

CB No: MCA-M/CF/DWA/W/03

**Bidding Document for
Construction of Groundwater Wells and Conveyance (CCP-1)**

**ANSWERS TO CLARIFICATION QUESTIONS – ISSUE No. 1 (Questions 1-9)
August 16, 2021**

Question 1:	Is CP-1 Remeasure Contract?																																																																													
Answer 1:	Yes. CCP-1 is a Re-measurable Contract.																																																																													
Question 2:	In the BoQ there is no item for access roads. As you have to relocate pipe Jacking equipment 21 times and after Inspection access is not suitable - will there be Addendum Item in BoQ?																																																																													
Answer 2:	Please see BoQ line items 66, 67, 68, 78,79,80 and item 204 to 223.																																																																													
Question 3:	Can the steel sleeve be replaced by concrete pipe?																																																																													
Answer 3:	Metal pipes shall not be replaced by concrete pipes. It’s against the Detailed design. Bidders are required to strictly follow the Technical Specifications and Design Requirements.																																																																													
Question 4:	Due to the above expected rainfall this year the river measurement is wider than in BoQ, which measurement will be used for payment - BoQ or Jacked length?																																																																													
Answer 4:	Please refer to the Answer to Question 1. This means that the jacked length will be used for payment.																																																																													
Question 5:	What is the outer diameter of the conveyance Pipe 900/800?																																																																													
Answer 5:	<div>Please see the table for Ductile Iron Pipe Properties.</div> <table><tr><th colspan="7">Table 1: Ductile Iron Pipe Properties per BS EN 545 – 2010</th></tr><tr><th>Nominal Diameter (mm)</th><th>EN545 Pipe Class</th><th>Wall Thickness (mm)</th><th>Internal Diameter (mm)</th><th>Maximum Allowable Operating Pressure (bar)</th><th>Collapse Pressure (bar)</th><th>Pressure Wave Speed (ft/s)</th></tr><tr><td>300</td><td>C40</td><td>4.6</td><td>302.80</td><td>41.8</td><td>8.2</td><td>1162</td></tr><tr><td>400</td><td>C30</td><td>4.8</td><td>405.40</td><td>32.6</td><td>3.9</td><td>1102</td></tr><tr><td>450</td><td>C30</td><td>5.1</td><td>455.80</td><td>30.8</td><td>3.2</td><td>1085</td></tr><tr><td>500</td><td>C30</td><td>5.6</td><td>506.80</td><td>30.4</td><td>2.8</td><td>1078</td></tr><tr><td>600</td><td>C30</td><td>6.7</td><td>607.60</td><td>30.3</td><td>2.6</td><td>1070</td></tr><tr><td>700</td><td>C25</td><td>6.8</td><td>710.40</td><td>26.3</td><td>1.7</td><td>1033</td></tr><tr><td>800</td><td>C25</td><td>7.5</td><td>813.00</td><td>25.4</td><td>1.5</td><td>1019</td></tr><tr><td>900</td><td>C25</td><td>8.4</td><td>914.20</td><td>25.3</td><td>1.4</td><td>1015</td></tr><tr><td>1200</td><td>C25</td><td>11.1</td><td>1218.80</td><td>25.0</td><td>1.3</td><td>1004</td></tr></table>	Table 1: Ductile Iron Pipe Properties per BS EN 545 – 2010							Nominal Diameter (mm)	EN545 Pipe Class	Wall Thickness (mm)	Internal Diameter (mm)	Maximum Allowable Operating Pressure (bar)	Collapse Pressure (bar)	Pressure Wave Speed (ft/s)	300	C40	4.6	302.80	41.8	8.2	1162	400	C30	4.8	405.40	32.6	3.9	1102	450	C30	5.1	455.80	30.8	3.2	1085	500	C30	5.6	506.80	30.4	2.8	1078	600	C30	6.7	607.60	30.3	2.6	1070	700	C25	6.8	710.40	26.3	1.7	1033	800	C25	7.5	813.00	25.4	1.5	1019	900	C25	8.4	914.20	25.3	1.4	1015	1200	C25	11.1	1218.80	25.0	1.3	1004
Table 1: Ductile Iron Pipe Properties per BS EN 545 – 2010																																																																														
Nominal Diameter (mm)	EN545 Pipe Class	Wall Thickness (mm)	Internal Diameter (mm)	Maximum Allowable Operating Pressure (bar)	Collapse Pressure (bar)	Pressure Wave Speed (ft/s)																																																																								
300	C40	4.6	302.80	41.8	8.2	1162																																																																								
400	C30	4.8	405.40	32.6	3.9	1102																																																																								
450	C30	5.1	455.80	30.8	3.2	1085																																																																								
500	C30	5.6	506.80	30.4	2.8	1078																																																																								
600	C30	6.7	607.60	30.3	2.6	1070																																																																								
700	C25	6.8	710.40	26.3	1.7	1033																																																																								
800	C25	7.5	813.00	25.4	1.5	1019																																																																								
900	C25	8.4	914.20	25.3	1.4	1015																																																																								
1200	C25	11.1	1218.80	25.0	1.3	1004																																																																								
Question 6:	Confirm the Diameter of the HDPE Brine Pipe that requires Jacking.																																																																													
Answer 6:	HDPE Brine Pipe Diameter is OD500mm. Please see the Drawing 400-C-104.																																																																													
Question 7:	There is no item in BoQ for fencing around shafts to keep livestock out.																																																																													
Answer 7:	Please see the BoQ line item 72, 73, 81, and 82.																																																																													

Question 8:	What is the requirement for a Subcontractor to carry out Pipe Jacking works that is not a specialized a Subcontractor or in the JV named in Bid?
Answer 8:	Non-specialized Subcontractors shall be approved by the Engineer after Contract signing.
Question 9:	Can you clarify payment for the Sub-Contractor - are they paid when main contractor is paid?
Answer 9:	<p>Particular Condition of Contract 5.2 amends the Fédération Internationale des Ingénieurs-Conseils (“FIDIC”) General Condition by adding the following at the end: <i>“(iii) be paid only if and when the Contractor has received from the Employer payments for sums due under the Subcontract referred to under Sub-Clause 5.3 [Payments to Nominated Subcontractors].”</i></p> <p>FIDIC General Condition of Contract 5.4 remains unchanged.</p> <p>The Bidder may obtain the General Conditions of Contract from the Employer by submitting a request to the Procurement Agent at PA-Mongolia@charleskendall.com cc to procurement@mca-mongolia.gov.mn.</p>