

Ref No: MCA-M/CF/WRA/CS/01

**Procurement of Consultant Services
for Developing Detailed Design for Conveyance System (Water
Transmission Pipeline and Related Infrastructure) and
Modification Works at CHPP #3 & #4, (components of SCADA
system), Development of RAP for the route of the Conveyance
system, and Conducting DEIA and ESIA for the Wastewater
Recycling Activity**

**ANSWERS TO CLARIFICATION QUESTIONS – ISSUE No. 2 (Questions 14-59)
(Date of Issuance: March 23, 2021)**

| Questions and Answers 1-13 issued to all registered Consultants on March 15, 2021 | |
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| Question 14: | Will the Pre-Proposal Conference be conducted in English? |
| Answer 14: | Yes, all correspondence and documents relating to the Proposal and Contract shall be in English. |
| Question 15: | Will the Minutes of the Pre-Proposal Conference be sent via email later? |
| Answer 15: | Yes, the Minutes of the Pre-Proposal Conference, together with the Presentations and link to the Video from the Pre-Proposal Conference will be distributed to all registered Consultants with this Clarification No.2 on March 23, 2021. |
| Question 16: | Will the attendance list of registered Consultants be included with the Minutes of the Pre-Proposal Conference, despite attendance at Pre-Proposal Conference not being mandatory. |
| Answer 16: | Yes, as stated in the Instructions to Consultants (ITC 8.3): <i>“Minutes of the Pre-Proposal Conference, including the text of the questions and answers pertaining to the Conference, without identifying the source, will be posted on the MCA Entity’s website..., and shall be transmitted in writing to all shortlisted Consultants or Consultants who have registered or obtained the RFP directly from the MCA Entity, as the case may be.”</i> |
| Question 17: | Is it possible to Submit either The Technical Proposal and/or the Financial Proposal without password protection ? |
| Answer 17: | <p>Yes, Technical and/or Financial Proposals are not required to be password-protected, but may be protected at the Consultant’s discretion. Consultants who choose to password-protect their Technical and/or Financial Proposals can do so to protect against inadvertent untimely opening of its proposal, but at their own responsibility for providing the correct password.</p> <p><i>As stated in Proposal Data Sheet (PFS) or ITC 17.3(g) and 17.3 (h) respectively:</i></p> <p>17.3(g): <i>“If a Consultant submits a Technical Proposal with password protection, the password for the Technical Proposal should be sent no earlier than 00:00 a.m. of April 20, 2021 and no later than 10:15 am of April 20, 2021, Ulaanbaatar, Mongolia local time to the following email addresses: PA-</i></p> |

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| | <p>Mongolia@charleskendall.com cc to procurement@mca-mongolia.gov.mn. Case-sensitive passwords should be sent as is, with the cases obvious.”</p> <p>17.3(h): "If a Consultant submits a Financial Proposal with password protection, the password for the Financial Proposal shall be sent to the following email addresses: PA-Mongolia@charleskendall.com cc to procurement@mca-mongolia.gov.mn at the time and date provided, along with the notice described at ITC 25.6, to those Consultants whose Technical Proposals achieved the minimum qualifying mark. Case-sensitive passwords should be sent as is, with the cases obvious.”</p> |
| Question 18: | Please advise if prior experience with MCC/MCA is a mandatory criteria (or could be a disqualifying factor). It is understood that any past experience should be included, but it is not clear if prior experience is mandatory or not. |
| Answer 18: | Prior experience with MCC and/or an MCA-Entity is not mandatory or a necessity for award of Contract. However, if the Consultant has participated in any MCC-funded contracts, the Consultant is required to disclose this in Form TECH-5 - References of MCC-Funded Contracts. |
| Question 19: | With regard to Terms of Reference VI.2 - Key Personnel - Please clarify if a single Expert can be named for more than one Key Personnel position, under condition that (s)he fulfills all relevant qualification criteria. |
| Answer 19: | <p>The Consultants shall nominate separate individuals for each Key Professional Personnel position. Each Key Personnel positions must be filled by different individuals.</p> <p>This Clarification shall be confirmed in Addendum 1 to the Request for Proposals to be issued to all registered Consultants imminently.</p> |
| Question 20: | If the Project Manager does not meet one of the qualification criteria, will (s) he lose the whole 5 points or be given certain points marking the other qualification? |
| Answer 20: | The qualification of the Key Personnel will be evaluated against the requirements and evaluation criteria indicated in the RFP. The points will be given to each sub-criterion separately. This will result in a lower Technical Score for the Consultant and a Proposal will be rejected, if it does not earn a total minimum score of 80. Furthermore, Proposals may be rejected, at the discretion of the MCA Entity, if any of the Key Personnel fails to satisfy the mandatory requirements. |
| Question 21: | Please clarify whether the funding will be awarded after the contract is signed or it will be awarded after the project is done. |
| Answer 21: | Please refer to the Terms of Reference VII - Payment Schedule - in the RFP. |
| Question 22: | We understand that the Basic Design of the SCADA of Task 3 does not include the interior of the WRP, is that correct? |
| Answer 22: | Correct, the SCADA for the interior to the WRP is not in this Consultant's scope of work. The Consultant shall design the components of the SCADA system installed at the Combined Heat and Power Plants #3 and #4 and the water storage tank and boosting pump station nearby the CHPP #3. Those SCADA system components will be interfaced to the SCADA system of the Water Recycling Plant with the purpose to provide an integrated control on production and supply of treated water to the Combined Heat and Power Plants #3 and #4. |
| Question 23: | Are you going to provide the successful Consultant more information on the existing CHPP, in order to design the modifications; or only the plans that are in the annexes of the Bidding Documents? |

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| Answer 23: | Feasibility Study reports and other relevant documents will be provided to the successful Consultant. |
| Question 24: | Are the pipes connecting the wells part of the Consultant's scope? |
| Answer 24: | No, this is not part of the Consultancy Service. The Consultant will only be required to develop the detailed design of recycled water transmission pipelines from the Water Recycling Plant to the Combined Heat and Power Plants #3 and #4. |
| Question 25: | <p>With regard to Terms of Reference 3.3 - Deliverable Schedule of Task 3:</p> <p>According to the Deliverable Schedule shown under the Task 3 description, beside the Responses to the Design Review Comments, the Final Basic Design Report shall also be submitted within the 120 project calendar days (last row in the table).</p> <p>However, according to the Terms of Reference V.7 - Deliverables - there is only one deliverable under Task 3, i.e., Basic Design Report to be submitted latest after 120 calendar days from Effective Date.</p> <p>Moreover, in the Terms of Reference section called "Standards and Regulations" it states <i>"The Consultant should submit the basic design as part of the 30% design deliverable package. Calculations, estimations and detail design that incorporates review comments from the basic design of all the packages must be included in the 60% design deliverable."</i></p> <p>Please confirm that the mentioned due date (120 days) refers to the Draft Basic Design Report and that no Final Basic Design Report within Task 3 shall be submitted.</p> |
| Answer 25: | <p>The Basic Design Report reflecting 30% design, as described under Task 3, shall be submitted within 120 calendar days from the Contract signing date.</p> <p>The Basic Design Report shall be updated in the consecutive (60% and 90% and 100%) stages, as set forth in the Terms of Reference section called "Standards and Regulations".</p> <p>The Basic Design Reports shall be updated to reflect all comments provided by MCA-Mongolia and Project Management Consultant and comments provided by the State Expertise at each consecutive (60%, 90%, and 100%) stages, as part of the deliverable described under Task 7 and in V.7.</p> |
| Question 26: | With regard to Terms of Reference V.3 - Background - the Draft Employer's Requirements and Feasibility Study Report [...] will be available for review in the Data room [...]. Please indicate how to access the named data room, if there are further documents available to prepare the bid in addition to the ones provided as Annexes to the RFP (via dropbox). |
| Answer 26: | <p>Consultants are informed that all information required for preparing Proposals are included in the RFP document. There will not be a data room session as part of this procurement process and all references to the data room should be disregarded.</p> <p>This Clarification shall be confirmed in Addendum 1 to the Request for Proposals to be issued to all registered Consultant imminently</p> |
| Question 27: | In TECH 2A, please advise if we are to submit all 3 of the following evidence, or if it is just 1 of the 3. |

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| | <ul style="list-style-type: none"> - Audited financial statements for the last three (3) years, supported by audit letters. - Certified financial statements for the last three (3) years, supported by tax returns. - Evidence of financing dedicated for the implementation of the consulting services as attested by an authorized representative of the Consultant. |
| Answer 27: | <p>See Form TECH-2A in the RFP</p> <p>Consultants must submit either:</p> <ul style="list-style-type: none"> - Audited financial statements for the last three (3) years, supported by audit letters; - Certified financial statements for the last three (3) years, supported by tax returns; or - Evidence of financing dedicated for the implementation of the consulting services as attested by an authorized representative of the Consultant. |
| Question 28: | <p>Please advise if prior experience with MCC/MCA is a mandatory criterion (could be a disqualifying factor).</p> <p>It is understood that any past experience should be included, but it is not clear if prior experience is mandatory or not.</p> <p>The following 2 statements are from the RFP:</p> <ul style="list-style-type: none"> - “That is, prior performance in connection with an MCC-funded contract is not required. “ - “TECH-4 (Consultant’s experience) shall include all MCC-funded assignments of a similar nature. Failure to include experience in any project where MCC funds were used may result in disqualification of the Proposal.” |
| Answer 28: | Prior experience with MCC and/or an MCA-Entity is not mandatory or a necessity for award of Contract. See response to Question 18. |
| Question 29: | Reference is made to TOR-Annex 1, clause 7.3.4 (All main and reserve feeders and power transformers must have electric meters. All meters should be connected to a monitoring network). The understanding from this clause is all meters should be connected to the existing SCADA network. Please confirm or advise otherwise. |
| Answer 29: | These will be interconnected with the existing DCS of CHPPs and a new SCADA network as there will be an interaction between existing systems and a new SCADA network. |
| Question 30: | For the scope of work of external lighting, the understanding is that the external lighting will cover only the surrounding area of the new pumping station. Please confirm or advise otherwise. |
| Answer 30: | External lighting will be designed on the areas that are required, and it should also include the CHPPs area, storage tank, and new pumping station as well. |
| Question 31: | The understanding from clause 5.4 (Requirements for extending 0.4kV distribution panel) and related sub-clauses in TOR-Annex 3 is that the existing 0.4 kV switchgear will be replaced by new one to supply the existing and new loads with providing higher rating of main incomer breakers, bus section and main busbar to suit the new sizes of transformers (800kVA). Please confirm our understanding or advise otherwise. |
| Answer 31: | Yes. That’s a correct understanding. |

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| Question 32: | Section V.2 Objectives of this Assignment: Item iii states the scope of work includes “Assist with preparing relevant portions of tender documents for the procurement of this work under a FIDIC Redbook contract”. Does this assistance include the preparation of tender conditions and procedures, conditions of contract, contract agreement, etc... and what are the “relevant portions of tender documents” referred to? |
| Answer 32: | Any portion of the bidding document (Including sections of the “Invitation for Bids”), which potentially may require technical input or assistance of the selected Consultant,” can be considered as the “relevant portions of tender documents”. The projects will use MCC standard bidding documents, General Conditions of Contract (FIDIC) and MCC’s standard Particular Conditions of Contract, and the Consultant’s work shall be coordinated and complementary with these documents. |
| Question 33: | <p>Section V.5: Scope of Services: Task 3 – Basic Design Project Cost:</p> <ul style="list-style-type: none"> a. It assumed that Operation and Maintenance costs will be limited to a high-level annual expenditure (cost/sqm/annum, cost/lm/annum, % of estimated construction cost). Please confirm or advise otherwise. b. It is assumed that land acquisition costs are to be provided by MCC. Please confirm. |
| Answer 33: | <ul style="list-style-type: none"> a. The Consultant shall separately estimate physical contingencies, currency fluctuations and price escalation for each aspect of the investment program in a format and a substance acceptable to MCA-Mongolia. Similarly, the Consultant shall estimate operation and maintenance costs associated with proposed investments. Cost estimates (construction and operation costs) shall be prepared in order to calculate budget requirements for MCC to allocate funding priority for the various Compact activities. The Consultant shall provide determination of pumping costs including coordinating with the Design Build contractor to estimate the pumping costs through the main pipelines from the WRP and estimating the pumping costs from the pump station being designed by the Consultant to CHPP#3. Industry standard metrics shall be used for estimation of maintenance costs for infrastructure that will be prepared by the Consultant with reference to widely followed International Standards. b. The Consultant will have to include projected costs for land acquisition in the estimates of project cost as described in the Scope of Services, which states the estimates shall include “costs relating to project management, supervision, and environmental management plans including resettlement and land acquisition, and health and safety costs...” Funding for land compensation related to RAP implementation is not covered by this Contract and will be funded and disbursed as separately agreed among the Government, MCA-Mongolia, and MCC. |
| Question 34: | <p>We need a confirmation that the geotechnical scope is limited to the program given in the TOR that includes the following:</p> <ul style="list-style-type: none"> a. Drilling of 24 boreholes down to a depth of 8m b. Drilling of 6 boreholes down to a depth of 15 m c. Carry out 300 SPT tests, at the locations of the above recommended thirty boreholes d. No interpretation for the results of the investigation shall be carried only the factual data shall be provided |

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| | Please confirm also that the cost of the investigation shall be paid directly by the Client not by the Consultant. |
| Answer 34: | <p>This number only reflects the boreholes at the WRP site, as described in section V.5, Task 2.2.2. Note that Task 2.2.2 also requires soil samples and analysis. For the transmission pipelines and CHPPs area, the Consultant will be responsible for determining the number of boreholes, as described under Task 2.</p> <p>The Consultant shall include the cost for the scope described under Task 2 in its Financial Proposal. The Employer will pay the Consultant as described in the Section VI. It is the Consultant's responsibility to make arrangements with entities that will perform the scope under Task 2.</p> |
| Question 35: | <p>Please confirm the requirements that distinguish between DEIA (Detailed Environmental Impact Assessment) and ESIA (Environmental and Social Impact Assessment) since both are required in the RFP. It is the consultant's experience that a comprehensive ESIA should incorporate all that is required to assess impacts to the physical, biological and social environments.</p> <p>a. In support of this question, it is recognized that as per Law of Mongolia on Environmental Impact Assessments (2011), a DEIA will be required. Can it therefore be assumed that ESIA is the requirement of the MCC funding? Hence two assessments are specified in the TOR.</p> <p>b. Can the Consultant recommend that a single ESIA is developed that incorporates scope required by DEIA and ESIA?</p> |
| Answer 35: | <p>a. Yes. These two environmental impact assessments (ESIA/DEIA) are similar studies. Both ESIA and DEIA will be conducted simultaneously. Yes. ESIA will be conducted consistent with MCC's requirements including MCC Environmental Guidelines, IFC Performance Standards on Environmental and Social Sustainability, Gender Policy, MCC CTIP, MCC Guidance Note to MCAs on Sexual Harassment and other relevant policies.</p> <p>The DEIA shall be prepared in accordance with the Mongolian requirements including A-117 'Guideline on Detailed Environmental Impact Assessment' and Law on Environmental Impact Assessment, Public participation in EIA procedures and EIA procedures.</p> <p>b. No. The Consultant shall develop two assessments separately. The Consultant shall use the A-117 format for DEIA report and Environmental and Social Impact Assessment Report format (Appendix D) according to MCC Environmental guidelines.</p> |
| Question 36: | Please confirm that the environmental consultancy that undertakes the environmental and social assessment(s) must be licensed by the Mongolian state administrative body in charge of nature and environment. |
| Answer 36: | Yes. The DEIA must be undertaken by a licensed environmental consulting firm by the Mongolian state administrative body in charge of nature and environment. This is required by the Law on Environmental Impact Assessment and A-117 "Guideline on Detailed Environmental Impact Assessment". The Consultant may require other expertise to complete the ESIA in accordance with MCC (IFC) standards. |
| Question 37: | Article 7 of the Law of Mongolia on EIAs (2011) suggests that two assessments are necessary for EIA (General EIA and Detailed EIA). Can the client confirm whether |

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| | General EIA is also required to meet this project's Mongolian regulations or only DEIA? |
| Answer 37: | There are two types of EIAs defined in the law: an initial screening through a general environmental impact assessment (GEIA) and a full detailed environmental impact assessment (DEIA). The GEIA is a document screening process including environmental baseline assessment, feasibility study, and other relevant documents such as a written approval of Soum (second level administrative district) governor. All required documents (EBA, FS and others) for the GEIA approval will be submitted to the MET by a Project Implementer (MCA-Mongolia) after the Consultant has signed the contract. The Consultant shall be responsible for DEIA and ESIA. |
| Question 38: | Can the Client provide a list of environmental consultancies that are approved by the Mongolian state administrative body in charge of nature and environment? |
| Answer 38: | Please check the website of Ministry of Environment and Tourism (MET-State administration body in charge of nature and environment) which listed of all licensed environmental consultancy firms of Mongolia. https://eic.mn/eia/orgpermission.php |
| Question 39: | Article 7.6 of the Law of Mongolia on EIAs (2011) suggests that the 'state central administrative organization in charge of nature and environment shall appoint the experts to work on the assessment'. Is this still the case, or is the Consultant expected to appoint the appropriately experienced EIA/ESIA sub-consultants? |
| Answer 39: | Article 7.6 of the Law of Mongolia on EIAs (2011) specifies that "MET appoints the experts who evaluate the general or detailed environmental impact assessment documents/reports that the Consultant completed". The Consultant is expected to appoint/choose Sub-consultants (licensed firm) from a list authorized by the MET to conduct a Detailed environmental impact assessment in compliance with relevant regulations. |
| Question 40: | Aside from the regulatory requirements embodied within Law of Mongolia on EIAs (2011), does the Millennium Challenge Corporation (MCC) require any specific environmental and social safeguards to be adhered to? For example, World Bank Group Environmental and Social Framework, Asian Development Bank Environmental and Social Safeguards, or the Equator Principles? |
| Answer 40: | <p>The Consultant is directed to the Section in the Terms of Reference entitled "Standards and Regulations" and "Objectives and requirements of the ESIA and DEIA".</p> <p>MCC requires ESIA must meet with IFC Performance Standards on Environmental and Social Sustainability, MCC Environmental Guidelines, The World Bank Group General Environmental, Health and Safety Guidelines and EHS Guidelines for Water and Sanitation, MCC Gender Policy, MCC Counter-Trafficking in Persons Policy, MCC Guidance Note to MCAs on Sexual Harassment and other relevant policies.</p> <p>Furthermore, Consultants should consider the contents of the following guidelines and standards: https://www.mcc.gov/resources/doc/environmental-guidelines. IFC Performance Standards on Environmental and Social Sustainability: https://www.ifc.org/wps/wcm/connect/24e6bfc3-5de3-444d-be9b-226188c95454/PS_English_2012_Full-Documents.pdf?MOD=AJPERES&CVID=jkV-X6h</p> |

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| | <p>World Bank Group EHS Guidelines: https://www.ifc.org/wps/wcm/connect/topics_ext_content/ifc_external_corporate_site/sustainability-at-ifc/policies-standards/ehs-guidelines/ehsguidelines</p> <p>EHS Guidelines for Water and Sanitation: https://www.ifc.org/wps/wcm/connect/0d8cb86a-9120-4e37-98f7-cfb1a941f235/Final%2B-%2BWater%2Band%2BSanitation.pdf?MOD=AJPERES&CVID=jkD216C</p> |
| Question 41: | Section V - Terms of References (TOR), V.5 - Scope of Services and Annex 6, referring to Clause 10.10 in Annex 6 to the TOR, it is understood that the Design Consultant will be responsible for designing the components of an integrated SCADA system that will communicate with the SCADA systems of the CWWTP, WRP and the CHPP's in addition to the control and monitoring of the transmission pipelines (recycled water), pumping station and storage tank between the WRP and the POC's with the CHPP's. Kindly confirm. |
| Answer 41: | As per the Scope of work, the Consultant will be responsible for designing the SCADA that is capable of interacting with the existing DCS of CHPPs, and newly installed equipment that the Consultant designs (e.g. at the pump station that lifts the water to CHPP#3) and the SCADA for WRP to coordinate control of the pumps which will feed water into the pipelines. |
| Question 42: | Section V - Terms of References (TOR), V.5 - Scope of Services and Annex 6, the scope of work of the Design Consultant will not include any design of the SCADA system supervising the control and monitoring of the new CWWTP. Kindly confirm. |
| Answer 42: | The SCADA of CWWTP design is not included in the scope of work of this Consultant Services. |
| Question 43: | Section V - Terms of References (TOR), V.5 - Scope of Services and Annex 6, the scope of work of the Design Consultant will not include any design works of the SCADA system supervising the control and monitoring of the treatment process within the WRP. Kindly confirm. |
| Answer 43: | The design of the WRP SCADA system is not included in the Consultant's scope of work, but the SCADA system for the Conveyance system and newly installed equipment at CHPPs should interact with the SCADA of WRP specifically on the control of the pumps at the WRP that will pump water into the pipeline. |
| Question 44: | Section V - Terms of References (TOR), V.5 - Scope of Services and Annex 6, the existing SCADA systems of the CHPP's will be modified to reflect the changes in the circulating water networks only without any modifications in the power generation or district heating processes. Kindly confirm. |
| Answer 44: | Modification design work at the CHPP by the Consultant will include modifying the existing technical water scheme (treated water will be provided to only the cooling water circulation system, hydraulic ash removal system, and firefighting water system) and the SCADA design related to the modification works. In addition, the Consultant will design the relevant infrastructure and a construction design of the Pumping station and the Storage tank near CHPP #3 and the SCADA system which shall include those elements. As of now, the CHPPs are controlling the cooling system with their own DCSs. During the design stage, it should be studied more by the Consultant. The Consultant will not be required to modify any controls associated with power generation or district heating which are not related to the change in technical water supply. |

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| Question 45: | Annex 1 and Annex 3, it is assumed that the freshwater wells are supervised by the existing SCADA systems of the relevant CHPP's. If yes, what is the communication network linking the wells with the CHPP's. If not, it is proposed to have the wells controlled and monitored by the new SCADA system. Kindly confirm. |
| Answer 45: | Existing DCSs for the Groundwater wells of CHPPs will not be modified, and a new SCADA system will not include the control and monitoring of the existing wells. |
| Question 46: | Section V - Terms of References (TOR), V.5 - Scope of Services, if the existing SCADA systems and PLC's of the CHPP's are found to be old / obsolete, not supported any more by their manufacturers and without any spare input/output points or with proprietary communication networks incompatible with any current standard industrial communication protocol, which necessitating an upgrade or replacement of the existing platforms hardware/software/controllers of the entire plants. Is the associated design work of the aforementioned upgrades/replacements is part of the Design Consultant's scope? Please clarify. |
| Answer 46: | New SCADA systems that will be designed by the Design consultant shall interact with only existing DCSs which are related to the cooling or circulating water portion such as PLC or remote modules. The project will not be providing replacement for control work for the entire CHPPs. |
| Question 47: | Section V - Terms of References (TOR), V.5 - Scope of Services, referring to clause 3.2 in Section V (TOR), the Design Consultant is supposed to closely work with the technical staff of the CHPP's for determining the final solutions of the detailed design and proposing any required changes from the scopes presented in the annexes of the TOR. Kindly clarify to which extent the changes from the scope are expected and how such changes will be treated. |
| Answer 47: | It is expected that there will be technical meetings with all stakeholders, including technical staff at CHPPs, to finalize all design requirements with regard to modifications at the CHPPs. Annex 1-4 provides scope of design of general modifications at the CHPPs. Layout and design requirements described in the Annex 1-4 are preliminary. It is expected that after consultation with all relevant stakeholders, some preliminary aspects within the scope described in the bidding documents can be modified, however the Consultant shall manage the option analysis process so that only one option is carried forward into the final design, and its fee shall cover the design of that option. Only a major change (as determined by MCA) in the overall scope of the project shall constitute the grounds for a change order to the Consultant and any such change shall be proactively identified by the Consultant during initial work and prior to execution of any such work. The Consultant shall update design requirements as the design progress at 30%, 60%, 90%, and 100% stages. |
| Question 48: | Section V - Terms of References (TOR), V.5 - Scope of Services, please provide basic information about the existing SCADA systems/PLC's of the CHPP's like the manufacturer and installed system, year of installation, software version, system architecture, communication network and protocols, used I/O's, spare I/O's, others. |
| Answer 48: | CHPPs are using DCS, SCADA, and standalone systems based on various types of ABB, Honeywell, Siemens, Yokogawa, Schneider Electric, Advantech, and MOXA's hardware and software. |
| Question 49: | Section V - Terms of References (TOR), V.5 - Scope of Services, please provide the required design deliverables of the SCADA system at each design stage. |
| Answer 49: | The SCADA work shall comply with all Standards and Regulations noted in Section V-TOR. The SCADA work shall progress consistently with the level of design of the infrastructure. It is expected that in preliminary and 30% submittals, a clear definition |

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| | of protocols, approaches and major types of hardware will be provided with all supporting conceptual description. Network diagrams, schematic representation of approach and indicative specifications and equipment shall be provided at this stage. Control narratives shall be started in preliminary and 30% design and shall be progressively advanced in detail through the development of the design. The final design shall provide a full description of the SCADA system in the terms of drawings, specifications and control descriptions which are specified in the prepared bid documents for implementation by the Contractor. Through all levels of the design the clear coordination with the other SCADA systems shall be shown and clearly described. |
| Question 50: | Section III - Qualification and Evaluation Criteria, please provide the required qualifications of the instrumentation and controls engineers of the Design Consultant. |
| Answer 50: | Instrumentation and Controls engineers should have sufficient knowledge and experience in the field to fully design capable system, but this engineer is not deemed as a key personnel thus there is no qualification criteria. |
| Question 51: | Section V - Terms of References (TOR), it is understood that all drawings and documents should be issued in both English and Mongolian language. Please confirm. |
| Answer 51: | Yes, that's a correct understanding, most of the documents that the Consultant produces will be archived in Mongolian National Archives, please refer the Deliverables table on page 144. |
| Question 52: | Section V - Terms of References (TOR), please advise if there is any specific software to be used for the surge analysis of the water transmission pipelines. |
| Answer 52: | The Consultant can use software that they deem most suitable for modelling and calculation for the water transmission pipelines. The Software should be internationally accepted. |
| Question 53: | Section V - Terms of References (TOR), please advise if there is any specific software to be used for the piping stress analysis. |
| Answer 53: | See answer 52 |
| Question 54: | Section V - Terms of References (TOR), V.5 - Scope of Services, it is assumed that all as-built drawings for existing facilities in CHHPs (in CAD format and English language) are available and will be provided to the Consultant upon award. Kindly confirm. |
| Answer 54: | Available design drawings of the CHPPs facilities will be provided to the Consultant after the contract is awarded (as available format). |
| Question 55: | Section V - Terms of References (TOR), V.5 - Scope of Services, it is assumed that the Design Consultants scope will be based on the available as-built drawing for the existing facilities to perform the design. However, the scope will not include the on-site verification that require specialized Contractors, covering as-built verification/preparation, dilapidation survey and a health check for existing equipment. Kindly confirm. |
| Answer 55: | The Design Consultant's scope is described in detail in Annex 1-4. There are no existing facilities for the pipeline design other than crossings and utilities which the Consultant shall identify and mitigate as part of its design. The Consultant shall include sufficient subsurface utilities exploration in its scope to complete its design. The CHPPs have existing facilities. However, the design for modifications at CHPPs are not based on existing facilities. Required and necessary field investigations are described in Section V.5, Task 2. If the Design Consultant believes there is a need to conduct such verification, survey or investigations mentioned in the questions and |

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| | <p>are not described in the bidding documents, the Consultant shall do so at its own cost. The Consultant is expected to conduct site walks and visual inspections to evaluate the actual location of items to which it will connect infrastructure and conduct a visual inspection of the condition of any item to which Works it designs will connect.</p> <p>Note that it is expected that there will be impacts from the work that require resettlement or compensation consideration. The Consultant is required to develop a Resettlement Action Plan (RAP) as described in Section V.5, Task 5.</p> |
| Question 56: | Section V - Terms of References (TOR), V.5 - Scope of Services, please provide the estimated built-up area for the proposed new laboratory buildings in both CHHPs, to be followed by all Bidders. |
| Answer 56: | Approximate areas of the laboratories are in ANNEX-1, and ANNEX-3, but the final area will be determined by the Consultant. |
| Question 57: | Section V - Terms of References (TOR), V.5 - Scope of Services, it is assumed that the requested training for CHHP's operation staff on the use of treated (recycled) water will be part of the Contractor / Vendors scope. Kindly confirm. |
| Answer 57: | These are requirements raised by the Combined Heat and Power Plants. The Consultant shall collaborate with the Operation and Generation Department of the Combined Heat and Power Plants to provide classroom trainings for the CHPP's designated staff as described in the Terms of Reference. The training from the Consultant shall focus on the use of the infrastructure which it has designed and cover how it has integrated that infrastructure into the CHPP. |
| Question 58: | Section V - Terms of References (TOR), V.5 - Scope of Services, it is assumed that the laboratories' equipment data including cut-sheets, technical specification, spatial needs, structural requirements, and MEP requirements will be provided by the Client for the Consultant's consideration during design preparation. Kindly confirm. |
| Answer 58: | Technical specification for required laboratory equipment is described in ANNEX-1 and ANNEX-3 respectively. The Consultant shall be responsible for designing laboratory in accordance with international and local standards or regulations, including providing cut-sheets, technical specifications, and other relevant technical documents for the design and the laboratory equipment. |
| Question 59: | Annex 1, it is mentioned at the end of table named "List of equipment and chemicals for wastewater and microbiological laboratory to control reclaimed water quality in CHPP-3" the need of full renovation of existing laboratory space (refer to page 12 of 19). Accordingly, please advise if the scope includes a renovation for the laboratory space in CHHP#3 in addition to the new laboratory building or if the new laboratory building shall utilize functions related to this space. |
| Answer 59: | Implementation of the renovation is not in this contract's scope. However, the Consultant is responsible for preparing the design of the renovation as described in Annex 3, and the design of a new laboratory according to international and local standard or regulation. |