

CB No: MCA-M/CF/WRA/W-01

Invitation for Bids
For the Wastewater Recycling Plant Design-Build

ANSWERS TO CLARIFICATION QUESTIONS – ISSUE No. 1 (Questions 1-32)
August 24, 2021

Question 1:	We are interested to attend the Pre-Bid meeting scheduled on 25 th August 2021 at 10:00 (UTC+8). Due to the difference, it would be difficult to attend the meeting from our home country. With this regard, we would like to ask you, whether there is an alternative date for Pre-Bid meeting scheduled for the companies having similar issues.
Answer 1:	MCA-Mongolia set the timing of the Pre-Bid Conference to maximize the opportunity for global participation. We encourage potential Bidders to attend, even if this is outside of business hours in their time zone. If, however attendance is not possible, the Minutes of the Pre-Bid Conference together with the PowerPoint Presentations and Answers to the Questions received during the Pre-Bid Conference will be provided to all registered Bidders.
Question 2:	We are planning on a 3 company Joint Venture to undertake this project; we formed our team knowing we are technically capable to undertake this project. However, IFB Section III - Evaluation Criteria item 9 page 59 on Financial Situation does not qualify us even with our combined resources. In this regard we would like to ask if this criteria is imperative for selection.
Answer 2:	<p>Yes, this and all other qualification requirements are Mandatory. The requirements for annual average turnover are:</p> <p>1. Minimum average annual construction turnover of \$50 Million, calculated as total certified payments received for contracts in progress or completed, within the last five (5) years. Each member must meet twenty-five percent (25%) and at least one member must meet fifty-five percent (55%) of this requirement. So, unless one potential member meets the US \$27.5 Million requirement and all potential members meet the US \$12.5 Million requirement, this should not be a Joint Venture; and</p> <p>2. Minimum average annual design turnover of US \$3 Million, calculated as total certified payments received for contracts in progress or completed, within the last five (5) years must be met by at least one member.</p> <p>The Joint Venture must meet MCA-Mongolia's definitions and requirements.</p>
Question 3:	IFB Section III page 61/62 item 13 similar design experience. In line with item 1, may we verify if our sister companies under the umbrella of (Group name withheld to protect confidentiality) project references are acceptable to comply with the 15MLD capacity (WTP & WWTP).
Answer 3:	<p>Please note that the "Bidder" means any eligible entity or person, including any associate of such eligible entity or person that submits a Bid.</p> <p>The requirement must be met by the bidder or at least one member of the Joint Venture. The Joint Venture must meet MCA-Mongolia's definitions and requirements</p>

Question 4:	Most ITB document are all commercial. When are the Technical documents be available such as the design parameters etc? This we need for the concept presentation.
Answer 4:	Section V of the Bidding Document which is the Employer's Requirements contains the aforementioned information comprising of Design Requirements, Technical Specifications, Performance Requirements, and the Dropbox link to download the technical documents and other Supplemental Information. This Dropbox link is provided in the Answer to Question 8 below. Please also note that the links to Supplemental Information have been updated as described in the Answer to Question 8 as well.
Question 5:	Kindly confirm that there is no restriction on the origin and source of the materials and equipment.
Answer 5:	<p>Bidders are encouraged to visit the websites of the US Department of State and the US Department of Treasury for updates on embargoed countries.</p> <p>https://www.state.gov/state-sponsors-of-terrorism/</p> <p>Where is OFAC's Country List? What countries do I need to worry about in terms of U.S. sanctions? U.S. Department of the Treasury</p> <p>Sanctions Programs and Country Information U.S. Department of the Treasury</p> <p>Furthermore, the requirements and restrictions for Eligible Materials, Equipment, and Services are set forth in Section I - Instructions to Bidders - ITB 6 of the Bidding Document. Per ITB 6.1, the restrictions on the nationality of the supplier described in ITB 5.3 are also applicable to the country of origin of the materials, equipment, and services supplied. The Bidders should note that, per ITB 6.2 and 6.3, the origin of materials, equipment, and services is distinct from the nationality of the Bidder, and that "origin" means the place where the materials and equipment are mined, grown, cultivated, produced, manufactured, or processed, and from which the services are provided, as further described in ITB 6.2.</p>
Question 6:	What are the performance guarantee and conditions needed to be met by the winning bidder upon award?
Answer 6:	<p>Regarding Performance security/bonds:</p> <p>The Requirements for the submission of the Performance Security are set forth in Section I of the Bidding Document - Instructions to Bidders (ITB) in ITB 42. Section IV of the Bidding Document contains the Appendix to Bid, which set out in Clause 4.2 that the Performance Security will be in the Form of Performance Security included in Section VIII of the Bidding Document, or another form acceptable to the Employer in the amount of ten percent (10%) of the Accepted Contract Amount, payable in US Dollars. A foreign institution providing a Performance Security shall have a correspondent financial institution located in the Employer's country.</p> <p>Regarding plant performance/performance guarantee:</p> <ul style="list-style-type: none"> • Process guarantees will need to be confirmed by the WRA Contractor as part of its Tests on Completion (Refer to section # 2.26.5.7 of the ER document) • Documentation and records that demonstrate the compliance with the Performance Guarantee will need to be submitted by the WRA Contractor to the Employer at the end of the Defect Notification Period (as per section # 2.27.3 of the ER document).

	<p>MCA will be issuing an Addendum at the beginning of September 2021 with additional details of the Tests on Completion to further explain and clarify Section 2.26.5.7 of the Employers Requirements but the general requirements will be as follows:</p> <p>The Contractor shall perform functional testing for the facility until it has determined that it is capable of meeting the requirements of the specification. It shall then give notice to the Engineer of its desire to perform the Tests on Completion per FIDIC Clause 9. As described in FIDIC, the Engineer will set the specific date for the start of the Tests on Completion.</p> <p>Two of the specific Tests on Completion are described here in general :</p> <p>The first Test on Completion shall consist of the Contractor operating the WRP to produce 50,000 m³/day of recycled water (which shall be discharged to the CWWTP effluent channel during the test) which meets the requirements of Table 2-4 of the Employers Requirements for a period of thirty (30) days. This is the trial run referred to in section 2.26.5.6 of the Employers Requirements. During this period the Contractor shall ensure that any redundant equipment has been cycled into operation for at least one week. The Contractor shall take a total of twelve (12) composite 24 hour samples of the influent and the effluent from the WRP testing for all parameters identified in the specification. The effluent data taken from these tests shall be used to determine compliance with Table 2-4 of the Employers Requirements. The Engineer may direct the specific days when the samples will be taken. There shall be at least two samples during any seven day period of the test. The Employers Requirements are that the WRP be able to treat water which is within the influent characteristics of Table 2-1, 2-2 and 2-3 95% of the time, as such if a water quality parameter that the WRP Contractor samples during the Tests on Completion exceeds the noted value from those Tables on one day then the WRP effluent shall still comply with the requirements of Table 2-4. If the WRP influent is less onerous than any range given e.g. a TSS concentration below the range of 35 – 40 ppm then the WRP effluent quality shall meet the requirements of Table 2-4. If for that specific parameter there is a subsequent exceedance of the influent value shown in Table 2-1, 2-2 or 2-3 the Contractor may elect to not include the effluent data for that second (and any subsequent influent exceedances too) from its determination of compliance.</p> <p>The second Test on Completion shall be conducted after the successful completion of the first Test on Completion and the Contractor shall demonstrate that the pumping system is capable of pumping the specified WRP flow to the receiving infrastructure (being built by others) for a period of at least five days. During this period any redundant equipment shall be rotated so any equipment has been in service for at least two days during the Test on Completion. The Contractor shall coordinate this test with the Contractor who builds the receiving infrastructure.</p> <p>MCA-Mongolia may require a period of several months after this second Test on Completion where the WRP will produce water to meet the demands of the CHPPs which would be a third Test of Completion. During this period USUG staff would observe how Contractor staff run the facility as a learning exercise.</p>
Question 7:	Kindly advise if we have to fill in prices according to Table 1-1 Schedule of Prices – Fixed Price Lump Sum Items -BASE BID CONTRACT PRICE of REVISED DRAFT Employer's Requirements or to fill in according to "Breakdown of rates and prices schedules" under Section IV Bid submission form.
Answer 7:	Bid Form 1 - Letter of Bid of Section IV or Bid Submission Form contains the table for the Schedule of Prices Item 1.01 through 1.10. This must be completed and submitted in

	<p>accordance with the requirements in the Bidding Document. The Employer's Requirement Section 1.0 provides a detailed description of each item.</p> <p>Bid Form 32 - Breakdown of Rates and Prices Schedules refers solely to the breakdown of Price Schedule 1.08. This must be completed and submitted in accordance with the requirements in the Bidding Document.</p>
Question 8:	<p>The IFB shall contain; (a) Instructions to Bidders; (b) Bid Review, Evaluation Criteria, and Bidder Qualification Requirements; (c) All the Bidding Forms that Bidders should complete and submit with their Bid; (d) Works Requirements including the links to the technical documentation and supplemental information with which bids must comply to; and (e) Conditions of Contract to be used.</p> <p>Kindly note that section (d) Works Requirements (including the links to the technical documentation and supplemental information with which bids must comply to) is not available under IFB Bidding Documents.</p>
Answer 8:	<p>The Works Requirements link to the technical documentation is working and the Bidders have been able to download. This question may be therefore only referring to the link to the Supplemental Information. A few links directing Bidders to the Supplemental Information, were not functioning and these links have been replaced. If Bidders were unable to download the information from the inactive link before they were updated, they can do so from these links:</p> <p>Corrected Links under Supplemental Information of Employer's Requirements - Section V of the IFB:</p> <p>The link to Additional environmental, social, gender, health, and safety analyses and documents had expired, and was replaced in the IFB on July 27, 2021. https://www.dropbox.com/sh/ima5gfzmy5xerc5/AAC0Lhq_j-Ph3gNfjgDkdqDTa?dl=0</p> <p>The link to MCC Standards for Corporate Marking and Branding had expired and was replaced in the IFB on July 30, 2021. The MCC Branding & Marking is: https://www.mcc.gov/resources/branding and the sub-page for Technical Specifications for Infrastructure Project Signs is: https://www.mcc.gov/resources/doc/guidance-technical-specifications-for-infrastructure-project-signs</p> <p>Corrected Links in the Particular Conditions of Contract (PCC) - Section VII of the IFB: The 2nd link in PCC 15.6 (Corruption or Fraud) had expired and was replaced in the IFB on August 02, 2021. https://www.cipe.org/wp-content/uploads/2018/02/CIPE_Anti-Corruption_Compliance_Guidebook.pdf</p>
Question 9:	<p>kindly advise us with the "Revised employer's requirements file" as the downloaded file has the name of REVISED DRAFT Employer's Requirements (Wastewater Recycling Plant) that includes many comments.</p>
Answer 9:	<p>All these extraneous comments have now been removed. No other changes have been made to the document.</p>
Question 10:	<p>Referring to REVISED DRAFT Employer's Requirements Table 2-1 Design Effluent Quality Discharge Requirements for the New CWWTP. Kindly advise us with the values of TDS, SO₄, Fe, Cu, oil and aluminum at the inlet of wastewater recycling plant.</p>

Answer 10:	We recognize that historic data may be insufficient for providing a performance guarantee on these parameters. In light of this, the Design Build Contractor shall measure the influent values for these parameters as part of its testing and it shall not increase the concentration of TDS, SO ₄ , Fe, Cu or aluminum in the WRP effluent compared to the influent during tests. The Design Build Contractor shall comply with the oil limit prescribed in Table 2-4 in all cases, as its treatment process should be capable of this.
Question 11:	Referring to REVISED DRAFT Employer's Requirements Table 2-4 Design Finished Water Quality Criteria for the WRP. kindly advise us with the value of COD at effluent of wastewater recycling plant.
Answer 11:	There is no finished water quality design requirement for COD at the effluent of the Wastewater Recycling Plant. The requirement for COD in the finished water will be provided by an Addendum which the Employer is planning to issue at the beginning of September 2021.
Question 12:	Referring to REVISED DRAFT Employer's Requirements Table 2-11 Disinfection Design Criteria; kindly advise what is the description of disinfection train and if the length and width have the dimensions of 426 m and 203 m respectively.
Answer 12:	<p>The disinfection design criteria and train dimensions need to be proposed by the Bidders as part of its Design Proposal to be included in Form TECH-1. Preliminary design of the Bidder shall include its process design, PFDs and P&IDs and layout plants (horizontal and vertical) of the process units including disinfection trains.</p> <p>As stated in the Employer's Requirements, the Disinfection Contact Basin should be a minimum of 10,000 m³ to provide the required chlorine contact time and to reduce the E. coli count to non-detect levels to provide some equalization storage for the finished water pumps in Transfer Pump Station #2.</p> <p>The values of 426 m for length and 203 m for width are incorrect. The values should be 42 m for length and 20 m for width.</p>
Question 13:	Referring to Environmental and Social Baseline Assessment; kindly advise if the contractor Shall follow Table 4-3 CWWTP Effluent Water Quality (data provided to Tetra Tech by USUG for 2016) where the values of BOD, COD, TSS are 168.86 ppm, 409.07 ppm and 131.92 ppm respectively or to follow REVISED DRAFT Employer's Requirements Table 2-1 Design Effluent Quality Discharge Requirements for the New CWWTP where the values of BOD, COD, TSS are 25 ppm, 65 ppm and 40 ppm respectively.
Answer 13:	The values of BOD, COD, TSS given in Table 2-1 (of revised draft of ER document) shall apply.
Question 14:	Referring to Environmental and Social Baseline Assessment; it is mentioned in Table 4-5 a concentration of Heavy Metals in the Effluent of CWWTP effluent. Kindly advise if it is the responsibility of contractor to treat heavy metals at wastewater recycling plant and advise us with the Design values of Ni, cd, Pb, Zn, Cr, Cu and Hg.
Answer 14:	The Design Build Contractor is not responsible for treating heavy metals in its treatment process (at the Wastewater Recycling Plant) which are not described in the Employers Requirements. The Bidder, however, shall describe in its Bid the expected removal levels of the heavy metals that could be achieved from its proposed treatment process.
Question 15:	Referring to Environmental and Social Baseline Assessment , it is mentioned in clause

	7.10 Estimated costs that a provision of 2 percent of the project cost is included to cover these and other potential mitigations. Kindly confirm that contractor should add mentioned percent under this contract.
Answer 15:	<p>The estimated costs are as per the provision of the Applicable Law and shall be considered in the Bidder's estimate (Financial Offer). These costs for implementing the Environmental and Social Mitigation Measures as per the Contractor's ESMP (CESMP) and Health & Safety Plan shall be included in the Lump-Sum item 1.03.</p> <p>ESBA is provided as reference material and the 2% was for budget estimation and planning purposes only. Contractor shall follow the Environmental and Social Management Plans and submit a proposal which shall provide all services and outcomes required by the specifications in its outcome even if this is more than 2% of the project cost. "2% of the project cost is indicative and the bidders shall include adequate budget for the implementation of ESMPs to be adjusted to the ESMPs are being finalized prior to the contract negotiations.</p>
Question 16:	<p>Referring to Final Feasibility Report Volume I:</p> <ul style="list-style-type: none"> a) kindly advise if "Transmission mains – pipeline portion of connecting infrastructure linking the WRP to CHP", is under the scope of this contract and advise us with the length, material and diameter of pipeline that should be considered. b) Kindly advise if "Storage Tanks – located inline (CHP 3) and onsite (CHP 4) to receive recycled waters and replicate portions of existing groundwater receiving facilities" is under the scope of this contract and advise us with the material and volume that the contractor should consider for Storage Tanks. c) Kindly advise if "Pumping Station – to convey stored recycled waters to CHPs" is under the scope of this contract and advise us with technical data for Pumping Station.
Answer 16:	<p>Please refer to:</p> <p>Section # 2.2.2 (Recycled WT Pipeline, Tanks and Pump Stations Description) Section # 2.17.11 (Transfer Pump Station #2) Section # 2.23 (Coordination with Transmission Pipeline Project) of ER.</p> <p>In brief:</p> <ul style="list-style-type: none"> a) The recycled water transmission pipelines will be designed by others and built by others. Hence it is not part of the scope of this contract (WRP). Other consultants will select the pipeline diameter and will advise the WRA Contractor of the system curves for the transmission pipelines. However, coordination of the design by the WRP Contractor will be required for the following: <ul style="list-style-type: none"> - At the connecting points with the pipelines (outside of Pump Station #2). - For surge protection equipment to be installed by the WRP Contractor at the WRP to protect the water transmission pipelines. b) Storage Tanks are not under the scope of this contract and will be built by other contractor. c) Pumping Station #2 includes dedicated pumps under this contract which will convey recycled water to CHPP #3 and CHPP #4. The design criteria for Pump Station #2 is shown in Table 2-14 (Section 2.23.2 of the ER) and will be finalized by others. The WRP Contractor will need to coordinate the pump design and pump selection (of Pump Station #2) with the hydraulic design of the pipelines (to be done by others), hence above criteria/data are provisional only.

Question 17:	Kindly advise us with the SCADA design documents for the new CWWTP
Answer 17:	<p>The bidders do not need to be aware of the new CWWTP SCADA to prepare its bid. Coordination of control aspects of the design for communication between the CHPPs and the WRP will be the task of the WRP Contractor. The WRP will have a SCADA system that will be operated by USUG, and will have operational and monitoring capability of the CWWTP, WRP, and connecting infrastructure. The SCADA system will also be able to monitor CHPP's recycled water storage tanks and use. Due to the confidential nature of the documents, the SCADA facilities at the CHPPs will be shared only with the awarded WRP Contractor.</p> <p>For the communication and integration of the SCADA system: Please refer to the following sections:</p> <ul style="list-style-type: none"> • Section 2.24.1 (General Requirements – Instrumentation and Control) and in particular to Figure 2 (Conceptual SCADA Communications). • Section 2.25.5 (SCADA Programming and System Integration) • Section 2.18 (SCADA and Information Technology (IT) Systems)
Question 18:	Kindly advise us with location of electrical building for wastewater recycling plant.
Answer 18:	<p>The Design Build Contractor shall design, size and locate the electrical building for the WRP.</p> <p>Please refer to section #2.17.16 (Power Supply Facilities at the WRP). In terms of where the power supply will come from for the WRP, the NPTG (National Power Transmission Grid) will provide power to the WRP via its substation located about 2.0 km in the southwest of the WRP's site. The WRA Contractor will need to design and build the following facilities:</p> <ul style="list-style-type: none"> • Extension of the NPTG's substation by a complete set of two 10kV feeders • About 2.0km double-circuit 10kV OHTL • 10/0.4 kV complete set substation with 2x1,250 kVA capacity at the WRP site. <p>The location of this substation and related electrical building is the responsibility of the Bidder. The proposed location shall be shown in the Bidder's preliminary design report (general arrangement drawing and site layout), as part of Part 1, Section III, TECH-1 Design Proposal. Electrical system coordination is part of the Bidder's task (See section # 2.6.4.5).</p>
Question 19:	Kindly advise us with the available area for the wastewater recycling plant.
Answer 19:	<p>Please refer to:</p> <ul style="list-style-type: none"> - The introduction section # 2.1 of the Employer's Requirements: the WRP is located adjacent to the new CWWTP, on the west side, to maintain continuity in land use within UB City; - The data on the WRP location in section # 2.2.1.1: The total area for the WRP in its final configuration is about 5.5 hectare (incl. space for future expansion); - The drawing: C-100 Preliminary WRP Layout that can be downloaded from the link given: ER and its Annexes (3.1 WRP pdf).
Question 20:	<p>Kindly advise us with the length, diameter, material and all other related piping specs of the following pipeline in case it is under the scope of this contract:</p> <ol style="list-style-type: none"> a) CWWTP Effluent pipeline that will be connected to Junction Box. b) Pipeline of Sludge Handling Facilities at the WRP, which will temporarily store the suspended solids and chemical precipitates removed in the liquid stream treatment process at the WRP and convey them to the 'A-Train' primary

	<p>clarifiers at the new CWWTP.</p> <p>c) Pipeline of Transfer Pump Station 2, which will convey, meter, and monitor the quantity and quality of recycled water flow to CHPP #3 and #4.</p> <p>d) Pipeline of reject / drain for Transfer Pump Station #</p>
Answer 20:	<p>Kindly note the following:</p> <p>a) There is no CWWTP effluent pipeline. The CWWTP contractor will be building an effluent channel. The WRP influent pipeline that will be connected to Junction Box will be designed by the Bidder as part of its Preliminary Design Proposal (form TECH-1), including pipe diameter, length and hydraulic gradient. The capacity of the junction box structure and effluent pipeline shall be suitable accommodate future flows of up to 100,000 m³/day. Please refer to section 2.17.1 of the ER (Junction Box and Transfer Pump Station #1) and Drawing D-101;</p> <p>b) The pipeline of Sludge Handling Facilities at the WRP will be designed by the Bidder and is also part of its Preliminary Design Proposal. For clarity the line shall be a permanent installation. The design of the force main will need to be coordinated with the CWWTP Contractor and PIU/CWWTP (USUG). Pipeline length between the waste stream equalization (EQ) basin(s) at the WRP and the “A Train” primary clarifiers at the new CWWTP is approx. 800 meters (this is indicative only). Design parameters/criteria of the force main (HDPE pipe OD 200 mm) and solids pumps (capacity, TDH, number of proposed pumps) are given in Table 2-13 of the ER. Solids handling equipment and system description would need to be developed by the Bidder as part of its Preliminary Design proposal;</p> <p>c) The recycled water transmission pipelines will be designed by other consultant and built by other contractor beyond the connection point. Please refer to Section # 2.17.11 (Transfer Pump Station #2) and Answer to Question #16. The WRA Contactor shall design only to the connection points outside of the Pump Station #2 with: (i) Connection to the transmission pipelines conveying recycled water to the CHPPs (to be designed and built by other contractor, for capacity of 50,000 of m³/day) and (ii) Connection to future potential users in the future (to allow future expansion of the system to 100,000 m³/day). Note that per Employer’s Requirement clause 2.17.11 the Contractor shall install the effluent flow meter and pipe and valves associated with it;</p> <p>d) If the question refers to Transfer Pump Station #1: the remaining effluent from the CWWTP (not flowing to the junction box and effluent inlet pipeline) will automatically flow to the Tuul River without need for the operators to take any action. If the question refers to Transfer Pump Station #2, an emergency bypasses facility (channel or pipe) to direct the flow to CWWTP effluent channel is to be planned and designed by the Bidder.</p> <p>The Bidder may propose alternatives as described in the ITB. The Bidder shall comply with typical industry practice and shall follow all material and similar requirements from the specifications in the Employer’s Requirements.</p>
Question 21:	<p>Kindly advise if there will be two more closely related investment activities under this contract:</p> <p>a) Downstream Wells Activity, to construct new groundwater wells with attendant transmission lines, reservoirs, and an advanced water purification plant.</p> <p>b) Water Sector Sustainability Activity, to support policy reforms, capacity</p>

	building, and technical assistance to improve the long-term sustainability of Ulaanbaatar's water supply.
Answer 21:	These are the other activities to be implemented under the Compact. However, there is no contractual implication of the WRP contract with these investment activities. The Downstream Wells Activity and Water Sector Sustainability Activity will be conducted by other contractors. Some coordination will be required between the WRP Contractor and the Employer's Training as part of the WSS Activity (refer to section # 2.27.4).
Question 22:	Kindly advise if the contractor should follow REVISED DRAFT Employer's Requirements clause 2.3.4 Qualifications of Contractor's Staff, 2.3.5 Qualifications of Manufacturers of, or to follow Bidding Documents Section III: Qualification and Evaluation Criteria .
Answer 22:	<p>The staff qualification requirements in both documents are the same:</p> <ul style="list-style-type: none"> • Key personnel table (page 67) of the Bidding Document (Section III) list only the <u>key personnel</u> for which the Bidder needs to provide a copy of the Curriculum Vitae (signed by these twelve (12) key employee concerned, filling for these purposes Form TECH-8). • Section # 2.3.4.2 (Staff Qualification Requirements) of the revised draft of the ER provides for the minimum education requirements and minimum experience requirements (in total and in similar works) as well as the position description for <u>all personnel</u> that the Bidder would need to mobilize inclusive of members of the: <ul style="list-style-type: none"> - Management team - Design team - Construction team - Commercial team - Quality control team - Health & Safety team - Other staff (no minimum educational or experience required) <p>Therefore, both requirements of Section III Bidding Documents (key personnel) and of Section # 2.3.4 of the ER shall be met by the bidder.</p> <p>The qualification requirements of manufacturers given in # 2.3.5 of the ER indicate that the manufacturers proposed by the Bidder shall provide evidence that their equipment is being used successfully in at least three (3) similar-sized wastewater treatment plant or WRP applications and that this equipment meets or exceeds performance requirements. In addition, the Bidder shall list (under item (k) of Form TECH-1, Design Proposal, Section III of BD) the particulars (name of proposed supplier, model number, and country of origin) of major project component exceeding in value \$25,000. Therefore, both requirements of ER # 2.3.5 and of the form TECH-1 (item k) shall be met by the Bidder.</p>
Question 23:	In case that the "Qualifications of Manufacturers" should be submitted by the contractor. Kindly advise where to add the data of Qualifications of Manufacturers. Shall we consider it under Form TECH-1.
Answer 23:	Please refer to answer to Question #22. "Qualifications of Manufacturers" shall be indicated by the Bidder in table item (k) of Form TECH-1 for proposed major project components exceeding value of \$25,000.
Question 24:	<p>Kindly note that below documents are not available:</p> <ol style="list-style-type: none"> a) Annex 2, 3 and 4 of the Bidding Documents Employer's Requirements b) Table 2-4 of the employer's requirements

Answer 24:	<p>Kindly note:</p> <ul style="list-style-type: none"> a) Annex 2, 3 and 4: The link of Part 2, para. 3 (ER) of the IFB (Link for the ER, ‘Technical Documents’) provides under ‘ER & its Annexes) the following: <ul style="list-style-type: none"> - Relevant Mongolian Laws and Regulations (Annex 2 of the ER document) - Relevant Design Standards (Annex 3 of the ER document) - Construction Norms and Normative Documents (Annex 4 of the ER doc.) b) Table 2-4 (Design Finished Water Quality Criteria for the WRP) is given in page 11 of the revised draft of the ER. <p>See also Answer 8 for the links directing to the information required for preparing the bid.</p>
Question 25:	Kindly advise us with the requested period of commissioning and trial run.
Answer 25:	<p>Please refer to Section # 2.26.5 of the ER document. This section covers the programme requirements for the commissioning, trial-run, and ongoing training services. The services to be offered by the WRP Contractor during the Start-up, Commissioning and Trial Periods are also described in this section inclusive of the training services during Commissioning and Start-up (CSU) Period. The CSU period including the trial run operations and the commissioning Tests is defined by the Bidder’s Program and shall run till acceptance and issuance of the Taking-Over Certificate (TOC). See Answer 6 the Tests on Completion (the Trial Run) will consist of one month of producing water which will be discharged to the CWWTP effluent channel and then five days of testing of the pumping system. An Addendum will be issued in the beginning of September 2021, which further clarifies the timelines.</p>
Question 26:	Kindly advise if this contract shall include any operation and maintenance cost and for how many years.
Answer 26:	<p>There is no period of operation and maintenance for the contract after the Tests on Completion. The Contractor will be responsible for all costs for the facility up until the issuing of the Taking Over Certificate. Following the Taking Over Certificate the Contractor shall provide oversight to USUG who will operate and maintain the facility. An Addendum will be issued at the beginning of September, 2021 to clarify the Contractor’s responsibilities during the Defects Liability Period.</p> <p>Please refer to section #2.7.2 (<i>Equipment Warranties</i>) and, #2.7.3 “(<i>Spare parts</i>)” for the requirements for items which must be provided by the Contractor prior to the Taking Over Certificate for use by USUG during operation. Per 2.3.1 the Contractor shall leave the chemical tanks at the facility full at the time of the Taking Over Certificate.</p> <p>The WRA Contractor shall conduct the operation and maintenance of the plants using different O&M procedures and using the trained USUG Employer staff, based on his proposed MMS (<i>Maintenance Management Requirements</i>) for the WRP components of the Project.</p> <ul style="list-style-type: none"> - The bid price, as quoted under <u>item 1.06</u>, shall include all costs for ‘<i>Commissioning, Trial Run and Testing</i>’ as described under # 2.26 and all costs related to ‘<i>Hand-over after Defect Notification Period</i>’ as described under # 2.27, inclusive of training costs defined under # 2.27.4 (Training of Employer ‘staff’) and # 2.27.11 (Training and Support during Defect Notification Period). - The bid price as quoted under <u>item 1.08</u>, shall also include the provision of specific items such as mandatory spare parts, of tools, specialty tools and use of cranes, as well as laboratory equipment and consumables.

Question 27:	Kindly advise if Spare parts, chemicals and consumables should be included in the price schedule and for how many years to be supplied.
Answer 27:	Please refer to answer to Question 26.
Question 28:	As per clause 1.2 Schedule of prices; Kindly advise if “Design and Construct Power Supply facilities (extension of NPTG’s substation, 10kV double-circuit OHTL, 10/0.4kV substation with 2x1250kVA capacity at the WRP site) as per the requirements of the Technical condition and Design task issued by the MOE” will be under the scope of this contract.
Answer 28:	Please refer to the Answer to Question #18. The scope of design and construction of the said facilities is under this contract, as per the provision of the Letter of Bid (Section IV), the Preamble and Clause 1.2 of the Schedule of Price (item 1.10) and section #2.17.16 of the ER document (Power Supply Facilities at the WRP).
Question 29:	<p>Kindly confirm if the following drawings should be submitted at tender stage and advise if any compensation will be provided for the contractor for such work.</p> <ul style="list-style-type: none"> a) PFDs and P&IDs. b) CADA system hardware and software integration block diagrams. c) Horizontal and Vertical Layout Plans. d) Site Design. e) Hydraulic Profiles. f) Process Design. g) Structural Design. h) Architectural Design. i) Electrical Design. j) Lighting and Power Distribution Design. k) Instrumentation and Control Details. l) Yard piping plan and profiles (not to include the transmission pipeline) m) Pump station and storage tank plans and elevations n) Other Project Details
Answer 29:	<p>Please refer to</p> <ul style="list-style-type: none"> - Section IV, Bid Forms, Part 24, Form TECH-1 (Design Proposal), paragraph (a): The Preliminary Design shall comprise Drawings and Technical Specifications. Drawings scales shall range from 1:50 to 1:500, or as otherwise specified in the ER, shall be prepared by the Bidder as part of this Design Proposal. - Section # 2.6.4 of the Employer Requirements (Design Proposal): The Drawing items a) to n) shall be part of the Bidder’s Preliminary Design Report (part of the Design Proposal under Form TECH-1). No compensation will be provided for the Bidder for any design material prepared at bidding stage.
Question 30:	Indicate the location in UB for our independent company inspection of the area.
Answer 30:	Please refer to the Answer to Question #19. The site is at the Central Wastewater Treatment Plant of Ulaanbaatar approximately at 47.9013826974638, 106.75138715043565.
Question 31:	Is the intended wastewater recycling facility to be connected to an existing STP? If yes, is there an available historical operating data for the plant which could provide real time details of the wastewater quality as basis

Answer 31:	<p>The WRP influent is to be drawn from the effluent of the new CWWTP. Since this plant is under construction there is no available historical operating data. Please refer to Section 2.2 of the ER document (Project Scope) inclusive of the data provided in Table 2-1 (design effluent quality discharge requirement), Table 2-2 (influent pH and alkalinity) and Table 2-3 (WRP influent water quality regarding hardness, chloride and SiO₂) for the WRP influent characteristics for the new CWWTP.</p> <p>Some CWWTP historic effluent quality data from the existing WWTP can be found in Annex 1 of the ER (using the link of Part 2, para. 3 (ER and its Annexes) of the Bidding Document however note that the CWWTP is being rebuilt by other contractor and this historic data is likely not representative for many characteristics of the future wastewater.</p>
Question 32:	With regard to Bidding Document Section V Employer Requirement - Kindly provide feed and expected product water quality for the reuse water plant.
Answer 32:	Please refer to Table 2-4 (Design Finished Water Quality Criteria for the WRP), section # 2.2.1.3 of the ER document.