



চট্টগ্রাম পানি সরবরাহ ও পয়ঃনিষ্কাশন কর্তৃপক্ষ
Chattogram Water Supply & Sewerage Authority
Chattogram Water Supply Improvement Project
WASA Office Building, Dampara, Chattogram, Bangladesh

Memo No. 46.06.2000.000.335.41.0017.25-187

Date: 14.10.2026

2nd Set of Clarifications/Queries and Responses of CWASA

Project: Chattogram Water Supply Improvement Project (CWSIP)
Package ID: CWSIP/W1
Package Name: Design, Construction, Supply, Installation, Testing & Commissioning for System Improvement and DMA Formation of
Lot 1: Mohara Water Supply System
Lot 2: Modunaghat and Kalurghat Water Supply System

After issuing minutes of pre-proposal meeting and addendum-1, PMU, CWSIP received several queries from the bidders'/Proposers'. All the queries and corresponding replies/responses have been compiled as follows-

SL No	RFP reference	RFP provision mentioned by Bidders'/Proposers' and Bidders'/Proposers' Query	Response
1	Volume 2A, Section VII – Employer's Requirements L1-2.3.5 Modifications to Mohara Pumps	The Contractor shall design and provide the replacement units and variable speed drives to replace the existing pumps, starters and associated valves, fittings, instrumentation and associated sundry items and prepare a detailed work plan for removing each existing pump set and installing and commissioning its replacement one unit at a time while the other 5 remain service. Could you provide the existing pumping station drawing? and we understand no new pumps are needed for the modifications, please confirm.	The available drawings have already been shared through the RFP Document and the Minutes of the Pre-Proposal Meeting. The Proposer shall prepare all other drawings required for the execution of the works as per Employer's requirements. The existing pumps, motors, check valves, gauges, instrumentation and wiring shall be replaced with brand new and up-to-date replacement units incorporating downstream pressure control, compatible with the station delivery flows and pressures expected up to 2052, to be compatible with and installed at the same time as their corresponding

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			VFDs according to L1-2.3.5 Modifications to Mohara Pumps
2	Volume 2A, Section VII – Employer's Requirements L1-2.3.6 Reservoir and BPS at the existing DT BPS premises L1-2.3.6.1 General	Construction will require demolition of existing staff housing and clearance of existing trees and shrubs initially, followed by the decommissioning, demolition and removal of the existing pumping station and its associated valve chambers, pipework and electricity supply. Could you provide the existing pumping station drawing ?	The available drawings have already been shared through the RFP Document and the Minutes of the Pre-Proposal Meeting. The Proposer shall prepare all other drawings required for the execution of the works as per Employer's requirements.
3	Volume 2A, L1-2.3.7 Khulshi Booster PS at the Existing Khulshi BPS Premises Khulshi Booster Pump Station L1-2.3.7.1 General	Contractor shall ensure that demolition of existing housing and structures at the site and partial construction of the Works does not interfere with the operation of the existing pumps until the new pumps have been commissioned and have taken over Could you provide the existing housing and structures drawing ?	The available drawings have already been shared through the RFP Document and the Minutes of the Pre-Proposal Meeting. The Proposer shall prepare all other drawings required for the execution of the works as per Employer's requirements.
4	Volume 2B, L2.2.3.19 Pump Station near Chittagong Urea Fertilizer Company Area	Design and Construction of a new Pump Station near Chittagong Urea Fertilizer Company Area to Convey 30 MLD water produced from Bhandaljuri Water Treatment Plant (BJWTP) to Sector 1 Area. What is the pump number and head requirement for this pumping station?	The Number of Pumps and Head shall be proposed by the Proposers to meet the Employer's requirements.
5	Volume 2B, L2-2.5 Work Section 3: Rehabilitation of Iron Removal Plant at Kalurghat	Improvement to the existing 10MGD Filter Bed and under drain system: a) The Contractor shall Replace the filter media in the 8 No. existing Rapid Sand Filters. b) Supply and install a new filter underdrain system with all necessary pipe works to back wash the filters with air and water. We request to provide the existing structures drawing of iron removal plant at Kalurghat, and filter media and under drain system quality and quantity.	The available drawings have already been shared through the RFP Document and the Minutes of the Pre-Proposal Meeting. The Proposer shall prepare all other drawings required for the execution of the works as per Employer's requirements.
6	Volume 1, A-2 Evaluation of Technical Part (ITP 31)	1.2 Completeness of proposed design deliverables,	The design deliverables need to provide drawings complying with the Employer's Requirements.

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		The tender document already provided concept drawings of Volume-3A and 3B- Conceptual Drawing, if the design deliverables need to provide drawings if we follow the tender drawings	
7	Volume 2B, Section VII – Employer's Requirements L2-3.5.3	List of - As built records of existing infrastructure. There are 6 items written in the list. Could you please provide those mentioned in the list?	The available drawings have already been shared through the RFP Document and the Minutes of the Pre-Proposal Meeting. The Proposer shall prepare all other drawings required for the execution of the works as per Employer's requirements.
8	Volume-2B L2-2.1	The overview states that the total water demand of Sectors 1, 4 and 5 is 170 MLD, of which 90 MLD is transferred from MODUNAGHAT to the Kalurghat Clear Water Tank and 80 MLD is produced by the IRP. However, the subsequent sections and drawings indicate that the 170 MLD water supply comprises 130 MLD transferred from MODUNAGHAT to the Kalurghat Clear Water Tank and 40 MLD produced by the IRP. Please clarify which arrangement shall govern.	It was planned to transfer 130 MLD from MODUNAGHAT to Kalurghat getting 40MLD from Karnaphuli transmission main. In case such supply from Karnaphuli WTP is discontinued CWASA has planned to increase Kalurghat IRP capacity upto 80 MLD in the future.
9	Volume-2B L2-2.1	The overview states that the water demand of Sector 4 is 39 MLD (excluding DMA 401A), the water demand of Sector 5 is 56 MLD, and the flow transferred to ADC Hill Reservoir is 75 MLD. However, the subsequent sections and drawings indicate that the water demand of Sector 4 is 37 MLD (excluding DMA 401A), the water demand of Sector 5 is 56 MLD, and the flow transferred to ADC Hill Reservoir is 77 MLD. Please clarify which figures shall apply.	The figure mentioned in the drawing shall govern.
10	Volume-2B L1-2.7.3.3	Most sections require the upgraded plant to have a production capacity of 10 MGD/40 MLD, in addition to the existing 5 MGD/20 MLD production line. However, the performance guarantee under Section L1-2.7.3.3 requires a treated-water production capacity of 67 MLD. Please clarify which capacity shall govern.	10 MGD /45 MLD is specific output requirement for the upgraded 10 MGD unit. The 5 MGD unit remains unchanged and runs in parallel. 15 MGD/67 Mld will be the Total production capacity of the Plant as per Section L1-2.7.3.3.
11	Volume-2B L2-2.5.1.13	The table specifies a KMnO ₄ dosage of 50–100 mg/L, which is far above the range normally adopted in similar projects.	Please refer to Addendum-2.

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		Please confirm whether this is a typographical error.	
12	Volume-2B L2-2.5.1.31	Rows 2 and 4 of the table are identical. Both the lime and KMnO ₄ dosing equipment are listed as pre- and post-dosing types, whereas Section L2-2.5 indicates only one dosing point for lime and one dosing point for KMnO ₄ . Please clarify the required equipment and dosing points.	Please refer to Addendum-2.
13	Volume-2B L2-2.2/2.3.4	Section L2-2.2 requires 15 in-line booster pumps, whereas Section L2-2.3.4 requires 2 on-street booster pumps. Please clarify whether these refer to separate items of work.	<p>Please refer to RFP document- L2-2.3 Work Section 1: Design and Construction of Transmission and Distribution Systems L2-2.3.1 Hydraulic Network Design and Detailed Design of Pipe Network</p> <p>The Contractor shall prepare detailed designs of the distribution system reinforcements, replacements for unfit existing distribution pipes and the DMAs to be established in the Lot 2 transmission and distribution system, based on the indicative drawings and the preliminary hydraulic model of the Employer. The scope of services for such designs shall include but shall not be limited to:</p> <p>(z) Detailed design includes but not limited to:</p> <p>e. on-street booster pumps and inflow meter along with all the required pipework and structural elements and the location and design of the above-ground instrumentation boxes;</p> <p>Number of booster pumps are depends on upstream pressure setting in the detail design based on most accurate site topographic data.</p> <p>According to Section L2-2.2 and Section L2-2.3.4, adequate number of on-street booster pumps should be installed by Contractor as per contractor's final design.</p>

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14	Volume-2B L1-2.7.3.1	The content of this subsection appears to have been copied erroneously from the Lot 1 requirements. Please confirm whether this subsection is applicable to Lot 2.	Please refer to Addendum-2.
15	Volume-2B L2-2.3.2	The totals in the pipeline quantity tables appear to have been calculated incorrectly. The total quantities should be 155,114 m for New & Reinforcement HDPE Pipes and 16,997 m for Replacement HDPE Pipes. Please confirm.	The Contractor has to consider the tabulated details of Pipes for supply and installations shown in L2-2.3.2 as minimum requirements under this Contract.
16	Volume-2B L2-2.3.2/2.2	The total length of existing pipelines to be replaced under Section L2-2.3.2(e) is 20.96 km, whereas Section L2-2.2 states 35.1 km. Please clarify which quantity shall govern.	L2-2-3.2 to be referred for minimum supply and Installation lengths for each diameter for both new and replacement pipes.
17	Volume-2B L2-2.3.2/2.2	The total length of new and reinforcement pipelines under Sections L2-2.3.2(a), (b), (c) and (d) is 175.92 km, whereas Section L2-2.2 states 156.1 km. Please clarify which quantity shall govern.	L2-2-3.2 to be referred for minimum supply and Installation lengths for each diameter for both new and replacement pipes.
18	Volume-2B L2-2.3.2	Is the approximately 7 km of new HDPE pipeline specified under Section L2-2.3.2(f) a separate quantity that is not included in the pipeline quantity tables in this section?	Approximately 7 km of new HDPE pipeline specified under Section L2-2.3.2(f) is a separate quantity which is not included in pipeline quantity tables under the section.
19	Volume-2B L2-2.3.2	Is the 112 km of HDPE pipeline with an outside diameter of not less than 90 mm, as specified in Section L2-2.3.2, a separate quantity that is not included in the pipeline quantity tables in this section?	112 km of HDPE pipeline with an outside diameter of not less than 90 mm as specified in Section L2-2.3.2, is a separate quantity that is not included in the pipeline quantity tables under the section.
20	Volume-2B L2-2.3.2	The approximately 7 km of new HDPE pipeline under Section L2-2.3.2(f) is intended to convey 30 MLD of water produced by Chittagong Urea Fertilizer Company to Sector 1. This supply arrangement is not shown on the system diagram. Please confirm whether this 30 MLD supply is included in the total Sector 1 water demand of 77 MLD stated in the overview.	30 MLD supply is not included in the total Sector 1 water demand of 77 MLD.
21	Volume-2B L2-2.5.1.4	There is a significant discrepancy between the 2023 and 2011 raw-water quality data for the IRP. Please clarify which data set shall be	Both raw-water quality data are measured in 2023 and 2011 respectively. Further investigations by the

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		adopted as the design raw-water quality.	contractor has to be done by the contractor during the detailed design.
22	Volume-2B L2-2.5	Does the requirement in Item (d) to add an appropriate proportion of manganese dioxide refer to the replacement of the manganese sand filter media, with the manganese dioxide content required to constitute 10%–20% of the total mass of the filter bed?	Yes. the requirement in Item (d) to add an appropriate proportion of manganese dioxide refer to the replacement of the manganese sand filter media, with the manganese dioxide content required to constitute 10%–20% of the total mass of the filter bed.
23	Volume-2B L2.2.3.7.10	Is replacement of conventional ICA mode with touchscreen- type HMI acceptable?	Touch screen is part of the ICA for operator interface. It can't replace ICA panel.
24	Volume-4	Only one borehole was implemented in the geological investigation, and the specific coordinates of the borehole together with geological analysis results are missing. Could you please provide reference geological survey data for this area?	The available geological investigation data has been provided in Volume-4. The Bidder/Proposer is required to undertake his own investigations as part of the technical proposal submission.
25	Volume-1 3.2 Average Annual Turnover of Section-III: Evaluation and Qualification Criteria	As an international bidder, the payments received under construction contracts are reflected in the Company's Audited Financial Statements. Therefore, we respectfully propose the following modification to the qualification requirement: "Minimum average annual construction turnover calculated as total based on either (i) the total certified payments received for contracts in progress or completed, or (ii) the annual construction turnover reflected in the Audited Financial Statements within the past 05 (five) years, divided by 05 (five) years. Lot 1 – USD 38.0 million; Lot 2 – USD 63.0 million; This modification will allow international Proposers to demonstrate their financial capacity through audited financial reports, which accurately reflect revenue received from construction activities and are independently verified. It provides an equivalent and internationally accepted basis for assessing the required average annual construction turnover.	The provision of the RFP document shall remain unchanged.

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26	None	The Contract Documents and construction drawings define the overall work boundaries of Lot 1 and Lot 2 but do not clearly specify the utility connection points, interface boundaries, or responsibilities for pipe connections, inspection chambers, testing, backfilling, etc. at the interfaces between Lot 1, Lot 2, and the existing completed network.	The Bidders are requested to carry out all necessary investigations, studies and design activities before submitting the proposal.
27	None	The acceptance criteria, defect rectification, warranty, and operation and maintenance responsibilities for the utility connection interfaces have not been clearly defined. This may make it difficult to determine responsibility for subsequent defects such as leakage, settlement, or blockage, potentially resulting in quality disputes and maintenance issues. Recommendation: It is recommended that the Employer/Engineer clearly define and confirm the connection points, interface boundaries, and scope of responsibility between Lot 1, Lot 2, and the existing completed network, including the respective responsibilities for connection works and inspection chambers, in order to ensure clear interfaces and avoid potential omissions, overlaps, or disputes.	The acceptance criteria, defect rectification, warranty, and operation and maintenance responsibilities for the utility connection interfaces have been defined in Volume -2A and 2B-Employer's Requirements
28	Volume 1, Sec. IV, Schedule of Priced Sub-activities (Lot-2), Page-96	Lot 2 sub-activity schedule includes Patenga Pump Station SCADA works, outside Lot 2's stated project area Lot 2 is defined throughout as the "Modunaghat and Kalurghat Water Supply System," yet its priced sub-activity table includes "Supply and installation of all electromechanical items required for Modifications to SCADA system at Patenga Pump Station" — Patenga is not otherwise described as part of Lot 2. Please confirm whether Patenga Pump Station SCADA modification genuinely forms part of Lot 2's scope, or whether this line item belongs to a different package.	Yes. Modification of the SCADA system at Patenga Pump Station is included in the scope of Lot 2.
29	Volume 2A, L1-2.2 Overview, p.21 vs. L1-2.3.2, p.25	Internal inconsistency in infill HDPE pipeline diameter (75 mm vs 90 mm)	The outer diameter of 72km HDPE pipelines designated for infill distribution lines will be minimum 90 mm.

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		<p>L1-2.2 states "minimum 72 km of 75 mm Outer Diameter HDPE pipelines designated for infill distribution lines." Section L1-2.3.2 states, for the same requirement, "minimum 72 km of minimum 90 mm Outer Diameter HDPE pipelines." Both figures have been directly confirmed against the issued source PDF.</p> <p>Please confirm the correct minimum outer diameter for the 72 km of infill distribution HDPE pipelines — 75 mm (per L1-2.2) or 90 mm (per L1-2.3.2).</p>	
30	Volume 2A, L1-2.2, p.21 vs. L1-2.3.2 and pipe-length tables, p.25-26	<p>New/reinforcement and replacement pipe-length quantities do not reconcile across sections</p> <p>L1-2.2 states 22.5 km replacement and 158.4 km new/reinforcement. L1-2.3.2's narrative instead gives 22 km replacement and 155 km new/reinforcement, while the accompanying summary tables give a third set of totals (21,475 m and 157,888 m respectively). None of the three sets of figures match exactly.</p> <p>Please issue a single reconciled quantity schedule for replacement and new/reinforcement pipe lengths by sector and diameter, as the pricing basis cannot be established from three mutually inconsistent figures.</p>	L1-2-3.2 to be referred for minimum supply and Installation lengths for each diameter for both new and replacement pipes.
31	Volume 2A, P.38-39, cross-checked against Volume 3A Dwg. CWSIP/W1L1/KUL/PID-001	<p>Khulshi Booster Pumping Station — pump quantity discrepancy between text and drawing</p> <p>The Employer's Requirements text states 5 pumps (4 duty + 1 standby). The corresponding Conceptual Drawing P&ID (Volume 3A, CWSIP/W1L1/KUL/PID-001) has been visually inspected and shows only 4 pump branches (tagged 401-DBP-01 to -04, quantity callout "04") with no 5th/standby branch.</p> <p>Please confirm whether Khulshi Booster PS is to be designed for 5 pumps (4 duty + 1 standby) as stated in the text, or 4 pumps as shown on Drawing CWSIP/W1L1/KUL/PID-001, and issue a corrected drawing if the drawing is in error.</p>	<p>Khulshi Booster Pump Station shall comprise 5 pumps in a 4 duty + 1 standby configuration, as specified in Volume 2A.</p> <p>The conceptual drawings shall be read accordingly.</p>
32	Volume 2A, p.27, text vs. Volume 3A Drawing. CWSIP/W1L1/MOH/E-001	Mohara Pump Station — MCC/VFD drawing shows 4 pump control compartments against a text requirement of 6 pumps	According to L1-2.3.5 Modifications to Mohara Pumps- 06 pumps (5 duty + 1 standby), all to be replaced with new VFD-controlled units.

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		<p>L1-2.3.5 states the existing Mohara Pump Station has 6 pumps (5 duty + 1 standby), all to be replaced with new VFD-controlled units. The corresponding MCC panel-face drawing (Dwg. CWSIP/WIL1/MOH/E-001) has been visually inspected and shows control/protection compartments for only 4 pumps ("MAIN PUMP-1" through "MAIN PUMP-4"), with a note that the panel is a generic template.</p> <p>Please confirm the correct number of pump control/VFD compartments required for the Mohara Pump Station MCC (4 or 6) and, if the drawing is a generic template, issue a project-specific drawing reflecting the actual 6-pump arrangement.</p>	The arrangement shown in the drawings shall be applicable to all six pumps.
33	Volume 2A, L1-3.3 Ground Investigation Data, p.54	<p>Geotechnical report reference is an unfilled placeholder ("Schedule xx")</p> <p>The clause states soil investigation was carried out at the DT Booster site and "detailed report is given in Schedule xx" — a literal, unfilled placeholder, with no such schedule identifiable elsewhere in Volume 2A.</p> <p>Please provide the actual schedule/appendix reference and attach the referenced geotechnical investigation report.</p>	The referenced geotechnical investigation report is provided in Volume 4-Supplementary Information.
34	Volume 2A, L1-3.3 Ground Investigation Data, p.54	<p>Geotechnical data provided covers only a single location for the entire Lot 1 scope</p> <p>The only ground investigation data disclosed for the whole Lot 1 scope (over 250 km of pipelines, a new reservoir and pump station, and the new Khulshi Booster PS) is a single soil investigation at the DT Booster site. No data is given for the Khulshi Booster site, pipeline corridors (including HDD crossings), or DMA/meter chamber locations.</p> <p>Please confirm whether any further geotechnical data exists for the Khulshi Booster site and pipeline corridors and, if not, confirm that geotechnical investigation for design purposes at those locations is entirely the Contractor's responsibility and risk.</p>	No additional site-specific geotechnical report is available for Khulshi Booster Station. The Contractor shall undertake the further investigations necessary for its design and construction in accordance with the Employer's Requirements.

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35	Volume 2A, L1-5.2.1 Design Criteria table, p.94 (recurs identically in Volume 2B, L2-5.2.1, p.119)	Darcy-Weisbach roughness value for new DI pipes ("0.3048") appears physically implausible The design criteria state a Darcy-Weisbach e-value of 0.03 for new HDPE pipes and 0.3048 for new DI pipes. Typical roughness for cement-lined ductile iron pipe is on the order of 0.03-0.1 mm, roughly an order of magnitude smaller than 0.3048. The figure has been directly confirmed as genuinely printed in the source PDF and recurs identically in the Lot 2 Employer's Requirements (Volume 2B, p.123. Please verify and confirm the correct Darcy-Weisbach roughness (e) value and units for new DI pipes, applicable to both Lot 1 and Lot 2 hydraulic models, as 0.3048 appears inconsistent with the HDPE value given alongside it.	A roughness value of 0.3048 mm shall be used. The adopted roughness value is not intended to represent the initial condition of the new pipe; rather, it is a conservative design value intended to account for the anticipated change in hydraulic conditions over the 20-year design horizon.
36	Volume 2B, P.20 (Overview) vs. p.48 (L2-2.5/L2-2.5.1.1) vs. p.75 (Functional Guarantee)	Kalurghat Iron Removal Plant (IRP) output/production capacity stated as three different figures The Overview states 80 MLD production from the Kalurghat IRP. The detailed design basis requires "a continuous supply of treated water of minimum 40 MLD" from the upgraded 10 MGD unit (existing 5 MGD unit unchanged). The Functional Guarantee for Section 3 instead requires the plant to continuously produce "Minimum 67 MLD of treated water as net production" (repeated four times in that clause). No text reconciles the 40 / 67 / 80 MLD figures. Please clarify the actual contractual design/output capacity of the Kalurghat IRP: is the guaranteed net production 40 MLD, 67 MLD, or does the 80 MLD Overview figure represent a different, combined measure, and reconcile all three into a single unambiguous contractual figure.	10 MGD /45 MLD is specific output requirement for the upgraded 10 MGD unit. The 5 MGD unit remains unchanged and runs in parallel. 15 MGD/67 Mld will be the Total production capacity of the Plant as per Section L1-2.7.3.3
37	Volume 2B, L2-2.1 Overview, p.20 vs. L2-2.3.7, p.28	2032 design demand for Sector 4 stated as two different figures (39 MLD vs 37 MLD) The Overview allocates "Sector 4 (excluding DMA 401A): 39 MLD" from the Kalurghat supply chain, while the pump-station design basis states the new Kalurghat booster system is sized "to meet the average demands of 37 MLD and 56 MLD in Sectors 4 and 5 by 2032."	The Design demand Sector 4 is 37 MLD for 2032.

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		Please confirm the correct 2032 design demand for Sector 4 (39 MLD or 37 MLD) that the new Kalurghat distribution pump station and downstream network must be sized to deliver.	
38	Volume 2B, L2-2.1 Overview, p.20-21	<p>No explicit total 2032 design demand figure is stated for Sector 1, unlike Sectors 4 and 5</p> <p>Explicit 2032 demand figures are given for Sector 4 (39 MLD) and Sector 5 (56 MLD), but for Sector 1 only supply components are described (75 MLD via the rehabilitated ADC Hill reservoir; 30 MLD via a new pump station near CUFL), without ever stating Sector 1's total design demand for cross-checking against the combined 105 MLD of supply.</p> <p>Please provide the explicit total 2032 (and 2052) design demand for Sector 1 so bidders can verify the combined supply allocations are correctly sized, neither over- nor under-designed.</p>	Please Refer to drawings CWSIP/W1L1/G-001 and CWSIP/W1L1/G-002
39	Volume 2B, L2.2.3.6.1 SCADA System Modification, p.28	<p>Existing Kalurghat pump station SCADA/control system condition and specification not disclosed</p> <p>The Contractor must upgrade or replace the existing Kalurghat pump station SCADA system and integrate it with new SCADA across Sectors 4/5, the IRP, and ADC Hill/Patenga, but the document states the bidder "may coordinate with client / local agent of the existing equipment for preparing price proposal," with no existing-system inventory, make/model, age, protocol, or condition data provided.</p> <p>Please provide (or confirm the location of) an inventory and condition assessment of the existing Kalurghat SCADA/ICA hardware and communication protocols, so bidders can price the integration scope without relying on informal coordination with an unnamed local agent.</p>	The Proposer has to assess the condition of the existing Kalurghat SCADA/ICA hardware and communication protocols and to upgrade or replace the existing Kalurghat pump station SCADA system as per L2.2.3.6.1-SCADA System Modification
40	Volume 2B, L2-2.3.18 Yard Piping & Interconnection, p.38-39	<p>Cross-Lot interface ambiguity — Kalurghat/ADC Hill piping connects into the Mohara (Lot 1) transmission line</p> <p>The Lot 2 scope requires connecting a new line from ADC Hill reservoir to the existing Mohara transmission line (900 mm dia.), and a transfer arrangement to the Mohara 600/700 mm delivery line.</p>	Contractor (Lot 2) is responsible for designing, supplying and installing the physical tie-in point, valves and connecting pipe segment as per Volume 2B, L2-2.3.18 Yard Piping & Interconnection.

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		<p>Mohara is explicitly Lot 1's supply area, executed under a separate Design-Build contract.</p> <p>Please clarify which Contractor (Lot 1 or Lot 2) is responsible for designing, supplying and installing the physical tie-in point, valves and connecting pipe segment at the Lot 1/Lot 2 interface, and how coordination, handover and payment between the two Contractors will be managed.</p>	
41	Volume 2B, L2-2.3.7, p.28 vs. L2.2.3.7.1, p.29	<p>Kalurghat pump-count requirement for Sector 4 conflicts with the stated general minimum L2-2.3.7 specifies 5 pumps (3 duty + 2 standby) for Sector 4. The immediately following clause L2.2.3.7.1 instead states "a minimum of 4 pumps shall be installed specifically for each Sector" — inconsistent with the 5-pump figure given for Sector 4 directly above it.</p> <p>Please confirm whether Sector 4 requires 5 pumps (3 duty + 2 standby) or a minimum of 4 pumps, and correct the inconsistency.</p>	05 Nos. pumps (3 duty + 2 Standby) for sector-4 and 04 Nos. pumps (3 duty + 1 Standby) for Sector 5 shall be required as minimum.
42	Volume 2B, L2-2.3.8 Modifications to SCADA System at Patenga Pump Station, p.36	<p>Patenga Pump Station SCADA modification scope is undefined</p> <p>The entire clause states the Patenga SCADA system "shall be modified to incorporate new pump control arrangement... so that fully automated operation is possible," with no description of the existing hardware/software, age, protocol, or the boundary between "modification" and full replacement.</p> <p>Please provide a technical description or condition survey of the existing Patenga SCADA system and define the scope boundary between modification and replacement, so bidders can price the integration work.</p>	The Proposer should do his own investigations on the existing conditions and propose the modification to incorporate new pump control arrangement and integrate new equipment to the system so that fully automated operation is possible.
43	Volume 2B, L1-2.7.3.1 Functional Guarantee for Section 1, p.75	<p>"Mohara delivery flowmeter" referenced inside Lot 2's Functional Guarantee clause</p> <p>The Lot 2 Functional Guarantee requires that "the summation of the DMA inlet flows exceeds 95% of the measured volume at the Mohara delivery flowmeter."</p>	Please refer to Addendum-2.

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		<p>Mohara is the Lot 1 supply area/system, not part of the Lot 2 (Modunaghat/Kalurghat) scope.</p> <p>Please clarify whether the reference to the "Mohara delivery flowmeter" is a drafting error carried over from the Lot 1 document and, if so, confirm the correct flowmeter/measurement point applicable to Lot 2's functional guarantee testing — noting that Lot 2 is fed from multiple distinct sources (Kalurghat IRP/Modunaghat WTP and the separate Bhandaljuri WTP/Karnaphuli tunnel supply), and clarify how the 95% flow-balance test is intended to be calculated across those multiple sources</p>	
44	Volume 2B, L2-3.3 Ground Investigation Data, p.76	<p>Missing referenced geotechnical schedule and minimal disclosed site-investigation coverage</p> <p>The clause states soil investigation was carried out "at one location on pumps station land plot at Kalurghat IRP premises and detailed report is given in Schedule xx" — an unfilled placeholder — with only a single geotechnical location disclosed for the entire Lot 2 works (Kalurghat PS, ADC Hill, Patenga, CUFL pump station, about 191 km of pipeline, booster chambers).</p> <p>Please provide the actual "Schedule xx" geotechnical report, and confirm whether additional soil investigation data exists for the other Lot 2 structure sites beyond the single Kalurghat IRP location disclosed.</p>	Please refer to Volume-4 Supplementary Information.
45	Volume 2B, L2-5.7.11 Local Operation Stations, p.173	<p>Local Operation Station drawing list uses an unrelated project's drawing-number prefix and is incomplete</p> <p>The listed LOS drawing numbers use a "KGWSEP.../PK3/..." prefix that does not match this project's own numbering convention (CWSIP/...) used elsewhere in the document, and the list's final lettered item has no drawing number filled in.</p> <p>Please confirm whether the "KGWSEP" drawing numbers are correct/applicable to this Contract, or provide the drawings for the Lot 2 LOS schedule.</p>	Please refer to drawing CWSIP/W1L2/KGT/E-004 for LOS



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46	Volume 3A and 3B Drawings.	Issue regarding visualization of drawing The Employer's provided all drawing visually not clear and nor readable. Some of test is missing due to the quality of the PDF file. Please provide a clear visual drawing for better understanding of the concept of the project, preparation of the schedule of prices and the cross-check between the text and dimensions of the drawing to ensure consistency.	The high-resolution, clear Bid Document (Volume-1 to Volume 4) in PDF format has already been shared.
47	Volume 2A (Section VII-L1-2.3.1 (m) & Section VII-L1-2.4.2 (c)) Volume 2B (Section VII-L2-2.3.1 (m) & Section VII-L2-2.4.2 (c)) Volume 3A & 3B, Standard Drawing CWSIP/W1L1/STD/017/ CWSIP/W1L2/STD/017 ("DMA Meter Chamber - for HDPE Pipes")	The Employer's Requirements state that the Contractor is responsible for "stabilizing, managing and reducing average DMA pressure using pumps, controllers, and various techniques as appropriate". However, the standard detail drawing for the DMA Meter Chamber (STD/017) only shows a spool piece (to be replaced by the Smart Flow Meter), a pressure transmitter, a water quality manifold, and logging instrumentation—with no Pressure Reducing Valve (PRV) or electronic PRV (e-PRV) depicted inside the chamber. Please clarify if the CWSIP/W1 Contractor is contractually required to design (including sizing, pressure setting, and diameter calculations) and install a Pressure Reducing Valve (PRV) or an electronic/SCADA-compatible PRV (e-PRV) at each and every DMA inlet. Which one, PRV or e-PRV?	CWSIP/W1 Contractor is contractually required to design (including sizing, pressure setting, and diameter calculations) and install a Pressure Reducing Valve (PRV) or an electronic/SCADA-compatible PRV (e-PRV) at each and every DMA inlet in order to stabilizing, managing and reducing average DMA pressure.
48	Volume-1: Section IV - Proposal Forms Schedule of Priced Activities and Sub-activities Page-88-89	Schedule of Priced Activities and Sub-Activities For Lot 2 Activities - Minimum or Maximum ration of proposed contract price Design - Maximum 5% Construction of Transmission and Distribution Systems - Maximum 80% DMA Establishment, Leak Reduction and Maintenance work - Minimum 10% Rehabilitation of Iron Removal Plant at Kalurghat - Minimum 10% This minimum or maximum ration of proposed contract price total is 105%. Please confirm if it is correct	This minimum or maximum ration of proposed contract price total is 100%



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49	Volume 2A: Section VII - Employer's Requirement (Lot-1) Page – 21 L1-2.2 Scope of Works - Lot 1	Decommissioning, demolition removal and disposal of the existing building, pumping station and associated infrastructure within the boundaries of the DT Booster site; Decommissioning, demolition removal and disposal of the existing building, booster pumping station and associated infrastructure within the boundaries of the DT Booster site; There are these 2 points under the L1-2.2 Scope of Works - Lot 1, which seems like repeated. We believe one is DT Booster Site, another one should be Khulshi Booster site. Please clarify.	Please refer to Addendum-2.
50	Volume -1: Section III - Evaluation and Qualification Criteria /A-1.2 Contractor's Representative and Key Personnel 1. Key Personnel for Design - SI no. 4. Social Impact Assessment Specialist 2. Key Personnel for Construction - SI no. 8. Social Specialist	Required Relevant Academic Qualifications 1. Master Degree in Social Sciences 2. Master Degree in Social Sciences/relevant field. For both position could the requirement to be changed as Bachelor Degree instead of Masters Degree? Please clarify. For Lot-1 & Lot-2	The provision of the RFP document shall remain unchanged.
51	Volume-1, Section-III A-1.1.4 Experience 4.2 (a) Option 2 b)	Establishment and Implementation of DMAs, which includes minimum of 20,000 Nos. Customer Connection replacements using HDPE Pipes & Fittings, conducting repair, control, and maintenance works2 and Active Water Leak Reduction Activities which has effectively lower the Non Revenue Water more than 50% from the baseline with minimum value of USD 10 million. The current requirement combines multiple high-volume technical deliverables (20,000 HDPE connections and >50% NRW reduction) into a single contract with a high monetary threshold (\$10 Million USD). Restricting experience to a single contract meeting all these parameters simultaneously significantly limits the pool of qualified	The provision of the RFP document shall remain unchanged.

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		international and local bidders. To encourage maximum participation while still ensuring high execution quality, we respectfully request the Employer to reduce the number of house connection to 10,000 Nos.	
52	Volume-1, Section-III A-1.1.4 Experience 4.2 (a) Option 2 b) ii)	(ii) A minimum Number of 01 (one) Design-build/Build only contract for Construction of Pump station of 20 MLD together with RCC Reservoir of minimum capacities of 10,000 m ³ ; It is requested to reduce the capacity to 5,000 m ³	The provision of the RFP document shall remain unchanged.
53	Volume-1, Section-III A-1.1.4 Experience 4.2 (a) Option 2 b) iii)	b) Detail design of Pumpstation of minimum capacity of 20 Million Liter per day (MLD) and Reservoir of minimum capacity of 10,000 m ³ . It is requested to reduce the capacity to 5,000 m ³	The provision of the RFP document shall remain unchanged.
54	Tender Requirement: ITP 23.1: The deadline for Proposal submission is: September 29, 2026	Requested: We respectfully request the Employer to consider extending the Bid Submission Deadline by at least Six (6) weeks from the existing deadline due to it's very highly advanced, complex & highly compliance bid documents. Need to get precise quotes for specialized pipes, heavy-duty valves, fittings, formalize technical partnerships, consortium agreements, lot of certifications from the manufacturer's end.	Addendum-2 is issued. The deadline for Proposal submission is: 15 November 2026
55	Volume 3A & 3H - (Conceptual Drawings):	We respectfully request the Employer to provide the relevant drawings in high-resolution, clear and color format, preferably in their original CAD/PDF format, to facilitate accurate review and preparation of the proposal	The high-resolution, clear Bid Document (Volume-1 to Volume 4) in PDF format has already been shared through Minutes of Pre-proposal Meeting.
56	Time extension	Considering the complexity of DB project and in order to make a good preparation of our bidding documents, we hereby sincerely request your esteemed office for 2 (TWO) month's extension against the submission date 29 September 2026.	Addendum-2 is issued. The deadline for Proposal submission is: 15 November 2026
57	Section III; Clause 4.2(a) (i) Design- Build — Option 1	One Design-Build / Build- only contract of at least USD 54 million for DI & HDPE network works, DMA establishment and implementation, at least 20,000 connection replacements, active leak reduction, and more than 50% NRW reduction.	The provision of the RFP document shall remain unchanged.

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		Please consider removing Option 1, or keep it as an optional qualification criterion.	
58	Section III; Clause 4.2(a) (i) Design- Build — Option 2(a)	One Design-Build / Build- only contract of at least USD 54 million for supplying, laying, testing and commissioning DI & HDPE water-supply networks. Please accept one Design-Build / Build- only water-treatment project with a minimum value of USD 54 million as an additional qualifying reference.	The provision of the RFP document shall remain unchanged.
59	Section III; Clause 4.2(a) (i) Design- Build — Option 2(b)	One DMA/NRW contract of at least USD 10 million with at least 20,000 HDPE customer-connection replacements, repair/control/maintenance works, active leak reduction and more than 50% NRW reduction; may be met by specialist subcontractor/sub-consultant. Please permit one comprehensive water- network project (covering connections, HDPE materials, maintenance, and leakage control via EPC or project management)	The provision of the RFP document shall remain unchanged.
60	Section III; Clause 4.2(a) (iii)(a) Design	Hydraulic design of at least 300 km of transmission/distribution pipelines and design and creation of at least 30 DMAs. Please revise the criteria to read: "Hydraulic design of transmission/distribution pipelines."	The provision of the RFP document shall remain unchanged.
61	Section III; Clause 4.2(a) Average Annual Turnover	Each ember Must meet [25], [Twenty-five] % of the requirement. Please revise the criteria to read: "Each Partner Must meet [15], [Fifteen] % of the requirement	The provision of the RFP document shall remain unchanged.
62	RFP Volume 1, Part 1 – Section IV, Schedule of Payments, Supply & Installation items – Work Section 01 (included in both Lot-1 and Lot-2, items 2.2.1–2.2.4) and Lot-2 Work Section 03 (Rehabilitation of Iron Removal Plant at Kalurghat, items 4.2.1–4.2.5)	2.2.1 At LC issued – up to 10% of the total amount of LC but not exceeding 10% of the total value for supply material. 2.2.2 When deliver to the Site – up to 60% of the total amount of LC but not exceeding 50% of the total value for supply material. 2.2.3 After installation – up to 70% of the total rated value for the given quantity.	The provision of the RFP document shall remain unchanged.

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		<p>2.2.4 After Testing and commissioning completed (including successful testing and commissioning of DMA's) up to the satisfaction of the Engineer – up to 100% of the total rated value for the given quantity.</p> <p>(Lot-2 WS03) 4.2.1 At LC issued – up to 10% of the total amount of LC but not exceeding 10% of the total value for supply material</p> <p>4.2.2 When shipped – up to 50% of the total amount of LC but not exceeding 50% of the total value for supply material.</p> <p>4.2.3 When deliver to the site – up to 60% of the total amount of LC but not exceeding 60% of the total value for supply material.</p> <p>4.2.4 After installation – up to 75% of the total rated value for the given quantity.</p> <p>4.2.5 After Testing and commissioning completed up to the satisfaction of the Engineer – up to 100% of the total rated value for the given quantity.</p> <p>Considering that many of the materials are subject to customized procurement, and given that the percentages payable at shipment/delivery and after installation under the current milestones are relatively low (50% of the total value for supply material at delivery and 70% after installation), the Contractor faces considerable funding pressure. In addition, Sub-Clause 14.5 of the FIDIC General Conditions of Contract provides, as the internationally recognised standard for Plant and Materials, for eighty percent (80%) of the agreed or determined value to be certified upon shipment or delivery to the Site, whereas the ratio at the corresponding milestone of the present Payment Schedule is well below this level. To facilitate the smooth progress of the Works, we would be most grateful if the Employer could kindly consider providing more financial support and the proposed revision in the last column.</p>	
63	RFP Volume 1, Part 1 – Section IV, Schedule of Payments, Construction items – Work Section 01 (included in both Lot-1 and Lot-2, items 2.3.1–2.3.4) and Lot-2 Work Section 03 (Rehabilitation of	<p>2.3.1 After completing the Substructure – up to 20% of the total quoted value for construction of the item.</p> <p>2.3.2 After completing the Superstructure – up to 50% of the total quoted value for construction of the item.</p>	The provision of the RFP document shall remain unchanged.



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	Iron Removal Plant at Kalurghat, items 4.3.1–4.3.4)	<p>2.3.3 Structure is completed up to installation of M&E Equipment, Instruments and Accessories – up to 75% of the total quoted value for construction of the item.</p> <p>2.3.4 After completing the all finishing works and any performance test as required – up to 100% of the total quoted value for construction of the item. (The wording of items 4.3.1 to 4.3.4 of Lot-2 WS03 is identical.)</p> <p>We respectfully raise two points for the Employer's kind consideration: (1) the percentages payable at the current milestones appear relatively low, so the Contractor is required to finance a substantial portion of the construction costs, which places considerable funding pressure on the Contractor; (2) the final milestone, namely completion of "all finishing works and any performance test as required", does not appear to be clearly defined – the RFP does not specify which performance tests apply to the construction items or the relevant acceptance criteria, so the release of the final 25% remains subject to some uncertainty, which affects the Contractor's collection of the payment. We would therefore be most grateful if the Employer could kindly consider increasing the payable percentages at each milestone as proposed in the last column.</p>	
64	RFP Volume 1, Part 1 – Section IV, Schedule of Payments, DMA works – Work Section 02 (DMA Establishment, Leak Reduction and Maintenance), included in both Lot-1 and Lot-2 (items 3.1.1–3.1.4)	<p>3.1.1 Completion of a successful Zero Pressure Test, confirming the DMA boundary ensures its isolation – up to 25% of total quoted value per 1 DMA.</p> <p>3.1.2 Subject to acceptance of the 3.1.1 Works, completion of the DMA meter chamber and instrument pillar as ready for meter installation by the Package CWSIP/G3 contractor– up to 50% of total quoted value per 1 DMA.</p> <p>3.1.3 Subject to acceptance of the above 3.1.2 works, 7 consecutive days in which minimum pressure at the DMA Critical Point exceeds 1bar for 96% of the duration and the summation of the consumption of the customers within the DMA, measured as the difference between their meter readings at the beginning and end of the period, exceeds 90% of the measured volume of water entering the DMA at</p>	The provision of the RFP document shall remain unchanged.

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		<p>the DMA meter(s) over the same period – up to 60% of total quoted value per 1 DMA.</p> <p>3.1.4 Subject to acceptance of the above 3.1.3 works for all DMAs in the parent Sector, completion of the 12-month maintenance period for the parent Sector and its constituent DMAs during which the summation of the consumption of the customers within the Sector, measured as the difference between their meter readings at the beginning and end of the period, exceeding 90% of the measured volume of water entering the Sector at the Sector meter(s) over the same period – up to 100% of total quoted value per 1 DMA.</p> <p>After completion of the works, and although the Employer is already secured by the retention money, the performance security and the required insurances, 40% of each DMA's quoted value would still remain withheld until the end of the 12-month maintenance period. We are concerned that this retained proportion appears relatively high, and would therefore be most grateful if the Employer could kindly consider increasing the payment ratios as proposed.</p>	
65	Volume 2 – Section VII-L2: Employer Requirements	<p>The RFP identifies a 30 MLD pump station near the Chittagong Urea Fertilizer Company Area for conveying water from BJWTP to Sector 1; however, the minimum design criteria and site/interface information necessary for tender design and pricing are not clearly specified. Kindly provide or confirm the proposed site location/coordinates and available plot boundary, required design duty including flow and total dynamic head, inlet/outlet tie-in points and pipe sizes, and any minimum footprint or layout constraints.</p> <p>Furthermore, please confirm whether the Contractor's scope shall include ancillary facilities such as a clear water tank/reservoir, electrical substation/electrical room, control room, administration building, guardhouse and other associated structures, and if so, please provide the applicable minimum requirements.</p>	The Contractor's scope shall include ancillary facilities such as a clear water tank/reservoir, electrical substation/electrical room, control room, administration building, guardhouse and other associated structures complying with the Employer's requirements.
66	Volume 1 – Section I: Instructions to Proposers	Based on our review of the financial conditions, it is our understanding that the Contractor is solely responsible for bearing all taxes, duties, and levies related to the project execution. This includes Custom Duty (CD), Value Added Tax (VAT), Advance Tax (AT),	Confirmed. Contractor is solely responsible for bearing all taxes, duties, and levies related to the project execution.



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		Advance Income Tax (AIT), Supplementary Duty (SD), and Regulatory Duty (RD). Please explicitly confirm if this interpretation is correct, or clarify if the Employer will provide any tax exemptions, waivers, or reimbursements for imported materials and local services.	
67	Volume-1: Section III- Evaluation and Qualification Criteria; A-1.5 (ii)	Considering the extensive global supply experience and commercial confidentiality requirements of established international manufacturers, please clarify whether a Manufacturer's Certified Global Supply / Export Reference List, duly signed and stamped by the manufacturer and indicating relevant information such as country, customer/project, product description and year of supply, could be accepted as documentary evidence to demonstrate compliance with the relevant manufacturer experience and overseas supply requirements under A-1.5(i) and (ii).	A Manufacturer's Certified Global Supply/ Export Reference List, duly signed and stamped by the manufacturer and indicating relevant information such as country, customer/project, customer/client contact details, product description and year of supply, is accepted as documentary evidence to demonstrate compliance with the relevant manufacturer experience and overseas supply requirements under A-1.5(i) and (ii).
68	Volume 2B – Process Requirements: Sedimentation / Lamella Settlers	Volume 2B specifies optional coagulation, rapid mixing, and plate/tube settling with a minimum detention time of ≥ 45 minutes, but it omits a separate flocculation retention period. Because historical raw-water data exhibits periods of elevated turbidity, and iron/manganese oxidation produces fine particulate oxides requiring controlled aggregation, we propose adding an approximate 15-minute hydraulic baffled flocculation zone between the static mixer and the plate/tube settlers. This will promote settleable flocs and reduce solids loading on the rehabilitated filters without replacing the mandatory 45-minute sedimentation period. Please confirm acceptance of the additional ≈ 15 minute hydraulic baffled flocculation stage as a process enhancement.	Proposer can include a flocculation stage to the process in order to fulfil Employer's requirements.
69	Volume 2B – Process Unit Guidelines: Potassium Permanganate Dosing	The guidelines state Potassium Permanganate dosages of 50 mg/L (normal) and 100 mg/L (maximum). Published drinking-water guidance (U.S. EPA, Health Canada) dictates stoichiometric requirements of low single-digit dosing (≈ 0.94 mg/mg Fe and ≈ 1.92 mg/mg Mn). Dosing at 50–100 mg/L creates severe risks of excess permanganate carryover ("pink water") additional precipitate loading and disproportionately high chemical consumption. We propose a design dosage range of 3–5 mg/L, with equipment sized for 5 mg/L at design flow and adjusted on-site to actual oxidant demand.	Please refer to Addendum-2.

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		Please confirm that a Potassium Permanganate design dosage range of 3-5 mg/L may be adopted instead of the 50/100 mg/L values, without changing the treated-water quality obligations.	
70	Volume 2B – Chemical Storage Schedule / Process: Lime Supply Form	The bidding document contains conflicting references regarding lime supply, citing both quicklime requiring an on-site slaker and hydrated lime supplied in 50 kg bags. To optimize space within the restricted existing building footprint and avoid unnecessary slaking equipment, we propose standardizing on hydrated lime [Ca(OH) ₂] supplied in 50 kg bags. This will be stored dry and prepared as a controlled slurry (≤ 5 concentration) for pH adjustment. Please confirm that supplying hydrated lime in 50 kg bags with slurry preparation facilities omitting an on-site quicklime slaking system is acceptable.	Supplying hydrated lime in 50 kg bags with slurry preparation facilities omitting an on-site quicklime slaking system is acceptable.
71	Volume 2B – Chemical Storage Guidelines: Volume 2B – Chemical Storage Guidelines: On-site Storage Period	Volume 2B requires approximately 90 days of on-site storage at normal dosage for solid chemicals. For the 42 MLD capacity, these demands storing ≈ 113.4 t of hydrated lime and ≈ 189.0 t of ferric chloride. Following necessary spatial allocations for electrical, control, and generator functions within the existing 45m x10m decommissioned pump house, only ≈ 20 m x 10 m (about 200m ²) remains available for chemical systems. A 90-day inventory is physically incompatible with this footprint. We propose approximately 30 days of on-site storage ≈ 37.8 t lime and ≈ 63.0 t ferric chloride), supported by planned regular replenishment. Please confirm that an approximate 30-day on-site storage capacity for hydrated lime and ferric chloride, replenished by regular deliveries, is acceptable in lieu of the 90-day inventory.	The provision of the RFP document shall remain unchanged.
72	Volume 2B / Tender Conceptual Drawings: Chemical Building Arrangement	Conceptual arrangements co-locate chemical, chlorination, generator, and control functions within the existing decommissioned pump-house building. To guarantee stringent chemical segregation, operational safety, and maintainability in a restricted floor area, we propose keeping the electrical, control, generator, and bulk dry chemical (lime and FeCl ₃) systems in the existing building. Simultaneously, we propose constructing a new dedicated chemical	The chlorine-gas and KMnO ₄ systems can be accommodated in a new dedicated building as proposed.

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		building to house the chlorine-gas and KMnO4 systems in separate, isolated rooms. Please confirm that the chlorine-gas and KMnO4 systems may be accommodated in a new dedicated building in separate rooms, while utilizing the existing pump house primarily for hydrated lime and ferric chloride.	

 14.10.2026

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Copy:

- 1) Deputy Managing Director (Engineering), Chattogram WASA, Chattogram.
- 2) Chief Engineer, Chattogram WASA, Chattogram.
- 3) System Analyst, Chattogram WASA (with request to publish the 2nd Set of Clarifications/Queries and Responses of CWASA for Package-CWSIP/W1 at the CWASA website).
- 4) P.A to Managing Director, Chattogram WASA, Chattogram (for kind information to Managing Director, Chattogram WASA).
- 5) To all bidders/Proposers, Package CWSIP/W1-Design, Construction, Supply, Installation, Testing & Commissioning for System Improvement and DMA Formation of Lot 1: Mohara Water Supply System; Lot 2: Modunaghat and Kalurghat Water Supply System.