






Procurement ID: CB No: MCA-M/CF/WRA/W/02

**Bidding Document for the Construction of the Conveyance System and
CHPP-3 and CHPP-4's Modification and SCADA**

**ANSWERS TO CLARIFICATION QUESTION – ISSUE No. 7 (Questions 64 to 75)
March 24, 2023**

<p>Questions and Answers 1-2 issued to all registered Bidders on January 26, 2023 Questions and Answers 3-6 issued to all registered Bidders on January 31, 2023 Questions and Answers 7-21 issued to all registered Bidders on February 09, 2023 Questions and Answers 22-51 issued to all registered Bidders on February 28, 2023 Questions and Answers 52-62 issued to all registered Bidders on March 10, 2023 Question and Answer 63 issued to all registered Bidders on March 15, 2023</p>	
Question 64:	<p>a) Can you please explain "What is the connection called RESTRAINT JOINT when assembling DI cast iron pipe?</p> <p>b) Is there a concrete structure with a full foundation or is it done inside the pipeline?</p>
Answer 64:	<p>a) Due to the high-water pressure in the pipes, there is a need for joints of the pipes to have additional mechanical restraint, supplementary to the socket/spigot arrangement. Please refer to the manufacturer's brochures for exact details of their restraint couplings. For ease of understanding, see the example below</p>  <p>b) The bidder should review all drawings related to the structure details. But, in confirmation, all structures have independent foundations and are not formed inside the pipes.</p>
Question 65:	A new road, bridge is being built close to the Ireedui town. It is expected that problems may occur during the execution of the work. Will the Employer CA assist the Contractor in coordinating this work?
Answer 65:	The route of the pipeline has been approved and, concurred with Ulaanbaatar City's Road Development Department, and Department informed that the detailed design of the road and bridge is not approved and concurred with UB city's Road Development Department; as such, it is not expected that the works on the road bridge will interfere with the construction works on the conveyance system. However, if there are conflicts between 2 projects, then the Employer will assist the Contractor in coordination meetings and works.

Question 66:	<p>With regard to: II.10.1.12 - Ultrasonic type Flow indicating transmitter with (0-1500 m3/hr) DN 500; and II.10.1.13 - Ultrasonic type Flow indicating transmitter with (0-2000 m3/hr) DN 700:</p> <p>a) What type of transducer/sensor is to be used in the transmitter? Clamp or insertion ? Size DN500 or DN700?</p> <p>b) Do the flow meters need to be of the manufacturer and model type certification according to Mongolian standards?</p>
Answer 66:	<p>a) With the exception of the Bulk flow meters used for the Billing, all other flow meters shall be insertion-type ultrasonic flow meters which are clearly indicated in the instrument list. Please refer to the instrument index (part of Appendix B Design Datasheet revised-030123 in Section 4.8,4.9&4.10), which has process parameters and other details. All Ultrasonic flow meters shall have the Display with totalizer as they are FIT (Flow indicating transmitters).</p> <p>b) Yes, it should be accepted by Mongolian standards and follow Appendix B Specific technical requirements_revised-030123.</p>
Question 67:	<p>With regard to: II.10.1.18 - Ultrasonic type Pre-fabricated Bulk Flow indicating transmitter with Totalizer (0-2000 m3/hr) DN 700.</p> <p>Please confirm if the picture below shows Ultrasonic type Pre-fabricated Bulk Flow indicating transmitter with Totalizer (0-2000 m3/hr) DN 700.</p> 
Answer 67:	Confirmed. However, the make and model number shall be as per the specification.
Question 68:	<p>With regard to: II.10.1.18 - Combined Chlorine Indicator Transmitter.</p> <p>Does Combined Chlorine vary from CHPP4? And advise the measuring range of it.</p>
Answer 68:	This will measure Free Residual Chlorine same as CHPP4. Please refer to the Instrument index for the range and the type of Instruments (Appendix B Design Datasheet_revised-030123 in Section 4.8,4.9 & 4.10).
Question 69:	With regard to: II.10.2.10 - 24 Core Single Mode Armoured FO Cable. Please confirm the quantity of 24 Core Single Mode Armoured FO Cable as if it is 34,800 meters.
Answer 69:	<p>These cable lengths indicated are measured based on the LS drawings of the FO cables and the cable routing drawings. However, the successful bidder shall provide the required cable for the project completion. The Bidder shall also verify with the LS & layout.</p> <p>Also, as stated in the Preambles, <i>“The quantities given in the bill of quantities are only estimations. In no sense shall such quantities be considered as limiting or extending the amount of work to be done by the contractor and of the materials supplied by him.”</i></p>
Question 70:	With regard to: II.10.4.4 - Firewall. Please confirm if the quantity of firewall(s) is 32 nos.

Answer 70:	For the number of firewalls regarding II.10.4.4 please refer to drawing I-9.6-MCA-T.7-CHPP3-DD090-DWG-513-IC-rev1-230113 & I-9.3-MCA-T.7-CS-DD090-DWG-503-IC. Also, as stated in the Preambles, <i>“The quantities given in the bill of quantities are only estimations. In no sense shall such quantities be considered as limiting or extending the amount of work to be done by the contractor and of the materials supplied by him.”</i>
Question 71:	With regard to: III.8.1.1.3-10 - Ultrasonic type Flow indicating transmitter. What type of transducer/sensor is to be used in the transmitter - Clamp, insertion, or pre-fabricated?
Answer 71:	Please refer to the Instrument index. (Appendix B Design Datasheet_revised-030123 in Section 4.8, 4.9 & 4.10) Except for the bulk flow meters in the CHPP#4 inlet & Booster pumping station inlet, all other area's Ultrasonic flow meters are Insertion type.
Question 72:	With regard to IV.8.1.1.12 - Free Residual chlorine indicator transmitter (0-500 ppm). Is Free Residual chlorine different from CHHP3/BPS?
Answer 72:	This will be Free Residual Chlorine only - as indicated in the BOQ. Please refer to the Instrument index for the range and the type of Instruments (Appendix B Design Datasheet_revised-030123 in Section 4.8, 4.9 & 4.10).
Question 73:	With regard to: IV.8.1.1.13 - Ultrasonic type Pre-fabricated Bulk Flow indicating transmitter with Totalizer (0-1300 m3/hr) DN 700. Please confirm if the picture below shows an Ultrasonic type Pre-fabricated Bulk Flow indicating transmitter with Totalizer (0-1300 m3/hr) DN 700. 
Answer 73:	Confirmed. The make and model number however shall be as per the specification.
Question 74:	With regard to: IV.8.1.1.14-16 <ul style="list-style-type: none"> - Ultrasonic type Flow indicating transmitter with (0-1200 m3/hr) DN 400 - Ultrasonic type Flow indicating transmitter with (0-900 m3/hr) DN 400 - Ultrasonic type Flow indicating transmitter with (0-1200 m3/hr) DN 300 What type of transducer/sensor is to be used in the transmitter - Clamp, insertion or Pre-fabricated?
Answer 74:	Please refer to the Instrument index. (Appendix B Design Datasheet_revised-030123 in Section 4.8, 4.9 & 4.10) Except for the bulk flow meters in the CHPP#4 inlet & Booster pumping station inlet, all other area's Ultrasonic flow meters are Insertion type.
Question 75:	Does the UPS system need to be included in the BOQ of the SCADA?
Answer 75:	Yes, SCADA UPS with a distribution panel at each area where the PLC/RIO panels are to be placed will be included in the Bidder's Bid Price for the SCADA. The UPS system is required as per “Appendix B Specific technical requirements_revised-030123”. All four wire transmitters, Analyzers, and PLC/RIO panels are powered with UPS power. For the tentative load list, please refer to Appendix B Design Datasheet_revised-030123 in Sections 4.2, 4.3 & 4.4.

	Also, please refer to Preambles, which states, “Every item in the bill of quantities should be priced. It shall be deemed that the value of any item left unpriced in any of Bills is either included in the rates for other items or that the Contractor required no payment in respect thereof. All other items do not appear in the Bill of quantities shall be considered as included in the rates of other items which do not appear in the bill of quantities shall be considered as included in the rates of other items.”