the Project Manager in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Project Manager.
- C. Quality Control***
31. Identifying Defects
- 31.1 The Project Manager shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The

Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.

32. Tests
- 32.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specifications to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.
33. Correction of Defects
- 33.1 The Project Manager shall give notice to the Contractor of any Defects before the end of the Defects Liability specified in **CC 2.12**. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 33.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.
34. Uncorrected Defects
- 34.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.

D. Cost Control

35. Contract Price
- 35.1 The Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.
36. Changes in the Contract Price
- 36.1 If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Accepted Contract Amount, the Project Manager shall adjust the rate to allow for the change. The Project Manager shall not adjust rates from changes in quantities if thereby the Accepted Contract Amount is exceeded by more than 15 percent, except with the prior approval of the Employer.
- 36.2 If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bill of Quantities.
37. Variations
- 37.1 All Variations shall be included in updated Programs produced by the Contractor.
- 37.2 The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do

so by the Project Manager. The Project Manager shall assess the quotation, which shall be given within 7 (seven) days of the request or within any longer period stated by the Project Manager and before the Variation is ordered.

37.3 If the Contractor's quotation is unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager's own forecast of the effects of the Variation on the Contractor's costs.

37.4 If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

37.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

37.6 If the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Project Manager, the quantity of work above the limit stated in **CC 36.1** or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.

38. Payment Certificates

38.1 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.

38.2 The Project Manager shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.

38.3 The value of work executed shall be determined by the Project Manager.

38.4 The value of work executed shall comprise the value of the quantities of work in the Bill of Quantities that have been completed.

38.5 The value of work executed shall include the valuation of Variations and Compensation Events.

38.6 The Project Manager may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

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39. Payments
- 39.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 28 (twenty-eight) days of the date of each certificate.
- 39.2 Items of the Works for which no rate or price has been entered in shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.
40. Compensation Events
- 40.1 The following shall be Compensation Events:
- (a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to **CC 2.8**.
 - (b) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time.
 - (c) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.
 - (d) The Project Manager unreasonably does not approve a subcontract to be let.
 - (e) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Award of Contract from the information issued to Contractors (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.
 - (f) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
 - (g) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
 - (h) The advance payment is delayed.
 - (i) The effects on the Contractor of any of the Employer's Risks.
 - (j) The Project Manager unreasonably delays issuing a Certificate of Completion.
- 40.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project

Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

- 40.3 As soon as information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.
- 40.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor's not having given early warning or not having cooperated with the Project Manager.
41. Tax
- 41.1 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date of submission of quotations for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor.
42. Price Adjustment
- 42.1 **Prices shall not be adjusted for any fluctuations in the cost of inputs.**
43. Retention
- 43.1 The Employer shall retain from each payment due to the Contractor the proportion stated in **CC 2.13** until Completion of the whole of the Works.
- 43.2 Upon the issue of a Certificate of Completion of the Works by the Project Manager, in accordance with **CC 49.1**, half the total amount retained shall be repaid to the Contractor and half when the Defects Liability Period has passed and the Project Manager has certified that all Defects notified by the Project Manager to the Contractor before the end of this period have been corrected. The Contractor may substitute retention money with an "on demand" Bank guarantee.
44. Liquidated Damages and Bonuses
- 44.1 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in **CC 2.14** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in **CC 2.15**. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the

Contractor's liabilities.

- 44.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate.
- 44.3 The Contractor shall be paid a Bonus calculated at the rate per calendar day stated in **CC 2.16** for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete
45. Advance Payment
- 45.1 The Employer shall make advance payment to the Contractor in the amount specified in **CC 2.17**, against provision by the Contractor, if required in **CC 2.17**, of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Employer in amounts and currencies equal to the advance payment. The Guarantee shall remain effective until the advance payment has been repaid, but the amount of the Guarantee shall be progressively reduced by the amounts repaid by the Contractor.
- 45.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Project Manager.
- 45.3 The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis and shall be fully repaid when the payment reaches eighty percent (80%) of the Contract Price. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.
46. Performance Security
- 46.1 The Performance Security, if required in **CC 2.18**, shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount specified in **CC 2.18**, by a bank acceptable to the Employer, and denominated in the types and proportions of the currencies in which the Contract Price is payable. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion.

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47. Dayworks
- 47.1 If applicable, the Dayworks rates in the Contractor's Quotations shall be used only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.
- 47.2 All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.
- 47.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.
48. Cost of Repairs
- 48.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

49. Completion
- 49.1 The Contractor shall request the Project Manager to issue a Certificate of Completion of the Works, and the Project Manager shall do so upon deciding that the whole of the Works is completed.
50. Taking Over
- 50.1 The Employer shall take over the Site and the Works within 7 (seven) days of the Project Manager's issuing a Certificate of Completion.
51. Final Account
- 51.1 The Contractor shall supply the Project Manager with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Project Manager shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 (fifty-six) days of receiving the Contractor's account if it is correct and complete. If it is not, the Project Manager shall issue within 56 (fifty six) days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Project Manager shall decide on the amount payable to the Contractor and issue a payment certificate.
52. Operating and Maintenance Manuals
- 52.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in **CC 2.19**.
- 52.2 If the Contractor does not supply the Drawings and/or manuals

by the dates stated in **CC 2.19**, or they do not receive the Project Manager's approval, the Project Manager shall withhold the amount stated in **CC 2.20** from payments due to the Contractor.

53. Termination

53.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

53.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:

- (a) the Contractor stops work for 28 (twenty-eight) days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager;
- (b) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 28 (twenty-eight) days;
- (c) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (d) a payment certified by the Project Manager is not paid by the Employer to the Contractor within 84 (eighty-four) days of the date of the Project Manager's certificate;
- (e) the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager;
- (f) the Contractor does not maintain a Security, which is required;
- (g) the Contractor has delayed the completion of the Works for which the maximum amount of liquidated damages can be paid, as specified in **CC 2.15**; or
- (h) if the Contractor, in the judgment of the Employer has engaged in Fraud and Corruption, as defined in paragraph 2.2 a of the Appendix A to the CC, in competing for or in executing the Contract, then the Employer may, after giving 14 (fourteen) days written notice to the Contractor, terminate the Contract and expel him from the Site.

53.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

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- 53.4 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.
- 53.5 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under **CC 53.2** above, the Project Manager shall decide whether the breach is fundamental or not.
54. Payment upon Termination
- 54.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage specified in **CC 2.21** to apply to the value of the work not completed. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.
- 54.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.
55. Property
- 55.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor's default.
56. Release from Performance
- 56.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

57. Suspension of
Bank Loan or
Credit

57.1 In the event that the Bank suspends the Loan or Credit to the Employer, from which part of the payments to the Contractor are being made:

- (a) The Employer is obligated to notify the Contractor of such suspension within 7 (seven) days of having received the Bank's suspension notice.
- (b) If the Contractor has not received sums due to it within the 28 (twenty-eight) days for payment provided for in **CC 39.1**, the Contractor may immediately issue a 14 (fourteen)-day termination notice.

APPENDIX A TO CONTRACT CONDITIONS

Fraud and Corruption

(Text in this Appendix shall not be modified)

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

a. Defines, for the purposes of this provision, the terms set forth below as follows:

- i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
- iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- v. "obstructive practice" is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

- (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.
- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹ (ii) to be a nominated² sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders(applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents personnel, permit the Bank to inspect³ all accounts, records and other documents relating to the procurement process, selection

1 For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

2 A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

3 Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

and/or contract execution, and to have them audited by auditors appointed by the Bank.

Sample Letter of Award of Contract

[modify as appropriate]

[use letterhead paper of the Employer]

[date].

To: *[name and address of the Contractor]*

Subject: *[Notification of Award Contract No]*.

This is to notify you that your Quotation dated *[insert date]* for execution of the *[insert name of the contract and identification number, as given in the CC]* for the Accepted Contract Amount of *[insert amount in numbers and words and name of currency]*, as corrected and modified in accordance with the Request for Quotations is hereby accepted by our Agency.

Please find enclosed herewith the Contract. You are requested to sign the contract within *[insert no of days]*.

You are also requested to furnish a Performance Security within three (03) days in accordance with the Conditions of the Contract, using for that purpose the Performance Security Form attached to the Contract.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract

Performance Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insert name and Address of Employer]*

Date: *_ [Insert date of issue]*

PERFORMANCE GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *_ [insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of *_ [insert name of contract and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (_____) *[insert amount in words]*,¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the Day of, 2... 2, and any demand for payment under it must be received by us at this office indicated above on or before that date.

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- 1 The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Award of Contract less provisional sums, if any, and denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.*
 - 2 Insert the date twenty-eight days after the expected completion date as described in CC 49.1. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed one year, in response to the Beneficiary's written*

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”

Advance Payment Security

Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Insert name and Address of Employer]*

Date: *[Insert date of issue]*

ADVANCE PAYMENT GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of *[insert name of contract and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum *[insert amount in figures]* () *[insert amount in words]* is to be made against an advance payment guarantee.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]*

() *[insert amount in words]*¹ upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- (a) has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or
- (b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Applicant on its account number *[insert number]* at *[insert name and address of Applicant's bank]*..

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that **ninety (90)**

1 *The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Employer.*

percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, or on the *[insert day]* day of *[insert month]*, 2 *[insert year]*,² whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

² *Insert the expected completion date as described in CC 49.1. The Employer should note that in the event of an extension of the expected completion date of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: “The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed one year, in response to the Beneficiary’s written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”*

ANNEX 4: Qualification Criteria and Forms

This Annex contains the criteria that the Employer shall use to qualify the eligible contractor having offered the lowest evaluated price through post-qualification. No other factors, methods or criteria shall be used other than specified in this RFQ. The contractors shall provide all the information requested in the forms included in this Annex.

Qualification Criteria

The contractor have the option to offer for any one or more lots. In case a Contractor applies for one or more Lots, the criteria for qualification shall be aggregate (accumulative) requirement for each Lot as specified under items 1.1, 1.2 and 2.2.

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
1. Financial Situation and Performance							
1.1	Financial Capabilities	<p>The contractor shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements of respective Lot as stated under:</p> <p>For Lot-1: Eq. PKR 300 Million</p> <p>For Lot-2: Eq. PKR 70 Million</p> <p>For Lot-3: Eq. PKR 15 Million</p> <p>For Lot-4: Eq. PKR 15 Million</p> <p>for the subject contract net of the contractor's other commitments</p>	Must meet requirement	Must meet Requirement	N/A	N/A	Form FIN - 1, with attachments

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		(ii) The contractors shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments for at least four months.	Must meet requirement	Must meet requirement	N/A	N/A	
		(iii) The audited balance sheets or, if not required by the laws of the contractor's country, other financial statements acceptable to the Employer, for the last three (03) years shall be submitted and must demonstrate the current soundness of the contractor's financial position and indicate its prospective long-term profitability.	Must meet requirement	N/A	Must meet requirement	N/A	
1.2	Average Annual Construction Turnover	Minimum average annual construction turnover for respective Lot as stated under, calculated as total certified payments received for contracts in progress and/or completed within the last three (03) years,	Must meet requirement	Must meet requirement	N/A	Must meet 50% of the requirement	Form FIN - 2, with attachments

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		divided by three (03) years. For Lot-1: Eq. PKR 550 Million For Lot-2: Eq. PKR 125 Million For Lot-3: Eq. PKR 30 Million For Lot-4: Eq. PKR 30 Million					
2. Experience							
2.1	General Construction Experience	Experience under construction contracts in the role of prime contractor or JV member for at least ten (10) years.	Must meet requirement	N/A	Must meet requirement	N/A	Form EXP - 1, with attachments
2.2	Specific Construction & Contract Management Experience	A minimum number of similar contracts specified below that have been satisfactorily and substantially ¹ completed as a prime contractor or joint venture member ² within last fifteen (15) years:	Must meet requirement	Must meet requirement ³	N/A	N/A	Form EXP - 2, with attachments

¹ Substantial completion shall be based on 80% or more works completed under the contract.

² For contracts under which the contractor participated as a joint venture member or Subcontractor, only the contractor’s share, by value, shall be considered to meet this requirement

³ In the case of JV, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the JV meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		For Lot-1: Two (02) contracts of Eq. PKR 450 Million each For Lot-2: Two (02) contracts of Eq. PKR 100 Million each For Lot-3: Two (02) contracts of Eq. PKR 25 Million each For Lot-4: Nil The similarity of the contracts shall be based on nature and complexity of works required for the Works, as described in Annex 1: Works Requirements (Brief summary of Scope of Work is given in Volume-II of RFQ).					

Form FIN – 1: Financial Situation and Performance

Contractor's Name: _____

Date: _____

Joint Venture Member's Name _____

RFQ No. and title: _____

Page _____ of _____ pages

1. Financial data

Type of Financial Information	Historic Information For Previous Three (03) Years (PKR)		
	Year 1	Year 2	Year 3
Statement of Financial Position (Information from Balance Sheet)			
Total Assets (TA)			
Total Liabilities (TL)			
Total Equity/Net Worth (NW)			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital (WC)			
Information from Income Statement			
Total Revenue (TR)			
Profits Before Taxes (PBT)			
Cash Flow Information			
Cash Flow from Operating Activities			

2. Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of finance	Amount (PKR)
1		
2		
3		

3. Financial documents

The contractors shall provide copies of financial statements for three (03) years pursuant to Qualification Criteria, Sub-factor 1.2. The financial statements shall:

- (a) reflect the financial situation of the contractor or in case of JV member , and not an affiliated entity (such as parent company or group member).
 - (b) be independently audited or certified in accordance with local legislation.
 - (c) be complete, including all notes to the financial statements.
 - (d) correspond to accounting periods already completed and audited.
- Attached are copies of financial statements⁷ for the three (03) years required above; and complying with the requirements

⁷ If the most recent set of financial statements is for a period earlier than 12 months from the date of Quotation, the reason for this should be justified.

Current Contract Commitments / Works in Progress

The contractors and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments					
No.	Name of Contract	Employer's Contact Address, Tel, Fax	Value of Outstanding Work [PKR]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [PKR/month]
1					
2					
3					
4					
5					

Form FIN - 2: Average Annual Construction Turnover

Contractor's Name: _____

Date: _____

Joint Venture Member's Name _____

RFQ No. and title: _____

Page _____ of _____ pages

		Annual turnover data (construction only)	
Year	Amount Currency	Exchange rate	PKR equivalent
<i>[indicate year]</i>	<i>[insert amount and indicate currency]</i>		
Average Annual Construction Turnover *			

* See Qualification Criteria, Sub-Factor 1.2.

Form EXP - 1: General Construction Experience

Contractor's Name: _____

Date: _____

Joint Venture Member's Name _____

RFQ No. and title: _____

Page _____ of _____ pages

Starting Year	Ending Year	Contract Identification	Role of Contractor
		Contract name: _____ Brief Description of the Works performed by the Contractor: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Contractor: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Contractor: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	

Form EXP - 2: Specific Construction and Contract Management Experience

Contractor's Name: _____

Date: _____

Joint Venture Member's Name _____

RFQ No. and title: _____

Page _____ of _____ pages

Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor <input type="checkbox"/>	Member in JV <input type="checkbox"/>	Management Contractor <input type="checkbox"/>	Sub-contractor <input type="checkbox"/>
Total Contract Amount			Eq. PKR	
If member in a JV or subcontractor, specify participation in total Contract amount			*	
Employer's Name:				
Address:				
Telephone/fax number				
E-mail:				

Form EXP - 2 (cont.)
Specific Construction and Contract Management Experience
(cont.)

Similar Contract No.	Information
Description of the similarity in accordance with Sub-Factor 2.2 of Qualification Criteria	
1. Amount	
2. Physical size of required works items	
3. Complexity	
4. Methods/Technology	
5. Construction rate for key activities	
6. Other Characteristics	