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 QUESTIONS – ISSUE No. 3 (Questions 7-21)

February 09, 2023

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**	
Question 7:	With regard to Section III of Part 1 of the Bidding Documents - Qualification and Evaluation Criteria – Sub-Factor 12 (Similar Experience) refers to "*Physical size of the pipeline diameter at least 500 mm and length at least 3km*", however Sub-Factor 13 (Specific Experience) refers to "*pipe length of not less than 1 km with a minimum diameter of 300 mm*". Please kindly explain the deviations for these requirements and confirm if the latter clause mentions only Dewatering technique.
Answer 7:	The quoted *"Physical size of the pipeline diameter at least 500 mm and length at least 3km"* requirement is referring to the Bidder's experience of laying/installing pipes in regular conditions or any other conditions. While for the *"pipe length of not less than 1 km with a minimum diameter of 300 mm"* requirement, Bidders must demonstrate that they have worked with dewatering the trench specifically to lay a minimum of 300 mm pipes in not less than 1km length in high water table areas
Question 8:	With regard to Section VI of Part 2 of the Bidding Documents - Work Requirements: "Annex 1 - Bill of Quantities with Measurement & Payment" - specifically Annex-1 Bill of quantity locked → II.10.2 Cables, II.10.3 PLC & SCADA, II.10.5 IO cards, II.10.6 Electronic Earthing, II.10.7 Switch FO equipment.There are no drawings on which these BOQ list was enumerated. The Bidder would like to receive these drawings if there are any available?
Answer 8:	Bidders are referred to the following: ▪ *Particular Technical Specification - Datasheets, Section 4.2 [Cable Schedule CHPP#3], 4.3 [Cable Schedule CHPP#4] and 4.4 [Cable Schedule CS]* ▪ *Particular Technical Specification - Datasheets, Section 4.8 [I/O List CHPP#3],4.9 [I/O List CHPP#4] and 4.10 [I/O List CS]* ▪ *Drawings MCA-T.7-CS-DD090-DWG-503-IC, MCA-T.7-CHPP#3-DD090-DWG-513-IC, MCA-T.7-CHPP#3-DD090-DWG-508-IC & MCA-T.7-CHPP#4-DD090-DWG-512-IC*
Question 9:	With regard to Section VI of Part 2 of the Bidding Documents - Work Requirements: The Bidder acknowledges receipt of "Annex 2-Tech Specs and Drawings". We would like to clarify if all Drawings are approved by the State Expertise and deemed as Issued For Construction. If not, please confirm if it is under Employer's responsibility.
Answer 9:	The Detailed design drawings are under Employer and its Owner's Engineer's review and will be submitted for review and approval of the State Expertise to the Construction

	Development Center and National Energy Center shortly. The Design Consultant who is developing the detailed design documents will be responsible for incorporating any changes required from these reviews. The selected Contractor will receive the final detailed design documents following any changes and approvals. As stated in the Preambles to the Bill of Quantities, works in the present bill of quantities will be re-measured on completion and value at the rates inserted by the Contractor.
Question 10:	With regard to Appendix E Drawings of the above-referenced Tech Specs and Drawings - specifically "I. Conveyance system (CS)-Transmission main → I-9. Instrumentation & +3Controls". There is a missing BOQ related to the "*Instrumentation & Controls"* package drawings. The Bidder would like to receive BOQ on these drawings if there are any available.
Answer 10:	Bidders are referred to Item II.10 [Control and Automation Works].
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Question 11:	With regard to Appendix E Drawings of the above-referenced Tech Specs and Drawings - specifically "III. Modification Works in CHPP#3" There is a mismatch between Drawing BOQ and BOQ from *"ANNEX-1 Bill of quantity locked".* For example, on *"Appendix E Drawing Index"* file indicates Instrumentation drawings are at *III-6 Instrumentation & Controls*, however BOQ file from *"ANNEX-1 Bill of quantity locked"* indicates there are *III.6 Pipe works.* Please kindly check for consistency.
Answer 11:	Numbering of the Drawing Index is not identical to the BoQ Item Numbers.
Question 12:	With regard to Appendix E Drawings of the above-referenced Tech Specs and Drawings - specifically "III. Modification Works in CHPP#3; IV. Modification Works in CHPP#4" Please provide SCADA PLC Panel detailed drawings if there are any available.
Answer 12:	The PLC (Programmable Logic Controller) for CHPP #3 and CHPP #4, and CS does not connect anywhere with the existing SCADA system of CHPP #3 & CHPP #4. Hence all-related drawings of the PLC are provided in the bidding document.
Question 13:	With regard to Appendix E Drawings of the above-referenced Tech Specs and Drawings - specifically "IV-7.4-MCA-T.7 CHPP4-DD090-DWG-TW-780-PI" a) Please indicate the turning point location coordinates of the Treated water CHPP #4 Pipe. b) Please indicate the location coordinates of Junction well-1, Flow meter-1, 2, and 3.
Answer 13:	Following the Award of Contract, the drawings in native Autocad format will be handed over to the Contractor. The Autocad drawings will be geo-referenced and contain the coordinates.
Question 14:	With regard to Appendix E Drawings of the above-referenced Tech Specs and Drawings - specifically "MCA-T.7-CHPP3-DD090-DWG-TW-749" Please indicate the location of the Surge Vessel and Compressor inside CHPP#3, or please provide relevant drawings.
Answer 14:	*The design of the surge vessel is at III-2.19-MCA-T.7-CHPP3-DD090-DWG-TW-749 where the volume of the vessel, the capacity of the compressors, and valve configuration are shown. Although the exact location of the surge vessel and compressor were not included in the drawings, for bidding purposes, pipe lengths were provided in Annex 1 Excel tab "III CHPP#3", item III.6.19 Surge Vessel Piping. Bidders should use that information for bidding. The final pipe length from the surge vessel to the connection point will be remeasured upon completion of work, as stated in the Preambles to the Bill of Quantities.*

Question 15:	With regard to Section IV of Part 1 of the Bidding Documents - Bid Submission Forms Form 21: Form TECH-1: Method Statement. The Bidder would like to enquire if night shifts can be considered on work hours.
Answer 15:	As stated in Bid Submission Form 2: Appendix to Bid - 6.5 Working Hours: *"Normal working hours are 8 AM-8 PM; as Mongolia has short construction season, due to this, works may continue outside these hours. The Contractor is responsible for complying with all Mongolian Labour Law requirements relating to - but not limited to - working hours and under what conditions non-standard hours apply."* The night shift work will require approval by the Engineer (on the Conveyance system) and CHPPs (at the CHPPs).
Question 16:	With regard to Section VI of Part 2 of the Bidding Documents - Work Requirements: Annex 2-Tech Specs and Drawings → 1.1.2 Continuous Operation of CHPP#3 and CHPP#4: a) The Bidder acknowledges that at no point operation of either CHPP #3 or CHPP #4 be stopped or interrupted. Please share with all Bidders any additional, specific technical requirements from CHPP #3 or CHPP #4 authorities - if there are any. b) The Bidder would like to enquire if Resettlement Action Plan (RAP) can be shared at the Bidding stage. We would like to request detailed information on the Contractor's role on the implementation of the Resettlement Action Plan.
Answer 16:	a) The specifics of the inquiry shall be established after the contactor is chosen and the method statements at the CHPPs are made. All the proceedings will have to be in accordance with the CHPPs safety regulations and requirements. b) The Resettlement Action Plan will be handed over to the selected contractor after signing the contract. The majority of the Resettlement Action Plan's implementation will be handled by MCA-Mongolia and local Mongolian agencies. There are some elements of the resettlement that require removing and/or replacing physical infrastructure such as fences. MCA-Mongolia and local government agencies are responsible for obtaining agreements with project-affected persons. Upon the Contract award, the Employer will issue a Variation Order per FIDIC conditions on the exact and detailed scope of the contractor's responsibility regarding RAP implementation, and the Contractor will be asked to submit a price proposal for such Variation Order. Note that in IFB Section III, on-site Key Personnel No. 12, the Contractor shall include a resettlement specialist as a Key Personnel assisting the Contractor's responsibility in RAP implementation.
Question 17:	With regard to Section VI of Part 2 of the Bidding Documents - Work Requirements: "Annex 1 - Bill of Quantities with Measurement & Payment" - specifically Annex-1 Bill of quantity locked →1.4.2.1 *"Earthwork excavation and depositing on bank with an initial lead of L-7 Meter, Width- 4.46 Meter Height -5 Meters (Entry & Exit) in hard stiff clay , stiff black cotton, hard red earth, shales murrum, gravel stoney earth and earth mixed with small size boulders, rock, including de-watering the pit (ENTRY & EXIT) /using 8 HP De-watering pumps, wherever necessary, including hire charge for tools & plants, labor, lead and lifts, etc.,"* There might be a discrepancy in the Quantity of 400m3. Please clarify.

Answer 17:	This is no discrepancy; the excavation quantity has been estimated based on L*B*H and an additional 400 mm for sheet pile and execution purposes - hence (4.46+.4)*(5+.4)*(7) = 368 m^3 ~ 400 m^3.
Question 18:	With regard to Section VI of Part 2 of the Bidding Documents - Work Requirements: "Annex 1 - Bill of Quantities with Measurement & Payment" - specifically Annex-1 Bill of quantity locked →1.4.5.1 *"Earthwork excavation and depositing on the bank with an initial lead of L-7 Meter, Width- 4.46 Meter Height -5 Meter (Entry & Exit) in hard stiff clay , stiff black cotton, hard red earth, shales murrum, gravel stoney earth and earth mixed with small size boulders, rock, including de-watering the pit (ENTRY & EXIT) /using 8 HP De-watering pumps, wherever necessary, including hire charge for tools & plants, labor, lead and lifts, etc."* There might be a discrepancy in Quantity of 400m3. Please clarify
Answer 18:	Please refer to the response to Q17.
Question 19:	With regard to Section VI of Part 2 of the Bidding Documents - Work Requirements: "Annex 1 - Bill of Quantities with Measurement & Payment" - specifically Annex-1 Bill of quantity locked →1.4.5.1 - Trenchless Crossing -5 (Jacking - Auger Boring Method) DN 700 "*Earth work excavation and depositing on bank with initial lead of L-7 Meter, Width- 4.46 Meter Height -5 Meter (Entry & Exit) in hard stiff clay , stiff black cotton, hard red earth, shales murrum, gravel stoney earth and earth mixed with small size boulders, rock, including de-watering the pit (ENTRY & EXIT) /using 8 HP De-watering pumps, wherever necessary, including hire charge for tools & plants, labor, lead and lifts, etc.,"* There might be a discrepancy in the Quantity of 368m3. Please clarify.
Answer 19:	Please refer to the responses to Q17 and Q18.
Question 20:	With regard to Section VI of Part 2 of the Bidding Documents - Work Requirements: The Bidder would like to request relevant design documents, which consider future infrastructure construction works that might intersect with the Project. For example, there are ongoing projects such as bridge construction on the route from Naadamchid street to Peace avenue, which might cross near TM-1 → TP-49, and TP-50 (637066.20 m E, 5305913.81 m N).
Answer 20:	The detailed design of the Conveyance System was developed before the start of other infrastructure projects, such as the construction of a road and bridge. The Consultant who has developed the detailed design of the Conveyance System has communicated with the Road Authority of UB city and got concurrence from the Road Authority of UB city on the selected route of the main transmission pipeline. By that time, the Road Authority of UB did not provide any information regarding the bridge and road project and did not make any requirements related to the bridge and road planning to be constructed. Bidders should price bids based on information provided in the bidding documents.
Question 21:	With regard to Section VI of Part 2 of the Bidding Documents - Work Requirements: There might be a discrepancy in MTO of trench sleeve pipe thickness. Please clarify. Pipe, DN1600, CS, BE, EN-P265GH, thk 12.5MM (for Trenchless Sleeves) Pipe, DN1200, CS, BE, EN-P265GH, thk 12.5MM (for Trenchless Sleeves).
Answer 21:	The thickness of the trench sleeve pipes shall be updated in Addendum #1, which is expected to be issued in late February 2023.