

REF NO: 054/2024/PMID/MCWAP2/RFB NOTICE 27

06 May 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

Azwi Nelwamondo

Senior Manager: Supply Chain Management

NO	REQUESTS FOR CLARIFICATION	TCTA RESPONSES
1	Please kindly advise if a subcontractor can be an international company with the required technical expertise?	Yes
2	Please confirm that the RFQ refers to the execution of jet grouting treatments and GEWI anchors in the area called "Abstraction" as per drawing 2B-C7-500 ONLY. Because specs also mention about: soil/rock interface, consolidation and fissures/cavities injection but we could not find the activities neither on drawings nor in BoQ.	There will be extensive earthworks and ground improvement work required at the Vlieëpoort Weir, as indicated on the various drawings; 2B-C7-500-T1 through to 2B-C7-510-T1. GEWI anchors will be required at the Low Lift Pumping Station, as indicated on Drawing No 2B-C7-507-T1
3	Please clarify what structures belong to Part B1 ("Diversion Weir") and what to part B2 ("Diversion Works and Low Lift Pumping Station")	B1 - Retaining wall left flank, fishway, weir and downstream apron B2 – all the rest
4	In the BoQ drainage holes are include. Please clarify their location, function and characteristics.	The areas where such drainage holes may have to be provided will be as agreed on site between the Contractor and the Engineer, unless otherwise directed by the Engineer on site during construction.
5	Please specify where the different types of drilling activities mentioned in the BoQ (e.g. diamond, coring, cased, etc.) are applied.	For the drilling of jet grouting test holes

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6	Please specify what kind of parameters (drilling, grouting, diameter, inclination, etc.) are to be registered during the jet grouting activity and in which % of the total number of columns the recording has to be activated.	The parameters to be recorded is stated in Vol 3, Part C3.1 Specifications, Section 18 Drilling and Grouting, Clause 18.11, as well as any other parameters required in terms of Specification Section 18.
7	Please clarify what items of the BoQ are related to the Trial Section activity.	The trial section location shall be within the treatment area and the proposed location shall be agreed with the Engineer. Please refer to Vol 3, Part C3.1 Specifications, Section 19 Drilling and Grouting, Clause 18.9.5.1. It will be paid under the normal items for drilling and grouting
8	The Permeability target criteria mentioned in the Technical Specification ($k \leq 1 \text{ UL} - 10^{-7} \text{ m/s}$), is quite difficult to achieve with a jet grouting treatment. Please provide further information about the target value to be assumed.	Target value $k \leq 10^{-7} \text{ m/s}$
9	The "Tap Hammer Test" is not adequate for a jet grouting massive treatment, in order to evaluate its homogeneity and continuity. Alternative method to be adopted can be Tomographic seismic Crosshole.	Part C3.1 – Specification, Drilling and Grouting, Cl 18.9.5.2(d) is accordingly amended in addendum #12.
10	In par. "18.5.2.5 Jet Grout Cores" of Technical Specs, it is mentioned that "Cores shall be taken from at least 10% of the jet grouted columns" and several tests shall be conducted on cores. Which BoQ item reflects this activity?	Part C3.1 – Specification, Drilling and Grouting, Cl 18.5.2.5 refers. The first sentence is accordingly amended in addendum #12.
11	Please provide coring surveys information (core log with pictures and grain size distribution) related to the executed borehole located in the "Abstraction Works" area.	Information related to the geotechnical information, core drilling, etc can be found in Vol 3, Part C4.2 Consolidated Record of Geotech Info.

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12	<p>Please refer to the comments from a pipe supplier, listed hereunder:</p> <p>"One thing that pops up is reference to various system numbers for the coating and lining systems. These references do not form part of the particular spec other than in table 37.10.12.4 and in the case of the Glass flake Epoxy only in the BoQ:</p> <table border="0" data-bbox="188 558 1281 893"> <tr> <td>Solvent Free Epoxy</td> <td>"System 220"</td> </tr> <tr> <td>GF Epoxy</td> <td>"System 258"</td> </tr> <tr> <td>MDPE (Sintakote)</td> <td>"System 224"</td> </tr> <tr> <td>3LPE</td> <td>"System 228"</td> </tr> <tr> <td>PM Bitumen</td> <td>"System 229A"</td> </tr> <tr> <td>Rigid PU</td> <td>"System 229B"</td> </tr> </table> <p>Please can we get hold of the source document? Or if it's in the downloads point us in the right direction."</p>	Solvent Free Epoxy	"System 220"	GF Epoxy	"System 258"	MDPE (Sintakote)	"System 224"	3LPE	"System 228"	PM Bitumen	"System 229A"	Rigid PU	"System 229B"	<p>Volume 3 Specification Section 37 Painting and Corrosion Protection</p> <p>System 220: See section 37.18 System 258: See section 37.18 System 224: See section 37.27 System 228: See section 37.31 System 229A: See section 37.30 System 229B: See section 37.32</p>
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