

MILLENNIUM CHALLENGE ACCOUNT-MONGOLIA



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

Bidding Document **For the Wastewater Recycling Plant Design-Build**

ADDENDUM No 1
September 1, 2021

1. Name of the Procurement: **Wastewater Recycling Plant Design-Build**
2. Procurement Reference Number: **MCA-M/CF/WRA/W-01**
3. Invitation for Bids (IFB) Date: **July 26, 2021**

IFB SECTION	ORIGINAL TEXT	AMENDED AND SHOULD BE READ AS FOLLOWS
ITB 8.7 Section II Bid Data Sheet	<p>The Employer will schedule a proprietary meeting with any Bidder meeting the requirements below during the week commencing September 13, 2021.</p> <p>Any bidder who has requested a proprietary meeting shall submit an Executive Summary of proposed innovative concepts by:</p>	<p>The Employer will schedule a proprietary meeting with any Bidder meeting the requirements below during the week commencing September 20, 2021.</p> <p>Any bidder who has requested a proprietary meeting shall submit an Executive Summary of proposed innovative concepts by:</p> <p>10 am Ulaanbaatar time (UTC+8), Mongolia September 13, 2021, this being 7 weeks / 49 days from the release of the Bidding documents.</p>

	10 am Ulaanbaatar time (UTC+8), Mongolia September 06, 2021, this being 6 weeks / 42 days from the release of the Bidding documents.	
ITB 9.1 Section II Bid Data Sheet	<p>An addendum identifying rejected innovated concepts will be issued to all bidders by November 22, 2021, this being 9 weeks / 63 days from the release of the Bidding documents. This date has been selected to rapidly inform all Bidders of ideas which are not acceptable to reduce all Bidders' wasted efforts.</p> <p>An addendum outlining changes to the Employer's Requirements resulting from the Proprietary Meetings will be issued on November 22, 2021, this being 17 weeks / 119 days from the release of the Bidding documents.</p> <p>This date has been selected to provide benefit to Bidders who generate innovative ideas and to allow time for completion of Bids based on these ideas. The Employer will make modifications to the Employer's Requirements which are as general as possible to further protect the innovative ideas of Bidders.</p>	<p>An addendum identifying rejected innovated concepts will be issued to all bidders by October 4, 2021, this being 10 weeks / 70 days from the release of the Bidding documents. This date has been selected to rapidly inform all Bidders of ideas which are not acceptable to reduce all Bidders' wasted efforts.</p> <p>An addendum outlining changes to the Employer's Requirements resulting from the Proprietary Meetings will be issued on November 22, 2021, this being 17 weeks / 119 days from the release of the Bidding documents.</p> <p>This date has been selected to provide benefit to Bidders who generate innovative ideas and to allow time for completion of Bids based on these ideas. The Employer will make modifications to the Employer's Requirements which are as general as possible to further protect the innovative ideas of Bidders.</p>
ITB 38.1 Section II Bid Data Sheet	<p>Negotiations shall take place at:</p> <p>Millennium Challenge Account-Mongolia 5th floor, MPM Complex, UNESCO Street 28, Sukhbaatar District, Ulaanbaatar-14220, Mongolia</p>	<p>Subject to ITB Sub-Clause 37.1, the Employer shall award the Contract to the Bidder whose Bid has been determined to have the highest Combined Price and Schedule Score and is substantially responsive to this Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.</p> <p><i>Modifies 38.1 of the Section I</i></p>
ITB 42.2 Section II Bid Data Sheet	No Bid Data Sheet entry corresponding to ITB 42.2.	Failure of the successful Bidder to submit the above-mentioned Performance Security or to sign the Contract within twenty-eight (28) days of the receipt of the Letter of Acceptance shall constitute sufficient grounds for the annulment of the award and forfeiture of

		<p>the Bid Security. In that event the Employer may award the Contract to the next Bid with the second highest Combined Price and Schedule Score that is substantially responsive and whose Bidder is determined by the Employer to be qualified to perform the Contract satisfactorily</p> <p><i>Modifies 42.2 of the Section I</i></p>
<p>A2. Responsiveness Determination.</p> <p>Section III Qualification and Evaluation Criteria</p>	<p>1st Paragraph</p> <p>This review will be conducted to determine if the Bid is substantially responsive as explained in ITB Clause 31. A substantially responsive Bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission in accordance with ITB Sub-Clause 31.2. If a Bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Employer and may not be subsequently made responsive by correction of the material deviation, reservation, or omission. However, the Employer may request any Bidder to clarify its Bid according to the procedures set out in ITB Clause 28. The Employer may determine responsiveness of Bids, beginning with the Bid that is determined to be the lowest Evaluated Bid Price after the Price Review is conducted. At its sole discretion, the Employer may elect not to review higher priced Bids for responsiveness after a lower priced Bid is determined to be substantially responsive. Responsiveness determination is based upon a detailed technical review according to the details given below.</p>	<p>1st Paragraph</p> <p>This review will be conducted to determine if the Bid is substantially responsive as explained in ITB Clause 31. A substantially responsive Bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission in accordance with ITB Sub-Clause 31.2. If a Bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Employer and may not be subsequently made responsive by correction of the material deviation, reservation, or omission. However, the Employer may request any Bidder to clarify its Bid according to the procedures set out in ITB Clause 28. The Employer may determine responsiveness of Bids, beginning with the Bid that is determined to have the highest Combined Price and Schedule Score after the Price Review and Schedule Review are conducted. At its sole discretion, the Employer may elect not to review lower scoring Bids for responsiveness after a higher scoring Bid is determined to be substantially responsive. Responsiveness determination is based upon a detailed technical review according to the details given below.</p> <p>All other paragraphs in A2. Responsiveness Determination remain unchanged</p>
<p>B3. Determination of Combined Price and Schedule Scores</p>	<p><u><i>B3. Determination of Combined Price and Schedule Scores</i></u></p> <p>Bidder with the highest score is preferred.</p>	<p><u><i>B3. Determination of Combined Price and Schedule Scores</i></u></p> <p>Bidder with the highest score is preferred.</p>

<p>Section III Qualification and Evaluation Criteria</p>	<p>The formula for determining the score for combined Evaluated Bid Price and schedule of each Bidder (Bi) is calculated as following:</p> $B_i = C_i \times P\% + S_i \times T\%$ <p>where</p> <p>C_i is the score for Evaluated Bid Price for a Bidder when compared to all other Bidders' offers;</p> <p>S_i is the score for schedule a Bidder proposed when compared to all other Bidders' offers;</p> <p>P is the weight given to the Evaluated Bid Price. P = 87.5%;</p> <p>T is the weight given to the schedule proposed. T = 12.5%</p> <p>Evaluated Bid Price of all offers will be ranked. The lowest Evaluated Bid Price is given the maximum score of 87.5. The formula for determining the score for Evaluated Bid Price of a Bidder when compared with all other offers is calculated as following:</p> $C_i = C_L / C_m$ <p>where</p> <p>C_L is the lowest Evaluated Bid Price among all the Bidders;</p> <p>C_m is the Evaluated Bid Price offered by a Bidder.</p> <p>The estimated Time for Completion based on the Employer's Requirement is 1,245 calendar days. This is the longest Time for Completion allowed, and it is used as a</p>	<p>The formula for determining the score for combined Evaluated Bid Price and schedule of each Bidder (Bi) is calculated as following:</p> $B_i = C_i \times P\% + S_i \times T\%$ <p>where</p> <p>C_i is the score for the Evaluated Bid Price for a Bidder when compared to the lowest Evaluated Bid Price;</p> <p>S_i is the score for the Schedule a Bidder proposed when compared to the Employer's Requirement Time for Completion;</p> <p>P is the weight given to the Evaluated Bid Price. P = 87.5%;</p> <p>T is the weight given to the schedule proposed. T = 12.5%</p> <p>Evaluated Bid Price of all offers will be ranked. The lowest Evaluated Bid Price is given the maximum score of 87.5. The formula for determining the score for Evaluated Bid Price of a Bidder when compared with all other offers is calculated as following:</p> $C_i = C_L / C_m$ <p>where</p> <p>C_L is the lowest Evaluated Bid Price among all the Bidders;</p> <p>C_m is the Evaluated Bid Price offered by a Bidder.</p> <p>The estimated Time for Completion based on the Employer's Requirement is 1,245 calendar days. This is the longest Time for Completion allowed, and it is used as a baseline for comparison. Schedule improvement (S_m) resulted from Time for Completion proposed will be calculated for each Bidder's offer. Schedule improvement is calculated using the baseline of 1,245 days minus the Time for Completion proposed.</p> $S_m = 1,245 - \text{Time for Completion proposed by Bidder}$
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	<p>baseline for comparison. Schedule improvement (S_m) resulted from Time for Completion proposed will be calculated for each Bidder's offer. Schedule improvement is calculated using the baseline of 1,245 days minus the Time for Completion proposed.</p> <p>$S_m = 1,245 - \text{Time for Completion proposed by Bidder}$</p> <p>A schedule improvement of 180 days will get the maximum score of 12.5. A Bidder who proposes a schedule improvement more than 180 days schedule savings will get the maximum score of 12.5.</p> <p>The formula for determining the score for schedule of a Bidder when compared with all other offers is calculated as following:</p> <p>$S_i = S_m/180$</p>	<p>A schedule improvement of 180 days will get the maximum score of 12.5. A Bidder who proposes a schedule improvement more than 180 days schedule savings will get the maximum score of 12.5.</p> <p>The formula for determining the score for schedule of a Bidder when compared with all other offers is calculated as following:</p> <p>$S_i = S_m/180$</p> <p>If the Bidder with the highest score is determined to be ineligible, or their Bid is determined to be not substantially responsive or fails to satisfy the qualification requirements, then the scores will be recalculated with that Bid removed."</p>
IFB SECTION	AMENDED AND SHOULD BE READ AS FOLLOWS	
Qualification Tables Section III Qualification and Evaluation Criteria	<p>The "Qualification Tables" of Section III. Qualification and Evaluation Criteria is amended to modify the requirements on the experience of at least one member of a Joint Venture under the sub-factors: 15. Specific Design Experience in Key Activities and 16. Specific Construction Experience in Key Activities.</p> <p>All other "Qualification Tables", plus the Equipment and Key Personnel requirements contained in Section III. Qualification and Evaluation Criteria remain unchanged.</p> <p>THE AMENDED "QUALIFICATION TABLES" OF SECTION III. QUALIFICATION AND EVALUATION CRITERIA ARE INCLUDED IN ANNEX 1 OF THIS ADDENDUM AND SHALL BE TAKEN INTO CONSIDERATION BY BIDDERS DURING PREPARATION AND SUBMISSION OF THEIR BIDS.</p>	
Item 3 Link for Works Requirements	The following revisions are made to the Technical Specifications and Performance Requirements:	

**Section V
Employers
Requirements**

Bidders should be aware that the following Sections of the Technical Specifications are revised and modified as follows through the issuance of this Amendment 1 to the Bidding Document.

S No	Ref. Section of the ER	Modified to:
1	2.17.9 Disinfection and contact basins and backwash supply pumps Table 2 11 Disinfection Design Criteria	<i>Modified as follow:</i> Length, minimum: m 42 Width, minimum: m 20
2	2.2.1.3 Recycled Water Quality Requirements	<i>Add as a remark at end of the table 2-3:</i> Additional requirement: a) The Contractor shall measure the influent values for TDS, SO ₄ , Fe, Cu, oil and aluminum parameters as part of its Test on Completion of the WRP. The Contractor shall not increase the concentration of TDS, SO ₄ , Fe, Cu or aluminum in the WRP effluent compared to the influent during tests. The Contractor shall comply with the oil limit prescribed in Table 2-4 in all cases, as its treatment process should be capable of this. b) The Contractor is not responsible for treating heavy metals in its treatment process (at the Wastewater Recycling Plant). 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.
3	1.2 Schedule of Prices, item 1.06	Clarification on applicable requirements are in section 2.26, 2.27, and 2.28. For details, see redline additions and strikeout of texts in the Employer's Requirements.
4	2.2.1.3 Recycled Water Quality Requirements Table 2 4 Design Finished Water Quality Criteria for the WRP	Added COD of 30 mg/L or less for effluent quality
5	2.6.11.2 O&M Manual Submittals 2.6.11.4 Contents	Modifications are made for this section to clarify O&M manual submittal requirements and timing in relation to various milestones of the contract. For details, see redline additions and strikeout of texts in the Employer's Requirements.

	6	2.6.12 As-Built Drawing Standards	Modifications are made to clarify as-built drawings submittal timing. For details, see redline additions and strikeout of texts in the Employer's Requirements.
	7	2.25.8.6 Differential Pressure Measurement - Transmitter 2.25.8.7 Dissolved Oxygen Measurement - Transmitters	Update on tables 2-28 and 2-29
	8	2.25.10 Factory Testing for Instrumentation and Control	Modifications are made to clarify requirements during factory testing. For details, see redline additions and strikeout of texts in the Employer's Requirements.
	9	2.26 Plant Inspection, Testing, Commissioning and Trial Operation	Modification throughout the section 2.26 to clarify sequences and requirements for Test on Completion. For details, see redline additions and strikeout of texts in the Employer's Requirements.
	10	2.27 Specifications for Defect Notification Period	Modification throughout the section 2.27 to clarify requirements during Defect Notification Period. For details, see redline additions and strikeout of texts in the Employer's Requirements.
	11	2.28 Requirements for Training Employer Designated Staff	Change of section numbering. Modification throughout the section to clarify all training requirements. For details, see redline additions and strikeout of texts in the Employer's Requirements.
<p>Link for Updated Works Requirements: The complete set of documents that constitute the Employer's Requirements can be found here: https://www.dropbox.com/sh/uofx8syh48uxg7n/AAAUPVcMuThfNAimfbL3ZjeXa?dl=0</p> <p>NOTE: The link remains unchanged and the documents contained therein are amended.</p>			

ANNEX 1 TO ADDENDUM No 1

Section III: Qualification and Evaluation Criteria

Qualifications Tables

Documents Establishing the Qualifications of the Bidder

If applicable, the Bidder shall provide the information requested in the corresponding information sheets included in Section IV. Bid Submission Forms, to establish that the Bidder meets the requirements established below.

Subcontractors' qualifications shall not be used by the Bidder to qualify for the Works, except for those particular key activities specifically designated by the Employer under factor 13. *Specific Experience in Key Activities* in the Qualification table below – as being able to be met by a specialized subcontractor. If the Bidder proposes a specialized subcontractor to meet a Specific Experience in Key Activities so designated by the Employer, then that subcontractor's experience may be added to the qualifications of the Bidder for that designated experience requirement.

EXPERIENCE						
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All members combined	Each member	At least one member	
15. Specific Design Experience in Key Activities	For the above or other contracts executed during the period stipulated in 13 above, a minimum experience in the following key activities: 1, Must have 1 experience of	Must meet requirement Any of the enumerated	Must meet requirement	N/A	For each enumerated key activity, at least one member (or an identified specialized subcontractor)	Form EXP-5 If any of enumerated Key Activities are to be met by a specialized

EXPERIENCE						
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All members combined	Each member	At least one member	
	design of wastewater or water treatment plant in cold climate region with periods of freezing for at least 2 weeks of the year. 2. Must have 1 experience in water chemistry for corrosion/scaling control. 3. Must have 1 experience in design of wastewater recycling/reuse. 4. Must have 2 experiences in design of biological treatment process. 5. Must have 2 experiences in design of disinfection process.	Key Activities can be met by a specialized subcontractor			must demonstrate experience at a level of the required number or scope specified. Any of the enumerated Key Activities can be met by a specialized subcontractor.	subcontractor, Form EXP-5 must be completed for each so proposed subcontractor.
16. Specific Construction Experience in Key Activities	For the above or other contracts executed during the period stipulated in 14 above, a minimum experience in the following key activities: 1. Must have at least 15 years' experience in concrete structure construction. 2. Must have at least 2	For enumerated Key Activity 1 and 2, must meet requirement. For enumerated Key Activity 3, and 4, can be	Must meet requirement (but enumerated Key Activity 3 and/or 4 can be met by an identified specialized subcontractor)	N/A	For each enumerated key activity, at least one member (or for enumerated Key Activity 3 and/or 4, an identified specialized	Form EXP-6 If any of enumerated Key Activities are to be met by a specialized subcontractor, Form EXP-6 must

EXPERIENCE						
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All members combined	Each member	At least one member	
	experience in construction of water retaining concrete structures. 3. Must have at least 2 construction experiences in completing industrial processing facilities in similar size or nature in cold climate region with periods of freezing lasting at least 2 weeks of the year. 4. Commissioning and startup performed by the Bidder of wastewater, water, or industrial plants with biological, mechanical and electrical equipment with a complexity similar to that of the Works.	met by a specialized subcontractor.			subcontractor) must demonstrate experience at a level of the required number or scope specified. For enumerated Key Activity 1 and 2, a JV member must meet requirement. For enumerated Key Activity 3 and 4, the requirement can be met by a JV member or a specialized subcontractor.	be completed for each so proposed subcontractor.