

**Shire Valley Transformation Program-1 (SVTP-1).Construction of Main Canal 1 (MC1) and Main Canal 2 (MC2)**

21.09.2020

		Questionnaires / Query Raised	Responses/Answers
		<p>SUB: Request for Clarification for the standard specifications for Canal works</p> <p>We are writing this letter to your good office to request for the standard specification for concrete works. The BOQ items 1.3 structural works of Siphone, indicate Con'C (B180) and Con'C (B240) . We want to know what is the Con'C (B180) and Con'C (B240). We have check the specification from the bid documents. However there is not such description. Which standard specification can we find this standard? Could you share the soft copy to us?</p>	<p>B160 = 160kgf/cm2 = 16Mpa                      B180 = 180kgf/cm2 = 18Mpa                      B210 = 210kgf/cm2 = 21Mpa                      B240 = 240kgf/cm2 = 24Mpa</p>
		<p>1. Does the engineering performance documents need to be traslated into English, in case of the project located at the non-English-speaking countries? Is there any requirement for the translation organization? Shall the translated documents to be notarized?</p> <p>2. In case of joint venture, shall we need to inform the employer before submission of Bid document?</p> <p>3. Could you please offer the form of certificate authorization for bidding, in case of joint venture?</p>	<p>Yes, The language of the Bid is English, all documenmts need to be in English. The Project is in Malawi. The Official business language for Malawi is English. Please refer to Instruction to bidders 10.1. The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer, shall be written in the language specified in the BDS. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the BDS, in which case, for purposes of interpretation of the Bid, such translation shall govern.</p> <p>Instruction to Bidders 11.2 states that "bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement.</p> <p>There is no specific form for this.</p>

	<p>4. Could you indicate that who can be the representative of the company, in case of joint venture?</p>	<p>The decision of who will be the representative of the joint venture lies with the joint venture partners, the employer shall be informed by the submission of the joint venture partners and indicated in the Power of Attorney</p>
	<p>5. According to the SVIP V-III Specification_WB, item 1.4.5 paragraph two: "Subject to the requirements of these Specifications the Contractor shall prepare the detailed design and Working Drawing necessary to execute the works. The calculations and Working Drawings shall be submitted to the Engineer for approval prior to commencement of the relevant sections of the works on site." Shall the contractor need to offer new design at the submission of bid documents? Or it means that after the tender awarded, the successful contractor need to revise the design and working drawing according to the requirements of the Specifications?</p>	<p>There will be a requirement for the contractor to prepare working drawings or shop drawings for certain items. The contractor needs some design capacity.</p>
	<b>Questionnaires / Query Raised</b>	<b>Responses/Ansswers</b>
	<p>1. 3.5 Contractor's Representative and Key Personnel of Section III. Evaluation and Qualification Criteria, states that bidders should provide details of the Electrical Engineer (including SCADA expert), does it mean that the Electrical Engineer should be a SCADA expert, or the bidders should provide details of another SCADA expert with Bachelor's degree in Electrical Engineering?</p>	<p>Both are possible depend on the contractor's situation.</p>
	<p>2. In the BOQ, it states that the reinforcing steel is SD30, does it mean the standard of reinforcing steel is TIS? Please clarify the meaning of SD30?</p>	<p>SD30 = 300kg/cm2 = 30 Mpa</p>
	<p>3. In the BOQ, it states that the Con'C should be B160, B180, B210, B240, please clarify the meaning of B160, B180, B210, B240?</p>	<p>See the answer above.</p>
	<p>4. The scope of the works requires some detailed investigation. Additionally, due to Covid-19, works have been severely impacted. Will the Employer consider extending the deadline of bid submission?</p>	<p>There are no works that are severely affected by covid yet on this contract except mode of Bid issuance and bid submission. Covid-related issues will continue to be monitored during contract implementation and if there are delays not caused by the contractor, the impact of these will be discussed with the client. Arrangements for bid issuance and submissions are as indicated on the website and in the bid document in light of covid 19. Currently the Bid Submission still remains as indicated in the Bid Document. Should there be need to extend Bid Submission date, this would be communicated to all interested biidders through the website of the employer.</p>
	<b>Questionnaires / Query Raised</b>	<b>Responses/Ansswers</b>

1. Calculation of Quantities of Main Canal 2 is wrong as per the formula, kindly clarified.

Type of Main Canal 2

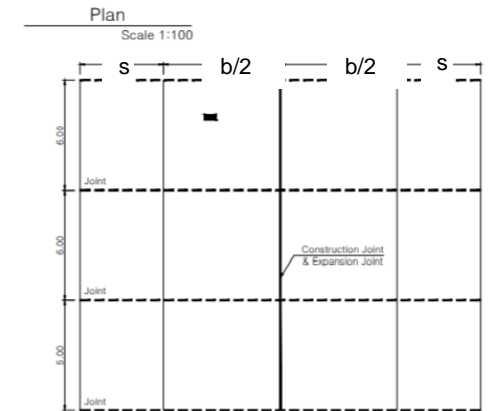
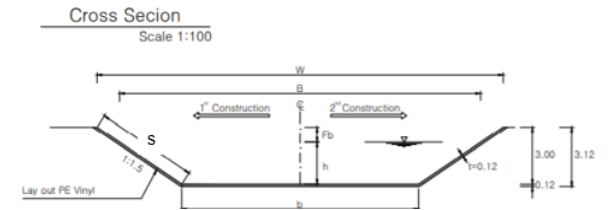
Type	h (m)	b (m)	B (m)	W (m)	Fb (m)
2-A	1.9	9.1	14.8	17.2	0.8
2-B	1.9	8.9	14.6	17.0	0.8
2-C	1.9	8.8	14.5	16.9	0.8
2-D	1.9	8.7	14.4	16.8	0.8
2-E	1.9	8.6	14.3	16.7	0.8
2-F	1.9	8.1	13.8	16.2	0.8
2-G	1.9	7.5	13.2	15.6	0.8

Table of Concrete Lining Matrial (/1m)

Type	B-180 (m <sup>2</sup> )	Wire Mesh (m <sup>2</sup> )	PE Vinyl (m <sup>2</sup> )
2-A	2.42	22.07	24.07
2-B	2.40	21.67	23.67
2-C	2.38	21.37	23.37
2-D	2.37	20.37	22.27
2-E	2.36	20.17	22.17
2-F	2.30	19.97	21.97
2-G	2.23	19.67	21.67

$B-180 = (5.535 \times 2 + b) \times 0.12 \times 1.0$   
 $Wire\ Mesh = (5.535 \times 2 + b - 0.5 \times 4) \times 1.0$   
 $PE\ Vinyl = (5.535 \times 2 + b) \times 1.0$

Some errors are required corrected as below



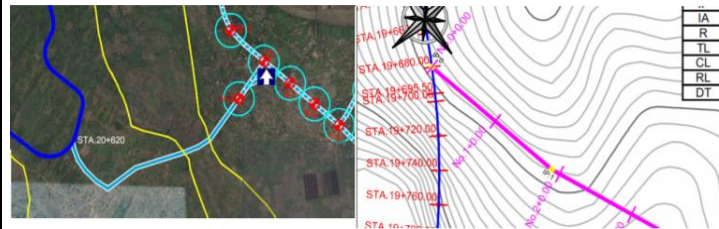
Construction joint interval : 60 - 90m

$B-180 = (s \times 2 + b) \times 0.12 \times 1.0$

$Wire\ mesh = (s \times 2 + b - 0.5 \times 4) \times 1.0$

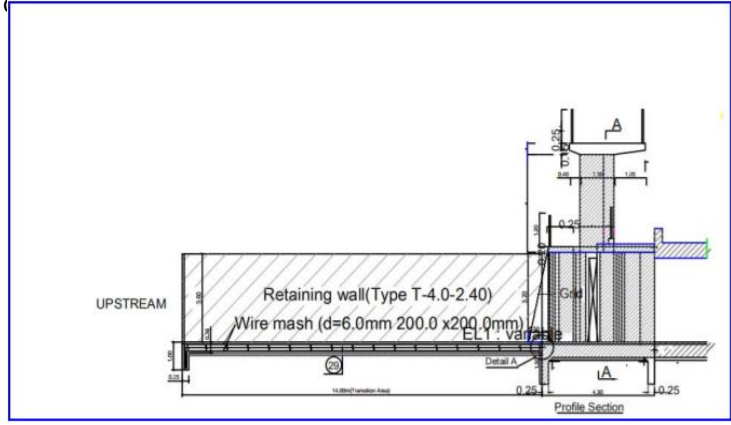
$PE\ Vinyl = (s \times 2 + b) \times 1.0$

2. Starting Point of water supply pipe on shown MC1 STA.20+620 as below, however, the starting point of inlet water is STA.19+660, which one is correct?



STA.19+660 is the right one.

3. The description of the Wire Mesh in scope of work is “#5,150\*150”(“04 scope-works-mc-1-up-tp-lengwe”), but the diameter shown D=6mm in BOQ (“07 BOQ\_SVTP-2\_AfDB-Blank” Page 2), and the drawing listed as “D6,20\*20”, which one is correct? Kindly clarify.



Lining Canal			
Lining Machine (Con'c B180)	124,268	m <sup>3</sup>	
Wire Mesh (#5 150*150)	884,874	m <sup>2</sup>	

Wire mesh for lining canal: d=5.0mm 150\*150  
Wire mesh for structural works: d=6.0mm 200\*200

4. The unit of the wire mesh is “m<sup>3</sup>” in the BOQ (“07 BOQ\_SVTP-2\_AfDB-Blank” Page 2), which is not appropriate, kindly clarify.

1.3.	Structural Work of Siphone			
1	Wire Mash D=6mm	m <sup>3</sup>	1,303	

Error! Should be changed to m2

5. In the technical requirements of the contract, the description of the length of Main Canal is inconsistent. Please clarify.

Major Works	
3.1 Earth Work, L=45 km	<p>1.2.2. Scope of Works</p> <ul style="list-style-type: none"> <li>(a) Earth Work, L=51 km</li> <li>(b) Canal Structures                             <ul style="list-style-type: none"> <li>- Lining, L=43 km</li> <li>- Siphon, 3 Nos., L=1795 m</li> </ul> </li> <li>(c) water supply intake and treatment plan for Chikwawa district</li> </ul>

L=45km is the right one.

6. The scope of work indicated there are inverted siphons on MC2, but there is only one siphons shown in the drawing (“SVTP-2 Final(20180723)\_color(1)”Page 7), Kindly clarify.

**Scope of Works**

The scope of works under this bidding document covers the construction of Main Canal 1 from Station 6+000 up to 32+788 (Bifurcation point), and part of MC2 from Station 0+000 (bifurcation point) up to Station 18+024, (Lengwe national park). Major works will include construction of two inverted siphons on MC1, three inverted siphons on MC2, Bridges, box culverts, Canal Crossing structures, Concrete lined canal, and wire fencing around populated areas.

2 siphons in the MC1, and 1 in the MC2.

Canal <sup>c1</sup>	No. <sup>c2</sup>	Chainage <sup>c3</sup>	Length (m) <sup>c4</sup>	Size (m) <sup>c5</sup>	Remark <sup>c6</sup>
MC1 <sup>c1</sup>	1 <sup>c2</sup>	STA 6+900 ~ STA 7+120 <sup>c3</sup>	220 <sup>c4</sup>	8.0 x 3.0 <sup>c5</sup>	#4 Siphon <sup>c6</sup>
	2 <sup>c2</sup>	STA 8+960 ~ STA 9+400 <sup>c3</sup>	440 <sup>c4</sup>	8.0 x 3.0 <sup>c5</sup>	#5 Siphon <sup>c6</sup>
MC2 <sup>c1</sup>	1 <sup>c2</sup>	STA 5+360 ~ STA 6+495 <sup>c3</sup>	1,135 <sup>c4</sup>	6.2 x 2.3 <sup>c5</sup>	#1 Siphon <sup>c6</sup>
Total <sup>c3</sup>			1,795 <sup>c4</sup>		

		<b>Questionnaires / Query Raised</b>	<b>Responses/Ansswers</b>
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		<p>1. Key Equipment Type and Characteristics</p> <p>Item 2- Backhoe 0.7 m<sup>3</sup> / 1.0m<sup>3</sup> - In some counties, backhoe named as TLB/JCB, Considering the quantity of bulk excavation, TLB/JCB might not the type of key equipment required. The backhoe required, does it mean the Excavators fitted with buckets with capability of 0.7 m<sup>3</sup> and 1.0 m<sup>3</sup> ? Please confirm.</p> <p>Item 6 – Vibrator Compactor 0.7 m<sup>3</sup> ? Please clarify what does the “0.7 m<sup>3</sup>” mean?</p> <p>Item 20 – Caterpillar Crane 10 ton (0.29 m<sup>3</sup>). Please clarify the “0.29 m<sup>3</sup>” means ? To our understanding, any type of Plant with the same capability or bigger should be acceptable.</p>	<p>- Excavators fitted with buckets with capability of 0.7 m<sup>3</sup> and 1.0 m<sup>3</sup></p> <p>- Vibrator compactor which has backhoe of 0.7m<sup>3</sup> bucket. This machine shall be used for compaction of canal slope. The backhoe part will support the compactor on the slope of embankment.</p> <p>- Crane 10 ton with bucket size 0.29m<sup>3</sup></p> <p>- Equipment with more than the same capability can be brought in after consultation with the supervisor during construction.</p>
		<p>2. BoQ Descriptions</p> <p>Concrete works – Con` c B160 / B180 / B240 etc.– Could you clarify the “B160 , B180,/ B240 etc. “ Refer to 3.3.3 volume III: Specification, Possible to convert the description such as C15/C25/C30/C35 ?</p> <p>Reinforcing steel(SD30) – Please clarify “SD30” refers to standards ? does this item cover all sizes of reinforcement?</p> <p>Item 1.3.1 - Wire Mash D=6mm; the unit given is m<sup>3</sup> , does it should be m<sup>2</sup> ?</p> <p>Item 2.2.9 / 2.2.10- Construction Joint and Expansion joint- The unit given is m<sup>2</sup>, is is not should measure by linear meter?</p> <p>Item 1.1.9 – lined sod , measured by m<sup>2</sup>. Could you explain a bit about the description, what is the mean “sod” , under the canal cross-sections unit rate given is meter instead of m<sup>2</sup>. Under the structural works, there are items such as plate form, scaffoldings, supporting post , all measured by m<sup>2</sup>. Could you explain how to measure the scaffoldings and supporting post ? Possible to provide a sketch as an example and clearly indicated.</p>	<p>- B160 = 160kgf/cm<sup>2</sup> = 16Mpa</p> <p>B180 = 180kgf/cm<sup>2</sup> = 18Mpa</p> <p>B240 = 240kgf/cm<sup>2</sup> = 24Mpa</p> <p>- Unit of wire mesh should be changed to m<sup>2</sup> (error!)</p> <p>- Unit of joint is m<sup>2</sup> considering the thickness of concrete</p> <p>- Lined sod shall be placed to protect erosion of canal embankment, and count the quantity as the area of placing.</p> <p>- Unit of supporting post should be changed to m<sup>3</sup> (error!)</p>
		<p>3. Scope of works We noted there are some drawings related to electrical and SCADA works, however we could not identify such items in the BoQ provided. If such works under this contract, please clarify the electrical /SCADA works fall under which item (a)</p>	<p>SCADA is out of work scope of this bid. It shall be included in the next bid.</p>
		<b>Questionnaires / Query Raised</b>	<b>Responses/Ansswers</b>
		<p>* Please can you supply the co-ordinates of the boreholes shown on the long section drawings. Also we need to know what co-ordinate system you are using.</p>	<p>Refer to the geotechnical report</p>
		<p>* Please can you supply us with the Digital Terrain Model (DTM) of the canal routes giving the existing ground and the design information?</p>	<p>Could be provided at the moment of commencement of works</p>
		<b>Questionnaires / Query Raised</b>	<b>Responses/Ansswers</b>

1. Please clarify whether Form 4.2(c) be used as one of the criteria for bid evaluation and should this Form be filled and submitted, since it says N/A in the table?

This form shall not be filled.

44 Section III. Evaluation and Qualification Criteria (without prequalification)

Eligibility and Qualification Criteria		Compliance Requirements				Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)		Submission Requirements	
				All Parties Combined	Each Member		One Member
4.2 (b)		For the above and any other contracts completed and under implementation as prime contractor, joint venture member, management contractor or sub-contractor <sup>10</sup> on or after the first day of the calendar year during the period stipulated in 4.2 (a) above, a minimum construction experience in the following key activities successfully completed <sup>11</sup> : <b>Earthworks 2 million m<sup>3</sup>, Excavation 45,000 m<sup>3</sup>, Concrete Works 65,000 m<sup>3</sup> Annually</b>	Must meet requirements	Must meet requirements	N/A	Must meet the following requirements for the key activities listed below <b>Earthworks 1.5 million m<sup>3</sup>, Excavation 20,000 m<sup>3</sup>, Concrete Works 45,000 m<sup>3</sup> annually</b>	Form EXP – 4.2 (b)
4.2 (c)	<b>Specific Experience in managing ES aspects</b>	For the contracts in 4.2 (a) above and/or any other contracts [substantially completed and under implementation] as prime contractor, joint venture member, or Subcontractor between <b>1st January 2015</b> and Application submission deadline, experience in managing ES risks and impacts in the following aspects: <b>Implementation of ESMP and ES in an at least 2 Projects of similar nature.</b>  (a) Provide Compliance in the implementation of site – specific in environmental and social management activities	N/A	N/A	N/A	N/A	Form EXP – 4.2 (c)

**Questionnaires / Query Raised**

**Responses/Answers**

Requesting you to please check and let us know if highway projects of the required value can go under similar requirements specified under section 4.1 and if the quantities from highway project can be accepted as mentioned in Section 4.2 (b).

Similar projects refer to physical size, complexity, methods/technology or other characteristics of the project. Quantities of various key activities refer to quantities executed in previous contracts for those specific items as indicated under 4.2b