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REF NO: 054/2024/PMID/MCWAP2/RFB NOTICE 35

10 JUNE 2024

ABSTRACTION WORKS, PUMPING STATIONS, RESERVOIRS, PIPELINE, RELATED MULTIDISCIPLINE WORKS, ANCILLARY WORKS

Dear Bidder,

TCTA acknowledges receipt of the requests for clarification listed in the attached table. The response to each request for clarification is provided in the attached table.

Yours faithfully

Digitally signed by
Azwianewi Nelwamondo
Date: 2024.06.10 15:56:30
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Azwi Nelwamondo
Senior Manager: Procurement

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NO.	REQUESTS FOR CLARIFICATION	TCTA RESPONSES
1	In drawing 2B-C7-506, Section G7-G7 shows the details of the left bank retaining wall, marked with GROUP IMPROVENT (JET GROUTING), but this is not shown in the drawing. Is there a Jet Grouting designed below the retaining wall? On the upper left side of the retaining wall, there is a RAISED Backfill, but the construction of the retaining wall requires excavation and backfilling of the foundation below. Is this part of the work quantity included in the quoted bill of quantities? What are the requirements for backfill materials? Same questions for the lower part excavation and backfilling of retaining walls of Right Flank, Please Clarify.	Refer to Drawing No 2B-C7-506 Rev T2
2	In the C311 General P2V4 of the bidding documents, there are some CMS in the ANNEXURE 1/KEY METHOD STATIONS that we cannot understand their content and specific requirements. Please provide an explanation: CMS 79 Electric Leak Location Survey (ELLS). CMS 85 Structural condition surveys. CMS 88 As instructed by the Engineer.	Only the method statement listed in Volume 1 – Tendering Procedure will be evaluated as part of the RFB. These are CPM V1 – CPM V7 The Bidder must refer to Part C3.1 – Specification Section 1 related to the Method Statement requirements to be met. Each referenced activity shall be clearly linked to the Method Statements. Amongst other, Specification 1 Clause 1.10.1 stipulates the Method Statement format and structural requirements .
3	In T2.2.2 Technical Schedules P2V2N, the parameters of low head pump station bridge: 10/2 tons, high head pump station bridge parameters: 15/2 tons. And in Technical Document C3131, the parameters of low head pumping station bridge: 12.5/2 tons, high head pumping station bridge: 12.5/2 tons. Please clarify which parameter should prevail?	The correct gantry crane capacities are as follows: • High lift pumping station: 15/2 tons. To be confirmed when final pump and motor weights area available • Low Lift Pumping Station: We recommend a 12.5/2 tons. To be confirmed when final pump and motor weights area available
4	In PART H1.10: Ancilliary Works of BOQ, Please clarify the locations of INSTRUMENTATION HUT(Repeater A), INSTRUMENTATION HUT(Repeater B) and INSTRUMENTATION HUT(Repeater C).	• Repeater 1A: Approx. pipeline chainage: 33 730m • Repeater 2A: Approx. pipeline chainage: 48 200m • Repeater 3A: Approx. pipeline chainage: 63 270m

NO.	REQUESTS FOR CLARIFICATION	TCTA RESPONSES
		• All Repeaters are approximately within 50m of the pipeline.
5	In PART H1.9: Borrow Pits and Spoil Areas of BOQ, Please clarify the locations of Borrow Pit H, Borrow Pit I, Spoil Site 5, Spoil Site M, Spoil Site E and Spoil 3.	Borrow Pits H and I were discarded for technical reasons and will not be available for use by the Contractor. Spoil sites 3, 5, E and M are located along the Gravity Main and their locations are reflected on the KMZ file and the Locality Plans previously issued to Bidders. Please note that Technical Memorandum No 35 is provided to Bidders as supplementary information.
6	Kindly request the CAD drawings for the pump stations (or Revit models)	We cannot issue the soft copies of drawings at this stage due to security as the site will be a national key point. Once the contract has been awarded, the Contractor can sign a non-disclosure agreement and the files can be made available to the successful tenderer.
7	Kindly request the system curves provided in the tender specification in excel format.	The Bidders are urged to use the data / curves provided in Part C3.1, Specification Section 30.
8	Corrosion protection: Section 37 of the specifications, Table 37.10.12.1 - Above ground Pipes and Specials, defines the lining system 170 as “Two pack Epoxy” and the coating system 174 as “Two pack Epoxy plus topcoat of recoatable Polyurethane”. Reference to drawings 2B-C5-002 & 003, the following Pipes and Specials (items) defined the coating system as 170 and lining system as 174 (assume it is swopped around): - LLS1.1 - LLD1.1, LLD1.2, LLD1.4, LLD1.35 Please confirm coating and lining systems for above listed items?	All linings for the Low Lift Pump Station are **System 257** All linings for the High Lift Pump Station are **System 170** All coatings for both pump stations except for the following are **System 174**: • LLS1.1, LLS 1.6, LLD 1.11, HLD 1.20
9	Corrosion protection: Further to the above query, Section 37 of the specifications, Table 37.10.12.2 (Encased in concrete) and 37.10.12.5 (In Water) was not adopted when the coating and lining systems were specified on drawings 2B-C5-002 & 003 and 2E-C5-002. Example, the coating system for item LLS1.6 should have been 184 and not 174 and the coating system for item LLS1.1 should have been 243-246 and not 170. Kindly confirm all coating and lining specifications for pipes and specials on drawings 2B-C5-002 & 003 and 2E-C5-002?	The following specials which have puddle flanges are coated with **System 184:** • LLS 1.1, LLS 1.6, LLD 1.11, HLD 1.20 N.B. system 184 is used in lieu of 243 – 246 for LLS 1.1

NO.	REQUESTS FOR CLARIFICATION	TCTA RESPONSES
10	Corrosion protection: Section 37 of the specifications, Table 37.10.8.1 – Valves and Flowmeters, defines the lining and coating systems. Depending on the selected system (for valves and flowmeters), the system number will range between 030 and 042. However, with reference to drawings 2B-C5-002 & 003 and 2E-C5-002 & 003, the coating and lining systems specified is either system 170 or 174. Please confirm if the coating and lining systems specified on the drawings are correct? In addition, the coating and lining systems are for some of the items swopped around (see example, item LLD1.9 and LLD1.17 for a similar valve). Kindly confirm the coating and lining systems on drawings 2B-C5-002 & 003 and 2E-C5-002 & 003 for all valves (NRV, Wedge gate, RSV, and Air valves).	• All valves for the Low Lift Pump Station require abrasion resistant lining **System 257**. • The coating for all valves for the Low Lift Pump Station is **System 038**. • The lining for all valves for the High Lift Pump Station is **System 030** • The coating for all valves for the High Lift Pump Station is **System 035/036**.
11	Corrosion protection: Section 37 of the specifications, Table 37.10.13 (Couplings, Flange adaptors) was not adopted when the coating and lining systems for the dismantling joints were specified on drawings 2B-C5-002 & 003 and 2E-C5-002 & 003. Kindly confirm the coating and lining systems for dismantling joints on drawings 2B-C5-002 & 003 and 2E-C5-002?	• The lining and coating system for all Couplings and Flange Adaptors for both pump stations are **System 260/261** • Colour coding to match pump station pipework by overcoating as per **System 174** where applicable.
12	Please provide specific models and parameters for various types of Light fittings in the BOQ list.	Refer to drawing number 2A-E1-001 Rev T2 for light fitting schedule specification.

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	Light fittings Item | Describe | Unit | Qty 1 | Type A | No | 40 2 | Type A1 | No | 21 3 | Type A2 | No | 27 4 | Type A3 | No | 19 5 | Type B | No | 157 6 | Type B1 | No | 18 7 | Type C | No | 3 8 | Type D | No | 24 9 | Type E | No | 8 10 | Type F1 | No | 22 11 | Type H1 | No | 8 12 | Type I | No | 30 13 | Type J | No | 10 14 | Type K | No | 16 15 | Type L | No | 30 16 | Type L1 | No | 30 17 | Type M | No | 42 18 | Type M pole | No | 42 19 | Type O | No | 14 20 | Type O1 | No | 5 21 | Type P | No | 5 22 | Type R | No | 30 23 | Type S | No | 8 24 | Type T | No | 4	
13	CMS 85 Structural condition surveys；CMS 88 As instructed by the Engineer. Please provide details of what information bidders need to prepare and what is included.	Refer to Item 2.