

# GEORGE MUNICIPALITY



**CIDB DOCUMENT FOR TENDER NO: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER  
INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A  
PERIOD OF THREE (3) YEARS**

ENQUIRIES: Randal van Staden  
YORK STREET  
GEORGE  
(044) 801 9358

**ISSUED BY:**  
THE CITY COUNCIL  
MUNICIPALITY OF GEORGE  
P O BOX 19  
GEORGE, 6530

## SUMMARY FOR TENDER OPENING PURPOSES

NAME OF BIDDER: .....

CENTRAL SUPPLIER DATABASE NO.: MAAA .....

### PORTIONS TENDERED ON (MARK WITH X):

Landscaping, Grass Cutting and Site Cleaning	<input type="checkbox"/>	Minor Civil Works	<input type="checkbox"/>
Sewer Suction and Related Services	<input type="checkbox"/>	Mechanical and Electrical Services	<input type="checkbox"/>

### PREFERENCES CLAIMED FOR:

B-BBEE Status Level of Contributor:	
Preference Points Claimed:	

**B-BBEE certificates submitted with the tender document MUST be VALID ORIGINAL B-BBEE CERTIFICATES or VALID CERTIFIED COPIES OF THE B-BBEE CERTIFICATES**

**TENDER CLOSES AT 12H00 ON MONDAY, 1 MARCH 2021**

For official use.
<b>Signatures of SCM Officials at Tender Opening</b>
1.
2.

## BIDDER CONTACT DETAILS

This information shall be used for any correspondence or contact with the bidder.

Please indicate whether you want to receive any correspondence via e-mail or send to your postal address by registered mail.

Name of Bidding Company: .....	<b>Mark choice of correspon dence with X</b>
Postal Address: ..... ..... ..... ..... Postal Code: .....	
E-mail Address: .....	
Telephone Number: .....	
Cellular Number: .....	
Facsimile Number: .....	

# GEORGE MUNICIPALITY

## TENDER No. T/ING/012/2020

### TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS

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#### GENERAL TENDER INFORMATION

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TENDER ADVERTISED : 28 January 2021

#### ESTIMATED CIDB CONTRACTOR GRADING DESIGNATION

- Landscaping, Grass Cutting and Site Cleaning : N/A
- Sewer Suction and Related Services : N/A
- Minor Civil Works : 2CE or higher
- Mechanical and Electrical Services : 4 ME or higher

#### COMPULSORY SITE VISIT/CLARIFICATION MEETINGS

**No compulsory briefing session will be held, but Mr Randal van Staden can be contacted for further information and an addendum will be issued if necessary, five (5) working days before the tender closing date.**

#### VENUE FOR SITE VISIT/CLARIFICATION MEETING

**Not Applicable**

CLOSING DATE : 1 March 2021

CLOSING TIME : 12H00

LOCATION OF TENDER BOX : **Tender Box** at the George Municipality, on the First Floor, Directorate: Financial Services, Supply Chain Management Unit, Civic Centre, York Street, George.

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF  
WATER AND WASTEWATER INFRASTRUCTURE:  
APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A  
PERIOD OF THREE (3) YEARS**

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**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

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AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF  
VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3)  
YEARS**

**The Tender (Part T)**

**PART T1 Tender Procedures**

- T1.1 Tender Notice and Invitation to Tender
- T1.2 Tender Data
- T1.3 Tender Data – MBD Returnable Forms

**PART T2 Returnable Documents (All documents / schedules are returnable)**

- T2.1 List of Returnable Schedules Required for Tender Evaluation and Returnable Schedules
- T2.2 Other Documents Required for Tender Evaluation Purposes
- T2.3 Returnable Schedules That Will be Incorporated in the Contract

## GEORGE MUNICIPALITY

## DIRECTORATE: CIVIL ENGINEERING SERVICES

TENDER NUMBER: T/ING/012/2020

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER  
AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF  
VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3)  
YEARS**

## Tender Notice and Invitation to Tender (T1.1)

Tenders word hiermee ingewag vir: **OPKNAP EN INSTANDHOUDINGSWERK VAN WATER EN RIOOL INFRASTRUKTUUR: DIE AANSTEL VAN VERSKEIE AD-HOC KONTRAKTEURS VIR DIE TYDPERK VAN DRIE (3) JAAR.**

Voltooide tenders, gebind in 'n lêer en verseël in 'n koevert, duidelik gemerk:

**Tender Nr.: T/ING/012/2020**, moet voor of op **Maandag, 1 Maart 2021** om 12:00 in die tender bus by die George Munisipaliteit, Eerste Vloer, Direkoraat: Finansiële Dienste, Voorsieningskanaaleenheid, Burgersentrum, Yorkstraat, George geplaas word. Geen tenders sal toegelaat word om na 12:00 in die tender bus geplaas te word nie. Tenders sal om 12:05 dieselfde dag in die Komiteekamer oopgemaak word. Laat of ongemerkte tenders sal nie oorweeg word nie. Geen tenders per faks of e-pos sal aanvaar word nie.

Tenderaars moet by die CIDB geregistreer en moet voldoen aan die minimum graderingsvlak soos onder gespesifiseer:

**Tuindienste, grassny en terrein skoonmaak**

- Nie van Toepassing;

**Rioolsuig en verwante dienste**

- Nie van Toepassing;

**Klein siviele werke**

- 2CE of hoër;

**Meganiese en elektriese dienste**

- 4ME of hoër.

Geen verpligte inligtingsvergadering sal gehou word nie, maar Mnr Randal van Staden kan gekontak word vir verdere inligting en 'n addendum sal uitgereik word, indien nodig, vyf (5) werksdae voor die tender sluitingsdatum.

Tender dokumente is slegs in hardekopie formaat verkrygbaar teen 'n nie-terugbetaalbare deposito van **R231-00** by die Voorsieningskanaalbestuurseenheid op die 1ste Vloer, Burgersentrum, Yorkstraat, George. Die tender dokument moet n mininum van tien (10) werksdae voor die tender sluitingsdatum afgehaal word.

Tenders are hereby invited for: **MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS.**

Completed tenders, bound in a file and sealed in an envelope, clearly marked:

**Tender No.: T/ING/012/2020** must be placed in the tender box at the George Municipality on the First Floor, Directorate: Financial Services, Supply Chain Management Unit, Civic Centre, York Street, George by no later than 12:00 on **Monday, 1 March 2021**. Tenders are not allowed to be placed in the tender box after 12:00. Tenders will be opened on the same day in the Committee Room at 12:05. Late or unmarked tenders will not be considered. No tenders per fax or e-mail will be accepted.

Bidders must be registered with the CIDB and have the required minimum CIDB grading designation specified as follows:

**Landscaping, Grass Cutting and Site Cleaning**

- Not Applicable;

**Sewer Suction and Related Services**

- Not Applicable;

**Minor Civil Works**

- 2CE or higher;

**Mechanical and Electrical Services**

- 4 ME or higher.

**No compulsory briefing session will be held, but Mr Randal van Staden can be contacted for further information and an addendum will be issued if necessary, five (5) working days before the tender closing date.**

Tender documents in hard copy format are available at a non-refundable deposit of **R231-00** each from the Supply Chain Management Unit, 1<sup>st</sup> Floor, Civic Centre, York Street, George. The Tender documents must be collected a minimum of ten (10) working days before the tender closing date.

Fase 1: Voorafbepaalde kriteria:

Slegs tenderaars wat die minimum punte behaal in fase 1, sal verder vir evaluering in fase 2 oorweeg word.

Fase 2: Tenders sal ge-evalueer en toegeken word in terme van die Wet op die Raamwerk vir Voorkeurverkrygingsbeleid (Wet 5 van 2000) Regulasies 2017, asook George Munisipaliteit se Voorsieningskanaalbestuursbeleid, waar 80 punte ten opsigte van die prys en 20 punte ten opsigte van B-BBEE status toegeken sal word.

Alle tenderaars moet voldoen aan die Plaaslike Produksie en Inhoud en moet die MBD6.2 vorm, sowel as Aanhangsels C, D en E in die tender vir die volgende produkte voltooi:

<u>Beskrywing van dienste, werke of goedere</u>	<u>Vasgestelde minimum drumpel</u>
Groot Diameter Spiraal Gedompelde Booggesweide Staal Oordra Pype, Pyp Passtukke en Toebehore	100 %
Elektriese Kabel Produkte – Alle Kables	90%
Pompe, MV Motors en Geassosieërde toebehore – Alle pompe	70 %
Staal Produkte en Komponente vir Konstruksie	100 %
Klep Produkte en Aktueerders – Alle Kleppe	70 %

Tenders wat nie aan hierdie vereistes voldoen nie, sal nie oorweeg word vir evaluering nie.

Vir verdere inligting, kontak Mnr Randal van Staden by (044) 801 9358.

Die Munisipaliteit behou die reg voor om enige versoek vir 'n tender terug te trek en/of te her-adverteer of enige tender te verwerp of gedeeltelik te aanvaar. Die Munisipaliteit is nie daartoe gebind om die laagste of enige tender te aanvaar nie.

'n "TCS PIN" vir tenderaars se belasting nakoming inligting moet ingesluit wees by die tender dokument.

Dit sal van die suksesvolle tenderaar verwag word om op die Sentrale Verskaffersdatabasis (SVD) te registreer.

**MUNISIPALE BESTUURDER  
GEORGE MUNISIPALITEIT  
GEORGE, 6530**

Stage 1: Pre-Qualification

Only tenderers scoring the minimum points for stage 1 will be further considered for evaluation in stage 2.

Stage 2: Tenders will be evaluated and adjudicated in terms of the Preferential Procurement Policy Framework Act (Act 5 of 2000) Regulations 2017 and the George Municipality's Supply Chain Management Policy, where 80 points will be scored for price and 20 points for B-BBEE status.

All tenderers must comply with Local Production and Content and complete the MBD6.2 form, Annexures C, D and E in the tender for the following products:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
Large Bore Spiral Submerged Arc Welded Steel Conveyance Pipes, Pipe Fittings and Specials	100 %
Electrical Cable Products – All Cables	90%
Pumps, MV Motors and Associated Accessories – All Pumps	70 %
Steel Products and Components for Construction	100 %
Valve Products and Actuators – All Valves	70 %

Tenders that does not comply with this requirement will not be considered for evaluation.

For more information, contact Mr Randal van Staden at (044) 801 9358.

The Municipality reserves the right to withdraw any invitation to tender and/or to readvertise or to reject any tender or to accept a part of it. The Municipality is not bound to accept the lowest or any tender.

A TCS PIN for bidders' tax compliance information must be submitted with the tender document.

It will be required from the successful bidder to register on the Central Supplier Database (CSD).

**MUNICIPAL MANAGER  
GEORGE MUNICIPALITY  
GEORGE, 6530**

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

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**Tender Data (T1.2)**

<b>Clause number</b>	<p>The conditions of tender are the Standard Conditions of Tender as contained in Annex F of Board Notice 136 of 2015 in Government Gazette No. 38960 of 10 July 2015, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement (see <a href="http://www.cidb.org.za">www.cidb.org.za</a>). The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.</p> <p>The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender:</p>
<b>F.1</b>	<b>General</b>
F1.1.1	The Employer is the George Municipality, represented by the Director: Civil Engineering Services.
F1.1.2	<p>The parties agree that this tender and its acceptance shall also be subject to the terms and conditions contained in the Employer's Supply Chain Management Policy ('SCM Policy').</p> <p>Abuse of the supply chain management system is not permitted and may result in actions as set out in the SCM Policy.</p>
F.1.2	<b>Tender Documents</b>
	<p>The following documents form part of this tender:</p> <p><b>The Tender</b></p> <p><b>Part T1: Tender Procedures</b></p> <p>T1.1 Tender notice and invitation to tender</p> <p>T1.2 Tender data</p> <p>T1.3 Tender data – MBD returnable schedule</p> <p><b>Part T2 Returnable Documents</b></p> <p>T2.1 Returnable schedules required for tender evaluation</p> <p>T2.2 Other documents required for tender evaluation purposes</p> <p>T2.3. Returnable schedules that will be incorporated in the contract</p> <p><b>The Contract</b></p> <p><b>Part C1: Agreement and contract data</b></p> <p>C1.1 Form of offer and acceptance</p> <p>C1.2 Contract data</p> <p>C1.3 Objections and Complainants form</p> <p>C1.4 Form of Professional Indemnity Insurance</p> <p><b>Part C2: Pricing data</b></p> <p>C2.1 Pricing instructions</p> <p>C2.2 Schedule of Prices</p> <p><b>Part C3: Scope of Works</b></p> <p>C3.1 Scope of works</p> <p>Part C4 PPPFA Requirements</p>

	Part C5 Health and Safety Specifications Part C6 Drawings Annexures
F.1.4	<b>Communication and employer's agent:</b> The employer's agent is: Name: Mr Randal van Staden (Project Manager) Address: Department of Civil Engineering Services, c/o York and Market Streets, George. Tel: (044) 801 9358
F.1.6	<b>Procurement Procedures</b>
F1.6.1	<b>General</b> <i>Add the following:</i> For the purposes of this tender, the work area is within the boundary of the George municipal area including the towns of Uniondale and Haarlem. The Employer intends to appoint up to a maximum of four (4) service providers, (one per category), for the Scope of Works as described, on an Ad Hoc Basis, but reserves the right to appoint fewer tenderers, or not to appoint any at all.  Categories:  <ol style="list-style-type: none"> <li>1. <b>Landscaping, Grass Cutting and Site Cleaning</b></li> <li>2. <b>Sewer Suction and Related Services</b></li> <li>3. <b>Minor Civil Works</b></li> <li>4. <b>Mechanical and Electrical Services</b></li> </ol> Contractors, once appointed and subject to operational requirements, will be invited to execute the Works by means of Works Projects on an ad-hoc (as and when required) basis in the area. The appointed Contractor's services will be used supplementary to Municipal technical services and does not entitle the appointed Contractor to work.  The framework contract period shall be for a period of <b>three (3) years</b> from the commencement date of the contract, as stated in Part C1.2 Contract Data.
F.1.6.2	<b>Competitive Negotiation Procedure</b>
	A competitive negotiation procedure will not be followed.
F.1.6.3	<b>Proposal procedure using the two-stage system</b>
	A two-stage system will not be followed.
F.1.6.4	<b>Objections, complaints, queries and disputes / appeals in terms of Section 62 of the Systems Act / Access to court</b>
F.1.6.4.1	<b>Disputes, objections, complaints and queries</b>  In terms of Regulations 49 and 50 of the Local Government: Municipal Finance Management Act, 56 of 2003 – Municipal Supply Chain Management Regulations (Board Notice 868 of 2005): a).....Persons aggrieved by decisions or actions taken by the George Municipality in the implementation of its supply chain management system, may lodge within 14 days of the decision or action, a written objection or complaint or query or dispute against the decision or action.
F.1.6.4.2	<b>Appeals</b>
	a).....In terms of Section 62 of the Local Government: Municipal Systems Act, 32 of 2000 a person whose rights are affected by a decision taken by the George Municipality, may appeal against that decision by giving written notice of the appeal and reasons to the George Municipality within 21 days of the date of the notification of the decision.

	<p>b).....An appeal must contain the following:</p> <ol style="list-style-type: none"> <li>a. Must be in writing</li> <li>b. It must set out the reasons for the appeal</li> <li>c. It must state in which way the Appellant's rights were affected by the decision</li> <li>d. It must state the remedy sought; and</li> <li>e. It must be accompanied with a copy of the notification advising the person of the decision</li> </ol>
F.1.6.4.3	<b>Right to approach the courts and rights in terms of Promotion of Administrative Justice Act, 3 of 2000 and Promotion of Access to Information Act, 2 of 2000.</b>
	The sub-clauses above do not influence any affected person's rights to approach the High Court at any time or its rights in terms of the Promotion of Administrative Justice Act and Promotion of Access to Information Act.
F.1.6.4.4	All requests referring to sub clauses F.1.6.4.1 and F.1.6.4.2 must be submitted in writing to: <b>The Municipal Manager:</b> George Municipality, 3 <sup>rd</sup> Floor, Civic Centre, York Street, George <b>Via hand delivery at:</b> 3 <sup>rd</sup> Floor, Civic Centre, 71 York Street, George, 6529
F.1.6.4.5	All requests referring to clause F.1.6.4.3 regarding access to information or reasons must be submitted in writing to: <b>The Municipal Manager:</b> Legal Department, 1 <sup>st</sup> Floor, George Municipality, Civic Centre, York Street, George <b>Via hand delivery at:</b> 1 <sup>st</sup> Floor, Civic Centre, 71 York Street, George, 6529
<b>F.2</b>	<b>Tenderer's obligations</b>
F.2.1	<b>Eligibility</b>
F.2.1.1	<p>(a) Only tenderers who satisfy the following criteria are eligible to submit tenders:</p> <p>(b) Quality control practices and procedures which ensure compliance with stated employer's requirements.</p> <p>(c) Availability of resources.</p> <p>(d) Capacity to mobilize own and sub-contracting resources.</p> <p>(e) Availability of skills to manage and perform the contract (assigned personnel).</p> <p>(f) Quality achievements on previous contracts of a similar nature.</p> <p>(g) Previous work of a similar nature.</p> <p>(h) Achieve minimum score for functionality</p> <p>(i) Special Eligibility per Category:</p> <p><b>a. ....Landscaping, Grass Cutting and Site Cleaning:</b></p> <ol style="list-style-type: none"> <li>i. None</li> </ol> <p><b>b. ....Sewer Suction and Related Services:</b></p> <ol style="list-style-type: none"> <li>i. None</li> </ol> <p><b>c. ....Minor Civil Works:</b></p> <ol style="list-style-type: none"> <li>i. None</li> </ol> <p><b>d. ....Mechanical and Electrical Services:</b></p> <ol style="list-style-type: none"> <li>i. Has a Permanent Local Office and Workshop within George, meeting the minimum requirement as set out in Form 2.1.3B. and Part C3D</li> <li>ii. Should the Tenderer not have a Permanent Local Office/Workshop in George at the time of tender, they must undertake to establish a fully functional workshop (fully operational for the duration of the contract) meeting the requirement, within 30 days after appointment notification (should they be appointed):</li> <li>iii. Certified company documentation must be provided, to substantiate the above requirements, included as part of returnable schedules (Form 2.1.3B)</li> </ol>

F.2.1.3.1	<b>Construction Industry Development Board (CIDB) Registration</b>															
	<p>Only those tenders submitted by tenderers who are registered, or are capable of being registered, with an active status with the CIDB prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations, for a class of construction work as indicated below, are eligible to have their tenders evaluated:</p> <ul style="list-style-type: none"> <li>•.... <b>Landscaping, Grass Cutting and Site Clearing</b> : <b>N/A</b></li> <li>•.... <b>Sewer Suction and Related Services</b> : <b>N/A</b></li> <li>•.... <b>Minor Civil Works</b> : <b>2CE higher</b></li> <li>•.... <b>Mechanical and Electrical Services</b> : <b>4ME or higher</b></li> </ul>															
	<p>Joint Ventures are eligible to submit tenders provided that:</p> <p>(a) Every member of the Joint Venture is registered with an active status with the CIDB;</p> <p>(b) The lead partner must be registered in the relevant class of construction work; and</p> <p>(c) The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a class of construction work of value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations.</p>															
F.2.1.3.2	<b>Minimum score for functionality</b>															
	<p>To be considered for a contract in terms of this tender, tenderers must achieve the minimum score for functionality as stated below, per selected category.</p> <p>The description of the functionality criteria and the maximum possible score for each is shown in Form 2.1.3 of the Returnable Schedules. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria. Tenderers that fail to achieve the minimum score for functionality will be declared as non-responsive.</p> <p>Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture (appended to Schedule 3, Part T2.2: Returnable Schedules).</p> <p>Tenderers shall ensure that the relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information <b>IN THIS TENDER SUBMISSION</b> could result in the tenderer not being able to achieve the specified minimum scoring.</p> <p>Summary of minimum requirements:</p> <p><b>Landscaping, Grass Cutting and Site Cleaning: 70%</b></p> <table border="1"> <thead> <tr> <th>Item</th> <th>Description of Criteria</th> <th>Maximum Points Available</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>Tenderer's experience</td> <td>50</td> </tr> <tr> <td>2</td> <td>Staff and personnel</td> <td>50</td> </tr> <tr> <td></td> <td>Total</td> <td>100</td> </tr> </tbody> </table>	Item	Description of Criteria	Maximum Points Available				1	Tenderer's experience	50	2	Staff and personnel	50		Total	100
Item	Description of Criteria	Maximum Points Available														
1	Tenderer's experience	50														
2	Staff and personnel	50														
	Total	100														

<b>Sewer Suction and Related Services: 70%</b>		
<b>Item</b>	<b>Description of Criteria</b>	<b>Maximum Points Available</b>
1	Tenderer's experience	50
2	Staff and personnel	50
	Total	100
<b>Minor Civil Works: 70%</b>		
<b>Item</b>	<b>Description of Criteria</b>	<b>Maximum Points Available</b>
1	Tenderer's experience	50
2	Staff and personnel	50
	Total	100
<b>Mechanical and Electrical Services: 70%</b>		
<b>Item</b>	<b>Description of Criteria</b>	<b>Maximum Points Available</b>
1	Tenderer's experience	50
2	Staff and personnel	50
	Total	100
<b>F.2.1.3.3</b>	<b>Local Content</b>	
F.2.1.3.3.1	<p>The supplier shall study the terms and conditions as stated in the <b>Local Content Declaration</b> returnable schedule.</p> <p><b>Note: All certificates and forms shall be signed to submit a valid tender. However, since this is a tender for rates, the list of equipment in the Schedule of Prices are provisional. Once an order is placed by the Employer, for a piece of equipment that fall within the categories below, the appointed Tenderer shall submit the applicable forms for the specific equipment in the order. However, at tender stage, the Tenderer shall submit an exemption letter issued by the DTI for all equipment that the Tenderer offer that does not comply with the local content requirements due to availability.</b></p>	
F.2.1.3.3.2	<p>Only tenders with locally produced or locally manufactured raw material or input will be considered. If the raw material or input to be used for a specific item is not available locally, bidders should obtain written authorization from the Department of Trade and Industry (DTI) (Chief Director: Industrial Procurement, tel. 012 394 3927 and fax 012 394 4927) should there be a need to import such raw material or input.</p>	
F.2.1.3.3.3	<p>A copy of the authorization letter must be submitted together with the bid document at the closing date and time of the bid.</p>	

F.2.1.3.3.4	The Employer is obliged and must ensure that contracts for <b>the designated sector</b> are awarded at prices that are market related considering, among others, benchmark prices designated by the DTI for the sector, value for money and economics of scale. Where appropriate, prices may be negotiated with preferred bidders in accordance with provisions for Negotiation with Preferred Bidders as set out in the George Municipality's SCM Policy.
F.2.1.3.3.5	A bid will be declared non-responsive / disqualified if the <b>Local Content Declaration</b> returnable schedule as well as the authorization letter referred to above (if applicable) are not submitted as part of the bid documentation at the closing date and time of the bid.
F.2.1.3.3.6	For further information relating to the local production and content legislation, bidders may refer to website <a href="http://www.thedti.gov.za/industrial_development/ip.jsp">http://www.thedti.gov.za/industrial_development/ip.jsp</a> , or may contact the Chief Director: Industrial Procurement at the DTI at telephone number (012) 394 3927 and fax (012) 394 4927, the Director: Fleet Procurement, Ms Cathrine Matidza, at telephone number (012) 394 3927 and e-mail <a href="mailto:CMatidza@thedti.gov.za">CMatidza@thedti.gov.za</a> , or the DTI Contact Centre no 0861 843384.
F.2.7	No compulsory briefing session will be held, but Mr Randal van Staden can be contacted for further information and an addendum will be issued if necessary, five (5) working days before the tender closing date.
F.2.8	<b>Seek Clarification</b>
	The tenderer warrants that it has: <ul style="list-style-type: none"> <li>a) inspected the Specifications and read and fully understood the Conditions of Contract.</li> <li>b) read and fully understood the whole text of the Specifications and Price Schedule and thoroughly acquainted itself with the nature of the goods proposed and generally of all matters which may influence the Contract.</li> <li>c) visited the site(s) where delivery of the proposed works will take place, carefully examined existing conditions, the means of access to the site(s), the conditions under which the delivery is to be made, and acquainted itself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials, plant and equipment to and from the site(s) and made the necessary provisions for any additional costs involved thereby.</li> <li>d) requested the Employer to clarify the requirements contained in the Specifications and Price Schedule, the exact meaning or interpretation of which is not clearly intelligible to the tenderer.</li> <li>e) received any notices to the tender documents which have been issued in accordance with the Employer's SCM Policy.</li> </ul>
	The Employer will therefore not be liable for the payment of any extra costs resulting from any claim submitted by the tenderer arising from any alleged ambiguity or uncertainty contained in the tender document.
F.2.12	No alternative Tender offer will be considered.
F.2.13.1	Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works, services or supply identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.  The respective sector(s) that the tender wish to tender for must be ticked on the front page and the respective Form of Offer must be completed in full and signed.
F.2.13.2	Return all returnable documents to the employer after completing them in their entirety in non-erasable black ink.  Downloaded documents shall be clearly printed on white A4 paper, completed to suit in non-erasable black ink, then bound using a typical double punch hole system in a lever arch file or

	similar suitable folder. All supporting documents can be bound and filed in the prescribed order, using dividers if possible.
F.2.13.3	Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.
F.2.13.4	Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint venture shall state which of the signatories is the lead partner whom the employer shall hold liable for the tender offer.
F.2.13.5	Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and/or "COPY" if applicable. Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.  The Employer's address for delivery of tender offers and identification details are: George Municipality, First Floor, Directorate: Financial Services, Supply Chain Management Unit, Civic Centre, York Street, George (location of tender box). The identification details are: Tender number T/ING/012/2020.
F.2.13.6	A two-envelope procurement will <b>not</b> be followed.
F.2.13.8	Accept that the employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.
F.2.13.9	Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.
F.2.13.10	By signing the offer part of C1.1 Form of Offer and Acceptance the tenderer declares that all information provided in the tender submission is true and correct.
F.2.15	<b>Closing time</b>
F.2.15.1	Ensure that the employer received the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.  The closing time for submission of tender offers is at <b>12H00 on Monday, 1 March 2021.</b>
F.2.16	<b>Tender offer validity</b>
F.2.16.1	The Tender offer validity period is <b>12 weeks (84 days).</b>
F.2.17	<b>Clarification of tender offer after submission</b>
	Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.
F.2.18	<b>Provide other material</b>
F.2.18.1	Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), referencing arrangements, or samples of materials, considered necessary by the employer for a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

F.2.18.4	<b>Compliance with Occupational Health and Safety Act, 85 of 1993</b>
	<p>Tenderers are to note the requirements of the Occupational Health and Safety Act, 85 of 1993 and the Construction Regulations, 2014 issued in terms of Section 43 of the Act. The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.</p> <p>In this regard, the Tenderer shall submit with his tender a draft Health and Safety Plan in respect of the Works in sufficient detail to demonstrate the necessary competencies and resources to perform the construction work all in accordance with the Act, Regulations and Health and Safety Specification in the Scope of Work.</p>
F.2.19	<b>Inspections, tests and analysis</b>
	Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.
F.2.23	<b>Certificates</b>
	Include in the tender submission or provide the employer with any certificates as stated in the tender data.
F.3.2	<b>Issue Addenda</b>
	<p>Delete the words "<i>three days</i>" from the first sentence and replace with: "<i>five working days where possible</i>"</p> <p>Add the following to F.3.2 at the end of the paragraph: Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.</p>
F.3.4	<b>Opening of tender submissions</b>
F.3.4.1	The time and location for opening of the tender offers is: <b>12h00 on Monday, 1 March 2021</b> . The Tender Box at the George Municipality is on the First Floor, Directorate: Financial Services, Supply Chain Management Unit, Civic Centre, York Street, George.
F.3.10	<b>Clarification of a tender offer</b>
	The Employer may, after the closing date, request additional information or clarification from tenderer, in writing on any matter affecting the evaluation of the tender offer or that could give rise to ambiguity in a contract arising from the tender offer.
F.3.11	<b>Evaluation of tender offers</b>
F.3.11.3	<p>Method 2: Functionality, Price and Preference</p> <p>In the case of functionality, price and preference</p> <ol style="list-style-type: none"> <li>1) Score the functionality, rejecting all tender offers that fail to achieve the minimum number of points for functionality as stated in the Tender Data.</li> <li>2) No tender must be regarded as an acceptable tender if it fails to achieve the minimum qualifying score for functionality as indicated in the tender invitation.</li> <li>3) Tenders that have achieved the minimum qualification score for functionality must be evaluated further in terms of the preference points system prescribed in paragraphs 4 and 5 below.</li> </ol> <p>This is a rates-only tender, and therefore does not have a tendered total amount as part of the Form of Offer which would be used for the price evaluation. The Employer will create a list of items from the BoQ, as example projects, of which the sum will be used as a total for a Price Offer for evaluation and comparison purposes for each tenderer. The list of items, from an</p>

	<p>acceptable tender offer, that calculates to the lowest total will be used as the comparative price of lowest acceptable tender or offer (Pmin).</p> <p><b>The 80/20 preference point system for acquisition of services, works or goods up to Rand value of R50 million.</b></p>																				
	<p>4) (a)(i) The following formula must be used to calculate the points for price in respect of tenders (including price quotation) with a rand value equal to, or above R30,000 and up to Rand value of R50,000,000 (all applicable taxes included):</p> $P_s = 80 \left[ 1 - \frac{P_t - P_{\min}}{P_{\min}} \right]$ <p>Where  Ps = Points scored for comparative price of tender or offer under consideration;  Pt = Comparative price of tender or offer under consideration; and  Pmin = Comparative price of lowest acceptable tender or offer.</p> <p>(4)(b) Subject to subparagraph (4)(c), points must be awarded to a tender for attaining the B-BBEE status level of contribution in accordance with the table below:</p> <table border="1"> <thead> <tr> <th>B-BBEE Status Level of Contributor</th> <th>80/20 Number of Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20</td> </tr> <tr> <td>2</td> <td>18</td> </tr> <tr> <td>3</td> <td>14</td> </tr> <tr> <td>4</td> <td>12</td> </tr> <tr> <td>5</td> <td>8</td> </tr> <tr> <td>6</td> <td>6</td> </tr> <tr> <td>7</td> <td>4</td> </tr> <tr> <td>8</td> <td>2</td> </tr> <tr> <td>Non-compliant contributor</td> <td>0</td> </tr> </tbody> </table> <p>(4)(c) A maximum of 20 points may be allocated in accordance with subparagraph (4)(b).  (4)(d) The points scored by tender in respect of B-BBEE contribution contemplated in subparagraph (4)(b) must be added to the points scored for price as calculated in accordance with subparagraph (4)(a).  (4)(e) Subject to paragraph 4.3.8 the contract must be awarded to the tender who scores the highest total number of points.</p> <p>The 90/10 preference points system for acquisition of services, works or goods with a Rand value above R50 million.</p> <p>(5)(a) The following formula must be used to calculate the points for price in respect of tenders with a Rand value above R50,000,000 (all applicable taxes included):</p> $P_s = 90 \left[ 1 - \frac{P_t - P_{\min}}{P_{\min}} \right]$ <p>Where  Ps = Points scored for comparative price of tender or offer under consideration;  Pt = Comparative price of tender or offer under consideration; and  Pmin = Comparative price of lowest acceptable tender or offer.</p> <p>(5)(b) Subject to subparagraph (5)(c), points must be awarded to a tender for attaining the B-BBEE status level of contribution in accordance with the table below:</p>	B-BBEE Status Level of Contributor	80/20 Number of Points	1	20	2	18	3	14	4	12	5	8	6	6	7	4	8	2	Non-compliant contributor	0
B-BBEE Status Level of Contributor	80/20 Number of Points																				
1	20																				
2	18																				
3	14																				
4	12																				
5	8																				
6	6																				
7	4																				
8	2																				
Non-compliant contributor	0																				

		<b>B-BBEE Status Level of Contributor</b>	<b>90/10 Number of Points</b>
		1	10
		2	9
		3	6
		4	5
		5	4
		6	3
		7	2
		8	1
		Non-compliant contributor	0
<p>(5)(c) A maximum of 10 points may be allocated in accordance with subparagraph (5)(b).</p> <p>(5)(d) The points scored by tender in respect of B-BBEE contribution contemplated in subparagraph (5)(b) must be added to the points scored for price as calculated in accordance with subparagraph (5)(a).</p> <p>(5)(e) Subject to paragraph 4.3.8 the contract must be awarded to the tender who scores the highest total number of points.</p>			
F.3.11.6	<b>Decimal places</b>		
Score price, preference and functionality, as relevant, to two decimal places.			
F.3.13	<p>Tender offers will only be accepted if:</p> <ul style="list-style-type: none"> <li>(a) the Tenderer has in his or her possession an original valid Tax Clearance Certificate issued or the PIN provided by the South African Revenue Services or has made arrangements to meet outstanding tax obligations;</li> <li>(b) the Tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;</li> <li>(c) the Tenderer submits a letter of intent from an approved insurer undertaking to provide the Performance Bond to the format included in Part T2.2 of the procurement document.</li> <li>(d) the Tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation.</li> <li>(e) the Tenderer has not abused the Employer's Supply Chain Management System.</li> <li>(f) the tender offer is signed by a person authorized to sign on behalf of the Tenderer.</li> <li>(g) the Tenderer has complete the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the Tenderer's ability to perform the Contract in the best interests of the Employer or potentially compromise the tender process.</li> <li>(h) the Tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer;</li> <li>(i) the Employer is reasonably satisfied that the Tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely.</li> <li>(j) the Tenderer has not failed to perform on any previous contracts and has not been given a written notice to the effect.</li> <li>(k) the Tenderer has submitted certified copies of the directors, owners and shareholders' identity documents with the tender offer.</li> <li>(l) the Tenderer must be registered on the Central Supplier Database.</li> <li>(m) Tenderer who submitted a tender as a Joint Venture has included an acceptable Joint Venture Agreement with his/her tender or has provided a letter of intent to form a Joint Venture signed by all parties.</li> <li>(n) the Tenderer is not in arrears for more than 30 days with municipal rates and taxes and services charges.</li> <li>(o) the Tenderer complies with the specifications and conditions applicable to the product and submitted all the required documentation as stipulated in part C3: Scope of Works.</li> </ul>		

F.3.16	<b>Notice to tenderers</b>
F.3.16.1	Before accepting the tender of the successful tenderer, the Employer shall notify the successful tenderer in writing of the decision of the Employer's Bid Adjudication Committee to award the tender to the successful tenderer. No rights shall accrue to the successful tenderer in terms of this notice.
F.3.16.2	The Employer shall, at the same time as notifying the successful tenderer of the Bid Adjudication Committee's decision to award the tender to the successful tenderer, also give written notice to the other tenderers informing them that they have been unsuccessful.
F.3.17	<b>Provide copies of the contract</b>
	The employer will provide the successful tenderer with one (1) paper copy of the signed contract as soon as possible after completion and signing of the form of offer and acceptance.
F.3.20	<p>The additional conditions of Tender are:</p> <ol style="list-style-type: none"> <li>1. George Municipality may also request that the Tenderer provide written evidence that his/her financial, labour and resources are adequate for carrying out the project.</li> <li>2. The George Municipality reserves the right to appoint a firm of chartered accountants and auditors and/or execute any other financial investigations on the financial resources of any Tenderer. The Tenderer shall provide all reasonable assistance in such investigations.</li> <li>3. Tender documents must be completed in black ink, and prices must include VAT, only where applicable and requested in the schedule of activities.</li> <li>4. Corrections may not be made by means of a correction fluid such as Tipp-Ex or a similar product. In the event of a mistake having been made it shall be crossed out in ink and be accompanied by a full signature at each and every alteration. The Municipality reserves the right to reject the Tender if corrections are not made in accordance with the above.</li> </ol>

**B-BBEE certificates submitted with the tender documents MUST be a VALID ORIGINAL B-BBEE CERTIFICATE or VALID CERTIFIED COPY OF THE B-BBEE CERTIFICATE.**

**In the case of a Trust, Consortium or Joint Venture, they will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.**

## GEORGE MUNICIPALITY

## DIRECTORATE: CIVIL ENGINEERING SERVICES

TENDER NUMBER: T/ING/012/2020

TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER  
AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF  
VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3)  
YEARS

## TENDER DATA – MBD RETURNABLE FORMS (Part T1.3)

*(ALL Documents and Schedules MUST BE RETURNED for the TENDER to Qualify)*

### List of MBD Returnable Forms Required for Tender Evaluation Purposes

MBD 1	Tax Compliance Information (Part A & B)
MBD4	Declaration of Interest
MBD 5	Declaration for Procurement above R 10 Million (All Applicable Taxed Included)
MBD 6.1	Preference Points Claim Form in Terms of the Preferential Procurement Regulation 2017
MBD 8	Declaration of Bidder's Past Supply Chain Management Practices
MBD 9	Certificate of Independent Bid Determination

#### **NOTE:**

Although the documents under Part T1.3 is headed "Tender Data – MBD Returnable Forms", these are not the only documents to be returned together with the Tender. **All** the documents indicated on document T2, must be completed and signed where applicable and submitted as a **complete set of documents**.

**TAX COMPLIANCE INFORMATION**

**PART A**

Tax Compliance Status	TCS Pin:		or	CSD No:	
B-BBEE Status Level Verification Certificate [Tick Applicable Box]	<input type="checkbox"/> Yes <input type="checkbox"/> No			B-BBEE Status Level Sworn Affidavit	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE / SWORN AFFIDAVIT (FORM EMES &amp; QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]</b>					
Are You The Accredited Representative In South Africa For The Goods / Services / Works Offered?	<input type="checkbox"/> Yes <input type="checkbox"/> No [If Yes, Enclose Proof]			Are You A Foreign Based Supplier For The Goods / Services / Works Offered?	<input type="checkbox"/> Yes <input type="checkbox"/> No [If Yes, Answer Part 2.]
Signature of Bidder	.....			Date	.....

## PART B TERMS AND CONDITIONS FOR BIDDING

<b>1. TAX COMPLIANCE REQUIREMENTS</b>		
1.1	BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.	
1.2	BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.	
1.3	APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE <a href="http://WWW.SARS.GOV.ZA">WWW.SARS.GOV.ZA</a> .	
1.4	FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B2.	
1.5	BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.	
1.6	IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.	
1.7	WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.	
<b>2. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS [Tick Applicable Box]</b>		
2.1	Is the entity a resident of the Republic of South Africa (RSA)?	YES    NO
2.2	Does the entity have a branch in the RSA?	YES    NO
2.3	Does the entity have a permanent establishment in the RSA?	YES    NO
2.4	Does the entity have any source of income in the RSA?	YES    NO
2.5	Is the entity liable in the RSA for any form of taxation?	YES    NO
<b>IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 1.3 ABOVE.</b>		

**NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID. NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.**

Signature of Bidder: .....

Capacity Under Which This Bid Is Signed: .....

Date: .....

**DECLARATION OF INTEREST**

1.	No bid will be accepted from persons in the service of the state*.	
2.	Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in the service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.	
3.	In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.	
3.1	Full Name of bidder or his / her representative: .....	
3.2	Identity number: .....	
3.3	Position occupied in the Company (director, trustee, shareholder <sup>2</sup> ): .....	
3.4	Company Registration Number: .....	
3.5	Tax Reference Number: .....	
3.6	VAT Registration Number: .....	
3.7	The names of all directors / trustees / shareholders / members, their individual identity numbers and state employee numbers (where applicable) must be indicated in paragraph 4 below.	
3.8	Are you presently in the service of the state? *	<b>YES / NO</b>
3.8.1	If yes, furnish the following particulars:  Name of person / director / trustee / shareholder member: .....  Name of state institution at which you or the person connected to the bidder is employed: .....  Position occupied in the state institution: .....  Any other particulars: ..... .....	
3.9	Have you been in the service of the state for the past twelve months?	<b>YES / NO</b>
3.9.1	If so, furnish particulars.	

	..... .....	
3.10	Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?	<b>YES / NO</b>
3.10.1	If yes, furnish the following particulars:  Name of person: .....  Name of state institution at which you or the person connected to the bidder is employed:  .....  Position occupied in the state institution:  .....  Any other particulars: .....  .....	
3.11	Are you aware of any relationship (family, friend, other) between the bidder and any person in the service of the state who may be involved with the evaluation and or adjudication of this bid?	<b>YES / NO</b>
3.11.1	If yes, furnish the following particulars:  Name of person: .....  Name of state institution at which you or the person connected to the bidder is employed:  .....  Position occupied in the state institution: .....  Any other particulars: .....  .....	
3.12	Are any of the company's directors, managers, principal shareholders or stakeholders in the service of the state?	<b>YES / NO</b>
3.12.1	If yes, furnish the following particulars:  Name of person / director / trustee / shareholder / member:  .....  Name of state institution at which you or the person connected to the bidder is employed:  .....	

	Position occupied in the state institution: ..... Any other particulars: ..... .....		
3.13  3.13.1	Is any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in the service of the state?  If yes, furnish the following particulars:  Name of person / director / trustee / shareholder / member: .....  Name of state institution at which you or the person connected to the bidder is employed: .....  Position occupied in the state institution: .....  Any other particulars: ..... .....	<b>YES / NO</b>	
3.14  3.14.1	Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract?  If yes, furnish particulars:  .....  .....	<b>YES / NO</b>	
4. Full details of directors / trustees / members / shareholders:			
<b>THE FOLLOWING INFORMATION IS COMPULSORY TO COMPLETE:</b>			
<b>Full Name</b>	<b>Identity Number</b>	<b>Individual Tax Number for each Director</b>	<b>State Employee Number (where applicable)</b>

<b>5.</b>	<b>The contract will be automatically cancelled if there is a conflict of interest which is not disclosed by the bidder.</b>		

.....  
Signature

.....  
Date

.....  
Capacity

.....  
Name of Bidder

<sup>1</sup>MSCM Regulations: “in the service of the state” means to be -

- (a) a member of –
  - (i) any municipal council;
  - (ii) any provincial legislature; or
  - (iii) the National Assembly or the National Council of Provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official or any Municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (e) a member of the accounting authority of any national or provincial entity; or
- (f) an employee of Parliament or a provincial legislature.

<sup>2</sup>”Shareholder” means a person who owns shares in the company and is actively involved in the management of the company or business and exercise control over the company.

**DECLARATION FOR PROCUREMENT ABOVE R10 MILLION  
(ALL APPLICABLE TAXES INCLUDED)**

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire:

1. Are you by law required to prepare annual financial statements for auditing? **\*YES / NO**

1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.

.....  
.....

2. Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days? **\*YES / NO**

2.1 If no, this serves to certify that the bidder has no undisputed commitments for municipal services toward any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days.

2.2 If yes, provide particulars.

.....  
.....  
.....  
.....

3. Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract? **\*YES / NO**

3.1 If yes, provide particulars.

.....  
.....  
.....  
.....

4 Will any portion of goods or services be sourced from outside **\*YES / NO** the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic?

4.1 If yes, furnish particulars.

.....  
.....  
.....  
.....

**CERTIFICATION**

I, THE UNDERSIGNED (NAME)  
.....

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT. I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of Bidder

## PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.**

### 1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to all bids:
- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
  - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2

- a) The value of this bid is estimated to not exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable; or

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
<b>PRICE</b>	80
<b>B-BBEE STATUS LEVEL OF CONTRIBUTOR</b>	20
<b>Total points for Price and B-BBEE must not exceed</b>	<b>100</b>

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

### 2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic

empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
  - 1) B-BBEE Status level certificate issued by an authorized body or person;
  - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
  - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

### 3. POINTS AWARDED FOR PRICE

#### 3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

**80/20**                      **or**                      **90/10**

$$P_s = 80 \left( 1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left( 1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

$P_s$  = Points scored for price of bid under consideration

$P_t$  = Price of bid under consideration

$P_{\min}$  = Price of lowest acceptable bid

### 4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

- 4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

## 5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

### 6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: . = ..... (maximum of 20 points).

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

## 7. SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?

**(Tick applicable box)**

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

7.1.1 If yes, indicate:

i) What percentage of the contract will be subcontracted.....%

ii) The name of the sub-contractor.....

iii) The B-BBEE status level of the sub-contractor.....

iv) Whether the sub-contractor is an EME or QSE

**(Tick applicable box)**

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
<b>OR</b>		
Any EME		
Any QSE		

**8. DECLARATION WITH REGARD TO COMPANY/FIRM**

8.1 Name \_\_\_\_\_ of  
company/firm:.....

8.2 VAT \_\_\_\_\_ registration  
number:.....

8.3 Company \_\_\_\_\_ registration  
number:.....

**8.4 TYPE OF COMPANY/ FIRM**

- Partnership/Joint Venture / Consortium
  - One person business/sole propriety
  - Close corporation
  - Company
  - (Pty) Limited
- [TICK APPLICABLE BOX]

**8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

.....  
 .....  
 .....  
 .....  
 .....

**8.6 COMPANY CLASSIFICATION**

- Manufacturer
  - Supplier
  - Professional service provider
  - Other service providers, e.g. transporter, etc.
- [TICK APPLICABLE BOX]

**8.7 MUNICIPAL INFORMATION**

**Municipality where business is situated:**  
 .....

**Registered Account Number:** .....

**Stand Number:**.....

8.8 Total number of years the company/firm has been in business:.....

8.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) disqualify the person from the bidding process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person’s conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution.

<b>WITNESSES</b>	
1.	.....
2.	.....

..... <b>SIGNATURE(S) OF BIDDERS(S)</b>	
DATE:	.....
ADDRESS	.....
	.....
	.....

**SWORN AFFIDAVIT – BBEE EXEMPTED MICRO ENTERPRISE**

**SWORN AFFIDAVIT – B-BBEE EXEMPTED MICRO ENTERPRISE**

I, the undersigned,

<b>Full name &amp; Surname</b>	
<b>Identity number</b>	

Hereby declare under oath as follows:

1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
2. I am a member / director / owner of the following enterprise and am duly authorised to act on its behalf:

<b>Enterprise Name</b>	
<b>Trading Name</b>	
<b>Registration Number</b>	
<b>Enterprise Address</b>	

3. I hereby declare under oath that:
  - The enterprise is \_\_\_\_\_% black owned;
  - The enterprise is \_\_\_\_\_% black woman owned;
  - Based on the management accounts and other information available on the \_\_\_\_\_ financial year, the income did not exceed R10,000,000.00 (ten million rands);
  - Please confirm on the table below the B-BBEE level contributor, **by ticking the applicable box.**

100% black owned	<b>Level One</b> (135% B-BBEE procurement recognition)	
More than 51% black owned	<b>Level Two</b> (125% B-BBEE procurement recognition)	
Less than 51% black owned	<b>Level Four</b> (100% B-BBEE procurement recognition)	

4. The entity is an empowering supplier in terms of **the dti** Codes of Good Practice.
5. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent in this matter.
6. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
 Commissioner of Oaths  
 Signature & stamp

## DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
  - 8.10 abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
  - 8.11 been convicted for fraud or corruption during the past five years;
  - 8.12 willfully neglected, reneged on or failed to comply with any government, municipal or other public-sector contract during the past five years; or
  - 8.13 been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
4. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury's database as a company or person prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).</p> <p><b>The Database of Restricted Suppliers now resides on the National Treasury's ebsite (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</b></p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p><b>The Register for Tender Defaulters can be accessed on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) by clicking on its link at the bottom of the home page.</b></p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
<b>Item</b>	<b>Question</b>	<b>Yes</b>	<b>No</b>
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.5.1	If so, furnish particulars:		

**CERTIFICATION**

I, THE UNDERSIGNED (FULL NAME) .....  
**CERTIFY THAT THE INFORMATION FURNISHED ON THIS  
 DECLARATION  
 FORM IS TRUE AND CORRECT.**

**I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT,  
 ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION  
 PROVE TO BE FALSE.**

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name of Bidder**

## CERTIFICATE OF INDEPENDENT BID DETERMINATION

1. This Municipal Bidding Document (MBD) must form part of all bids<sup>1</sup> invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).<sup>2</sup> Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
3. Municipal Supply Regulation 38(1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
  - 3.1 take all reasonable steps to prevent such abuse;
  - 3.2 reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
  - 3.3 cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
4. This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (MBD9) must be completed and submitted with the bid:

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.

<sup>2</sup> Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

**CERTIFICATE OF INDEPENDENT BID DETERMINATION**

I, the undersigned, in submitting the accompanying bid:

\_\_\_\_\_ (Bid Number and Description)

in response to the invitation for the bid made by:

**GEORGE MUNICIPALITY**

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: \_\_\_\_\_ that:  
(Name of Bidder)

- 6. I have read and I understand the contents of this Certificate;
- 7. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
- 8. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
- 9. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
- 10. For the purposes of this Certificate and the accompanying bid, I understand that the word “competitor” shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
  - 10.1 has been requested to submit a bid in response to this bid invitation;
  - 10.2 could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
  - 10.3 Provides the same goods and services as the bidder and/or is in the same line of business as the bidder.

**MBD9**

- 11 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
  
- 12 In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - 12.1 prices;
  - 12.2 geographical area where product or service will be rendered (market allocation);
  - 12.3 methods, factors or formulas used to calculate prices;
  - 12.4 the intention or decision to submit or not to submit, a bid;
  - 12.5 the submission of a bid which does not meet the specifications and conditions of the bid; or bidding with the intention not to win the bid.
  
13. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
  
14. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
  
15. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No. 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No. 12 of 2004 or any other applicable legislation.

.....  
 Signature Date

.....  
 Position Name of Bidder

<sup>3</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

**CERTIFICATE FOR MUNICIPAL SERVICES (COMPULSORY TO COMPLETE)**

Information required in terms of the Supply Chain Management Regulations, Regulation 28 (1) (c).

<b>Tender Number: T/ING/012/2020</b>
<b>Name of the Bidder:</b> _____

**DETAILS OF THE BIDDER/S: Owner / Proprietor / Director(s) / Partner(s), etc:**

Physical Business address of the Bidder	Municipal Account Number(s)

If there is not enough space for all the names, please attach the additional details to the Tender document.

Name of Director / Member / Partner	Identity Number	Physical <b>residential</b> address of Director / Member / Partner	Municipal Account number(s)

I, \_\_\_\_\_, the undersigned, **(full name in block letters)** certify that the information furnished on this declaration form is correct and that I/we have no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days.

\_\_\_\_\_  
Signature

THUS DONE AND SIGNED for and on behalf of the Bidder / Contractor

at \_\_\_\_\_ on the \_\_\_\_\_ day of \_\_\_\_\_ 2021

**PLEASE NOTE:**

**MUNICIPAL ACCOUNTS FOR ALL PROPERTIES OWNED BY BIDDER/S MUST BE ATTACHED TO THE TENDER DOCUMENT!**  
 Even if the requested information is not applicable to the Bidder, the table above should be endorsed **NOT APPLICABLE** with a reason and **THIS DECLARATION MUST STILL BE COMPLETED AND SIGNED.** In the event of leasing, a lease agreement **MUST** be attached to the tender document.

GEORGE MUNICIPALITY

DIRECTORATE: CIVIL ENGINEERING SERVICES

TENDER NUMBER: T/ING/012/2020

TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER  
AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF  
VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3)  
YEARS

**Returnable Documents (Part T2)**

*(ALL Documents and Schedules MUST BE RETURNED for the  
TENDER to Qualify)*

- T2.1 List of Returnable Schedules Required for Tender Evaluation & Returnable Schedules
- T2.2 Other Documents Required for Tender Evaluation Purposes
- T2.3 Returnable Schedules That Will be Incorporated in the Contract

**NOTE:**

Although the documents under Part T2 is headed “Returnable Documents” in line with the CIDB model, these are not the only documents to be returned together with the Tender. **All** the documents indicated on document T1, must be completed and signed where applicable and submitted as a **complete set of documents**.

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Returnable Schedules Required for Tender  
Evaluation Purposes (T2.1)**

Form 2.1.1	General Information
Form 2.1.2	Authority for Signatory
Form 2.1.3A	Pre-Qualification
Form 2.1.3B	Tender Evaluation Checklist
Form 2.1.3C	Schedule of Work Carried out by Tenderer
Form 2.1.3D	Proposed Key Personnel
Form 2.1.4	Schedule of Infrastructure and Resources
Form 2.1.5	Schedule of Proposed Sub-Contractors
Form 2.1.6	Financial References
Form 2.1.7	Variations in Rate of Exchange
Form 2.1.8	Declaration: Certificate for Local Production and Content
Form 2.1.9	Data Sheets

**FORM 2.1.1 GENERAL INFORMATION**

1. Name of tendering entity:

\_\_\_\_\_

1. Contact details

Address :

\_\_\_\_\_

\_\_\_\_\_

Tel no :

( ) \_\_\_\_\_

Fax no :

( ) \_\_\_\_\_

E-mail address :

\_\_\_\_\_

2. Legal entity: Mark with an X.

Sole proprietor	
Partnership	
Close corporation	
Company (Pty) Ltd	
Joint venture	

In the case of a Joint venture, provide details on joint venture members:

Joint venture member	Type of entity (as defined above)

3. Income tax reference number: \_\_\_\_\_ (in the case of a joint venture, provide for all joint venture members)

**Returnable Schedules Required for Tender Evaluation**

**Part T2.1**

4. Regional services area where the enterprise is registered: \_\_\_\_\_ (In the case of a joint venture, provide for all joint venture members)
5. Regional services levy registration number: \_\_\_\_\_ (In the case of a joint venture, provide for all joint venture members)
6. VAT registration number: \_\_\_\_\_ (In the case of a joint venture, provide for all joint venture members)
8. Company or closed corporation registration number: \_\_\_\_\_ (In the case of a joint venture, provide for all joint venture members)
9. Details of proprietor, partners, closed corporation members, or company directors, indicating technical qualifications where applicable (Form on the next page).
10. For joint ventures the following must be attached (**COMPULSORY**):
  - Written power of attorney for authorised signatory.
  - **Pro-forma of the joint venture agreement.**  
\* If the Joint Venture Agreement is not attached, the tender will not be considered!

**DETAILS OF PROPRIETOR, PARTNERS, CLOSED CORPORATION MEMBERS OR COMPANY DIRECTORS**

Name and Identity Number	Relevant qualifications and experience	Years of relevant experience

**Name of Tendering Entity :** \_\_\_\_\_

**Signature :** \_\_\_\_\_ **Date :** \_\_\_\_\_

**FORM 2.1.2 AUTHORITY FOR SIGNATORY**

Details of person responsible for Tender process

Name .....

Contact number ( ) .....

Address of office submitting the  
Tender .....

Telephone no ( ) .....

Fax no ( ) .....

E-mail address .....

Signatories for close corporations and companies shall confirm their authority by attaching to this form a **duly signed and dated original or certified copy** of the relevant resolution of their members or their board of directors, as the case may be.

“By resolution of the board of directors passed on (date) .....

Mr. ....

has been duly authorized to sign all documents in connection with the Tender for Contract Number .....and any Contract which may arise there from on behalf of

(BLOCK CAPITALS)

.....  
.....

SIGNED ON BEHALF OF THE COMPANY .....

IN HIS CAPACITY AS .....

DATE .....  
..... :

FULL NAMES OF SIGNATORY .....

AS WITNESSES 1.....

2.....

**FORM 2.1.3A PRE-QUALIFICATION**

The criteria indicated in the Pre-Qualification will be used to calculate points for the quality of bids and Tenderers should ensure that they submit all information in order to be pre-evaluated on the criteria mentioned.

Note that:

- Tenderers will be allocated a quality score in terms of the Quality Scoring Evaluation Criteria Table below. The score for quality will be determined by the Employer, as evidenced by the documentation provided with the tender. No correspondence will be entered into with tenderers in sourcing documentation to enable and/or substantiate claims for evaluation points after the tender closing date.
- The **minimum** quality score required is 70 points out of 100 (or 70%). Tenderers who do not obtain this minimum score will not be considered responsive and their tender will not be evaluated further.
- The tenderer must supply supporting documentation per category. The documentation must be in a separate supporting document or file that is submitted with the tender into, neatly grouped the same numbering as the item numbers and sections below providing the required information to provide proof of the points claim and contain contact persons and details. The Tenderer must list the relevant experience as requested, not a general experience list. Unclear or incomplete information provided will result in no points being awarded, per specific item. No additional information will be requested.

**PART A – LANDSCAPING, GRASS CUTTING AND SITE CLEANING:****1. PRE-QUALIFICATION CRITERIA**

Item	Description of Criteria	Maximum Points Available	Points Awarded
1	Tenderer's experience	50	
2	Staff and personnel	50	
	Total	100	

**1.1. Tenderer's Experience****Max 50pts**

The Tenderer's experience to execute a maintenance project is hereby evaluated, within the specific Municipal application. A detailed summary list must be provided with the Tenderer submission, to **Form 2.1.3C: Schedule of Maintenance Contracts Carried Out by Tenderer**, which must have sufficient detail to indicate specific projects which were completed by the Tenderer. **Table 2 will be applicable.**

Table 2: Company Maintenance Experience		
Description	Size of contract	Points awarded
Excellent	R300k or larger	50
Good	Up to R300k	40
Fair	Up to R200k	30
Poor	Less than R100k	15

**1.2. Staff and Personnel****Max 50 pts**

The Tenderer's key personnel's experience in projects relating to this discipline. Proven experience in the applicable required field in order to execute these types of project is hereby evaluated. . The evaluation will include the proposed qualification, and number of applicable years' experience. Proof of qualifications and experience (CV), for projects of similar nature, must be attached to **Form 2.1.3D: Proposed Key Personnel** and must clearly indicate the qualification and also experience over the past 10 years. **Table 3 & 4 will be applicable.**

All requirements listed must be completed in the applicable schedules, with supporting documentation submitted as part of the tender submission. Failing to comply with the requirement set out below, the tenderer will be deemed non-compliant and their tender will be non-responsive:

- 1 x Contracts Manager with at least 3 years' experience in operations management of such services
- 1 x Lawnmower/Brush cutter operator with at least 3 years' related experience

An updated CV of all Key personnel as well as supporting documents/certificates must be submitted with the tender.

<b>Table 3: Staff and personnel</b>	
<b>Team member description</b>	<b>Points awarded</b>
Contract manager	20
Lawnmower / Brushcutter operator	15
General Worker	15

<b>Table 4: Years' experience</b>	
<b>Applicable years' experience</b>	<b>% of point allocated</b>
<b>≥10 years</b>	<b>100</b>
<b>5 -10 years</b>	<b>70</b>
<b>3 - 5 years</b>	<b>50</b>
<b>&lt; 3 years</b>	<b>Non-compliant</b>

**1.3. PRE-QUALIFICATION DEFINITIONS**

**1.3.1. "Completion of a similar maintenance project"** means the completion of a maintenance contract, for a Municipality, that can be compared with the scope of works of this tender document, in relation to size and type of deliverable components.

**1.3.2. "General cleaning services experience"** means the direct involvement, in cleaning services, both inside the building / structure and yard bush clearing – projects and/or maintenance work

- 1.3.3. **"Key Personnel"** means those personnel, indicated under item 1.2, and that are in permanent employ of the Contractor and directly involved with the Municipality and project.
- 1.3.4. **"Relevant experience"** means years' experience in a similar position in line with the technical scope.
- 1.3.5. **"Relevant qualified artisan"** means an artisan with a qualified trade test at an accredited institution.
- 1.3.6. **"Scope"** means as defined in the Terms of Reference of this particular maintenance tender.

**PART B –SEWER SUCTION AND RELATED SERVICES:****1. PRE-QUALIFICATION CRITERIA**

Item	Description of Criteria	Maximum Points Available	Points Awarded
1	Tenderer's experience	50	
2	Staff and personnel	50	
	Total	100	

**1.1. Tenderer's Experience****Max 50pts**

The Tenderer's experience to execute a maintenance project is hereby evaluated, within the specific water and sewer Municipal application. A detailed summary list must be provided with the Tenderer submission, to **Form 2.1.3C: Schedule of Maintenance Contracts Carried Out by Tenderer**, which must have sufficient detail to indicate specific projects which were completed by the Tenderer. **Table 2 will be applicable.**

Table 2: Company Maintenance Experience		
Description	Size of contract	Points awarded
Excellent	R1M or larger	50
Good	Up to R1M	40
Fair	Up to R700k	25
Poor	Less than R500k	10

**1.2. Staff and Personnel****Max 50 pts**

The Tenderer's key personnel's experience in projects relating to this discipline. Proven experience in the applicable required field in order to execute these types of project is hereby evaluated. The evaluation will include the proposed qualification, and number of applicable years' experience. Proof of qualifications and experience (CV), for projects of similar nature, must be attached to **Form 2.1.3D: Proposed Key Personnel** and must clearly indicate the qualification and also experience over the past 10 years. **Table 3 & 4 will be applicable.**

All requirements listed must be completed in the applicable schedules, with supporting documentation submitted as part of the tender submission. Failing to comply with the requirement set out below, the tenderer will be deemed non-compliant and their tender will be non-responsive:

- 1 x Contracts Manager with at least 3 years' experience in operations management of such services
- 1 x Vacuum Tanker Driver/Supervisor/Operator with at least 3 years' related experience.

An updated CV of all Key personnel as well as supporting documents/certificates must be submitted with the tender.

<b>Table 3: Staff and personnel</b>	
<b>Team member description</b>	<b>Points awarded</b>
Contract manager	20
Tanker Driver / Operator / Supervisor	15
2 x General Workers	15

<b>Table 4: Years' experience</b>	
<b>Applicable years' experience</b>	<b>% of point allocated</b>
<b>≥10 years</b>	<b>100</b>
<b>5 -10 years</b>	<b>70</b>
<b>3 - 5 years</b>	<b>50</b>
<b>&lt; 3 years</b>	<b>Non-compliant</b>

**1.3. PRE-QUALIFICATION DEFINITIONS**

**1.3.1. "Completion of a similar maintenance project"** means the completion of a maintenance contract, for a Municipality, that can be compared with the scope of works of this tender document, in relation to size and type of deliverable components.

**1.3.2. "General sewage pump station experience"** means the direct involvement, working on and responsibility for cleaning of sewage pump station sump and removing debris – projects and/or maintenance work

**1.3.3. "Key Personnel"** means those personnel, indicated under item 1.2, and that are in permanent employ of the Contractor and directly involved with the Municipality and project.

- 1.3.4. **“Relevant experience”** means years’ experience in a similar position in line with the technical scope.
- 1.3.5. **“Relevant qualified artisan”** means an artisan with a qualified trade test at an accredited institution.
- 1.3.6. **“Scope”** means as defined in the Terms of Reference of this particular maintenance tender.

**PART C – MINOR CIVIL WORKS:****1. PRE-QUALIFICATION CRITERIA**

Item	Description of Criteria	Maximum Points Available	Points Awarded
1	Tenderer's experience	50	
2	Staff and personnel	50	
	Total	100	

**1.1. Tenderer's Experience****Max 50pts**

The Tenderer's experience to execute construction of concrete structures with project values of at least R 100 000-00 (excluding VAT) with in the last 10 years, such as sumps, chambers, etc. is hereby evaluated. A detailed summary list must be provided with the Tenderer submission, to **Form 2.1.3C: Schedule of Sewage Pump Station Work and related sewer networks work Carried Out by Tenderer**, which must have sufficient detail to indicate specific projects which were completed by the Tenderer. **Table 2 will be applicable.**

<b>Table 2 Company Sewage PS and Network related Experience</b>		
Description	No of projects	Points awarded
Excellent	7 or more projects	50
Good	5-6 projects	40
Fair	3-4 projects	25
Poor	Less than 3 projects	10

**1.2. Staff and Personnel****Max 50 pts**

The Tenderer's key personnel's experience in projects relating to this discipline. Proven experience in the applicable required field in order to execute these types of project is hereby evaluated. . The evaluation will include the proposed qualification, and number of applicable years' experience. Proof of qualifications and experience (CV), for projects of similar nature, must be attached to **Form 2.1.3D: Proposed Key Personnel** and must clearly indicate the qualification and also experience over the past 10 years. **Table 3 & 4 will be applicable.**

All requirements listed must be completed in the applicable schedules, with supporting documentation submitted as part of the tender submission. Failing to comply with the requirement set out below, the tenderer will be deemed non-compliant and their tender will be non-responsive:

- 1 x Contracts Manager with at least 3 years' experience in operations management of such services
- 1 x Site Foreman with at least 3 years' related experience
- 1 x Artisan / Brick layer / Concrete Worker with at least 3 years related experience.

Updated CV of all Key personnel as well as supporting documents/certificates must be submitted with the tender.

Table 3: Staff and personnel	
Team member description	Points awarded
Contract manager	20
Site Agent	15
Artisan / brick layer	15

Table 4: Years' experience	
Applicable years' experience	% of point allocated
≥10 years	100
5 -10 years	70
3 - 5 years	50
< 3 years	Non-compliant

### 1.3. PRE-QUALIFICATION DEFINITIONS

- 1.3.1. "Completion of a similar construction project"** means the completion of a maintenance contract, for a Municipality, that can be compared with the scope of works of this tender document, in relation to size and type of deliverable components.
- 1.3.2. "Concrete structure experience"** means the direct involvement, working on and responsibility for constructing new concrete structures – projects and/or maintenance work
- 1.3.3. "Key Personnel"** means those personnel, indicated under item 1.2, and that are in permanent employ of the Contractor and directly involved with the Municipality and project.
- 1.3.4. "Relevant experience"** means years' experience in a similar position in line with the technical scope.
- 1.3.5. "Relevant qualified artisan"** means an artisan with a qualified trade test at an accredited institution.
- 1.3.6. "Scope"** means as defined in the Terms of Reference of this particular maintenance tender.

**PART D – MECHANICAL AND ELECTRICAL SERVICES:****1. PRE-QUALIFICATION CRITERIA**

Item	Description of Criteria	Maximum Points Available	Points Awarded
1	Tenderer's experience	50	
2	Staff and personnel	50	
	Total	100	

**1.1. Tenderer's Experience****Max 50pts****1.1.1. Maintenance Framework Projects****20pts**

The Tenderer's experience to execute a maintenance project is hereby evaluated, within the specific water and sewer Municipal application. A detailed summary list must be provided with the Tenderer submission, to **Form 2: Schedule of Maintenance Contracts Carried Out by Tenderer**, which must have sufficient detail to indicate specific projects which were completed by the Tenderer. **Table 2 will be applicable.**

Table 2: Company Maintenance Experience		
Description	Size of contract	Points awarded
Excellent	Up to R6M or larger	20
Good	Up to R3M	15
Fair	Up to R1M	10
Poor	Less than R1M	0

**1.1.2. Sewage Pump Station Projects****30pts**

The Tenderer's experience to execute mechanical and electrical work within sewer pump stations, and ancillaries, is hereby evaluated. A detailed summary list must be provided with the Tenderer submission, to **Form 3: Schedule of Sewage Pump Station Work Carried Out by Tenderer**, which must have sufficient detail to indicate specific projects which were completed by the Tenderer. **Table 3 will be applicable.**

Table 3 Company Sewage PS Experience		
Description	No of projects	Points awarded
Excellent	15 or more projects	30
Good	10 projects	15
Fair	5 projects	5
Poor	No projects	0

**1.2. Staff and Personnel****Max 50 pts**

The Tenderer's key personnel's experience in projects relating to this discipline. Proven experience in the applicable required field in order to execute these types of project is hereby evaluated. The evaluation will include the proposed qualification, and number of applicable years' experience. Proof of qualifications and experience (CV),

for projects of similar nature, must be attached to **Form 4: Proposed Key Personnel** and must clearly indicate the qualification and also experience over the past 10 years. **Table 4 & 5 will be applicable.**

All requirements listed must be completed in the applicable schedules, with supporting documentation submitted as part of the tender submission. Failing to comply with the requirement set out below, the tenderer will be deemed non-compliant and their tender will be non-responsive:

- 1x Contracts manager with 5 years' experience in managing similar Mechanical and Electrical Refurbishment - and Construction Contracts.
- 1 x Qualified/Trade Tested Installation Electrician who in in possession of a Wireman's License, with at least 5 years working experience in 400V Motor wiring, Motor Control, Instrumentation and related.
- 1 x Pump Fitter/Artisan with at least 5 years working experience in pump fitment/installation and repairs

Updated CV of all Key personnel as well as supporting documents/certificates must be submitted with the tender.

<b>Table 4: Staff and personnel</b>	
<b>Team member description</b>	<b>Points awarded</b>
Contract manager	20
Mechanical artisan/Pump Fitter	10
Electrician (three-phase)	10
2x General Labourers	10

<b>Table 5: Years' experience</b>	
<b>Applicable years' experience</b>	<b>% of point allocated</b>
<b>≥ 10 years</b>	<b>100</b>
<b>7-10 years</b>	<b>70</b>
<b>5-7 years</b>	<b>50</b>
<b>&lt; 5 years</b>	<b>Non-compliant</b>

**1.3. PRE-QUALIFICATION DEFINITIONS**

- 1.3.1. “Completion of a similar maintenance project”** means the completion of a maintenance contract, for a Municipality, that can be compared with the scope of works of this tender document, in relation to size and type of deliverable components.
- 1.3.2. “General sewage pump station experience”** means the direct involvement, working on and responsibility for sewage pump station related work, within the mechanical and electrical technical spheres – projects and/or maintenance work
- 1.3.3. “Electrical Installation”** means any machinery, in or on any premises, used for the transmission of electricity from a point of supply/control to a point of consumption anywhere on the premises, including any article forming part of such an electrical installation irrespective of whether or not it is part of the electrical circuit, but excluding-
- 1.3.4. “Electrical Installation Regulations, 2009”** means the Electrical Installation Regulations, 2009, originally promulgated by Government Notice No. R. 2920 of 23 October 1992, coming into effect 1 April 2010.
- 1.3.5. “Installation electrician”** means a person who has been registered as an installation electrician in terms of regulation 11(2) for the verification and certification of the construction, testing and inspection of any electrical installation, excluding specialized electrical installations and able to issue an Electrical Certificate of Compliance for either single or three phase installations.
- 1.3.6. “Installation work”** means –
- 1.3.6.1.** the installation, extension, modification or repair of a mechanical or electrical installation and/or equipment;
  - 1.3.6.2.** the connection of machinery at the supply terminals of such machinery; or
  - 1.3.6.3.** the inspection, testing and verification of electrical installations for the purpose of issuing a certificate of compliance.
  - 1.3.6.4.** the inspection, testing and verification of mechanical equipment for the purpose of providing a status report.
- 1.3.7. “Key Personnel”** means those personnel, indicated under item 1.2, and that are in permanent employ of the Contractor and directly involved with the Municipality and project.
- 1.3.8. “Relevant experience”** means years’ experience in a similar position in line with the technical scope.
- 1.3.9. “Relevant qualified artisan”** means an artisan with a qualified trade test at an accredited institution.
- 1.3.10. “Scope”** means as defined in the Terms of Reference of this particular maintenance tender.

**FORM 2.1.3B TENDER EVALUATION CHECKLIST**

Tenderers must furnish hereunder details of their equipment, workshop and facilities location, as well as equipment and facilities composition.

**PART A – LANDSCAPING, GRASS CUTTING AND SITE CLEANING:**

In order to be considered for an appointment in terms of this tender, Service Provider must have the minimum plant and equipment.

Checks	For use by Tenderer	For use by Employer	
	Comment/ committed to establish	Comment	Acceptable Yes/No
<b>Equipment Required:</b>			
1x LDV			
1x non-electrical / Petrol Lawnmower			
1x non-electrical / Petrol Bush cutter / Wead Eater			
Small Tools such as spades, rakes, brooms, garden shears, pressurized sprayer bottles.			

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Tenderer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature: George Municipality  
Contract Manager

**PART B –SEWER SUCTION AND RELATED SERVICES:**

In order to be considered for an appointment in terms of this tender, Service Provider must have the minimum plant and equipment within the George Municipal area, or have it established within 30 Days of Notification of Appointment, through which all communication with the employer will flow, and where the majority of work in terms of this tender will be carried out.

Checks	For use by Tenderer	For use by Employer	
	Comment/ committed to establish	Comment	Acceptable Yes/No
<b>Equipment Required:</b>			
1x LDV			
1x High Pressure Jet Machine and suitable sized water tank			
1x Drain Rod Set, with applicable attachments for manual unblocking.			
1x Tipper Truck with a minimum load capacity of 3m <sup>3</sup> to 6m <sup>3</sup> for removal and cleaning of Drums.			
1x Vacuum Tanker Truck/Super Sucker with a minimum capacity of 8000 L			
1x Diesel Driven Self Priming Sewage Pump Rig as Specified			
1x Sewer Camera Inspection Rig.			
Small Tools such as spades, rakes, brooms, garden shears, pressurized sprayer bottles.			

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Tenderer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature: George Municipality  
Contract Manager

**PART C – MINOR CIVIL WORKS:**

In order to be considered for an appointment in terms of this tender, Service Provider must have the minimum plant and equipment.

Checks	For use by Tenderer	For use by Employer	
	Comment/ committed to establish	Comment	Acceptable Yes/No
<b>Equipment Required:</b>			
1x LDV			
1x Tipper Truck with a minimum load capacity of 3m <sup>3</sup> to 6m <sup>3</sup> for cartage of sand/stone and related			
Small Tools related to civil and building works.			
Proof of Hire Arrangement for Digger Loader and/or Excavator for as and when needed.			

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Tenderer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature: George Municipality  
Contract Manager

**PART D – MECHANICAL AND ELECTRICAL SERVICES:**

In order to be considered for an appointment in terms of this tender, Service Provider must have a pump workshop facility in the George Municipal area, or have one established within 30 Days of Notification of Appointment, through which all communication with the employer will flow, and where the majority of work in terms of this tender will be carried out.

Workshop name:

---

Workshop location:

---

CHECKS	For use by Tenderer	For use by Employer	
	Comment / committed to establish	Comment	Acceptable Yes/No
<b>Workshop facility required:</b>			
Structure: <ul style="list-style-type: none"> <li>- Roof and walls</li> <li>- Hard Floor Area</li> <li>- Office</li> <li>- Floor markings and layout</li> </ul>			
Safe and Lockable storage			
Minimum working height of 3m available			
Wash Bay			
The workshop has suitable lifting equipment (forklift/overhead gantry or mobile A frame) to manage a load of up to 3000 kg.			
Work Benches Suitable to safely work on pumps and motors as indicated in the Specifications and Bills of Quantities.			
Tools & Equipment to suit pump and motor repairs, including bearing Pullers, Hydraulic Press, etc			

<b>Equipment Required:</b>			
1x Four Wheel Drive LDV			
1x Crane Truck			
1x 2.0 ton SWL Block and Tackle			

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Tenderer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature: George Municipality  
Contract Manager



**FORM 2.1.3D PROPOSED KEY PERSONNEL**

The tenderer is referred to the Specification and Tender Conditions and shall insert in the spaces provided below (if space is not sufficient this page may be copied):

- a) details of the key personnel required to be in the employment of the tenderer, in order for the tenderer to be responsive;
- b) the Curriculum Vitae of each individual must be attached to this schedule; and
- c) a statement for each of the individuals identified, which indicates any fields of specialization and any recent experience that is relevant to this tender (which may or may not form part of the individual's curriculum vitae). Tenderers should indicate to which part of this tender, the field of specialization is relevant to.

**Part A - Landscaping, Grass Cutting and Site Cleaning:**

Contract Manager			
Name	Qualifications and in house training	Registrations	No. of Years Specified Work Experience

Lawnmower / Bushcutter operator			
Name	Qualifications	Trade Registration No.	No. of Years Specified Work Experience

General Worker			
Name	Qualifications	Trade Registration No.	No. of Years Specified Work Experience

**Name of Tendering Entity :** \_\_\_\_\_

**Signature :** \_\_\_\_\_ **Date :** \_\_\_\_\_

**Part B - Sewer Suction and Related Services:**

<b>Contract Manager</b>			
<b>Name</b>	<b>Qualifications and in house training</b>	<b>Registrations</b>	<b>No. of Years Specified Work Experience</b>

<b>Tanker Driver / Operator / Supervisor</b>			
<b>Name</b>	<b>Qualifications</b>	<b>Trade Registration No.</b>	<b>No. of Years Specified Work Experience</b>

<b>General Worker 1</b>			
<b>Name</b>	<b>Qualifications</b>	<b>Trade Registration No.</b>	<b>No. of Years Specified Work Experience</b>

<b>General Worker 2</b>			
<b>Name</b>	<b>Qualifications</b>	<b>Trade Registration No.</b>	<b>No. of Years Specified Work Experience</b>

**Name of Tendering Entity :** \_\_\_\_\_

**Signature :** \_\_\_\_\_ **Date :** \_\_\_\_\_

**Part C - Minor Civil Works:**

<b>Contract Manager</b>			
<b>Name</b>	<b>Qualifications and in house training</b>	<b>Registrations</b>	<b>No. of Years Specified Work Experience</b>

<b>Site Agent</b>			
<b>Name</b>	<b>Qualifications</b>	<b>Trade Registration No.</b>	<b>No. of Years Specified Work Experience</b>

<b>Artisan / brick layer</b>			
<b>Name</b>	<b>Qualifications</b>	<b>Trade Registration No.</b>	<b>No. of Years Specified Work Experience</b>

**Name of Tendering Entity :** \_\_\_\_\_

**Signature :** \_\_\_\_\_ **Date :** \_\_\_\_\_

## Part D - Mechanical and Electrical Services:

Contract Manager			
Name	Qualifications and in house training	Registrations	No. of Years Specified Work Experience

Mechanical artisan / pump fitter			
Name	Qualifications	Trade Registration No.	No. of Years Specified Work Experience

Electrician (three phase)			
Name	Qualifications	Trade Registration No.	No. of Years Specified Work Experience

General Worker 1			
Name	Qualifications	Trade Registration No.	No. of Years Specified Work Experience

General Worker 2			
Name	Qualifications	Trade Registration No.	No. of Years Specified Work Experience

Name of Tendering Entity : \_\_\_\_\_

Signature : \_\_\_\_\_

Date : \_\_\_\_\_

**FORM 2.1.4 SCHEDULE OF INFRASTRUCTURE AND RESOURCES**

Provide information on the following:

**Infrastructure and resources available**

Physical facilities

Description	Address	Area (m <sup>2</sup> )

**Equipment**

Provide information on equipment and resources that you have available for this project (attach details if the spaces provided are not enough)

Description : Equipment owned	Number of units

**Size of enterprise and current workload:**

What was your turnover in the previous financial year? .....

What is the estimated turnover for your current financial year? .....

**List your current contracts and obligations:**

Description	Value ®	Start date	Duration	Expected completed date

Do you have the capacity to supply the goods and services described in this Tender, should the contract be awarded to you? YES / NO

**Staffing Profile:**

Provide information on the staff that you have available to execute this contract (attach a separate list if the space provided is insufficient)

Permanently employed staff : gender and race	Number of staff
Temporary staff to be employed for the project : gender and race	Number of staff

**Name of Tendering Entity :** \_\_\_\_\_

**Signature :** \_\_\_\_\_ **Date :** \_\_\_\_\_

**FORM 2.1.5 SCHEDULE OF SUB-CONTRACTORS**

**NOTE - NOT APPLICABLE**

No Sub-contracting of any Main Scope of Work Package shall be allowed. The contractor/service provider shall be capable of fulfilling all requirements within the tendering company/entities registration and resources.

**FORM 2.1.6 FINANCIAL REFERENCES****FINANCIAL STATEMENTS**

I/We agree, if required, to furnish an audited copy of the latest set of financial statements together with my/our Directors' and Auditors' report for consideration by the Employer.

**DETAILS OF TENDERING ENTITY'S BANK**

I/We hereby authorize the Employer/Engineer to approach all or any of the following banks for the purposes of obtaining a financial reference:

<b>DESCRIPTION OF BANK DETAIL</b>	<b>BANK DETAILS APPLICABLE TO TENDERER 'S HEAD OFFICE</b>
Name of bank	
Branch name	
Branch code	
Street address	
Postal address	
Name of manager	
Telephone number	(    )
Fax number	(    )
Account number	

**FORM 2.1.7 VARIATIONS IN RATE OF EXCHANGE**

Variations in rate of exchange from the time of tender (base rate of exchange) to time of order shall be carried by the Municipality. The base exchange rate of foreign currencies shall be fixed to the rate as published by **FNB**, the client’s bank, as the weighted average of the banks’ daily rates at approximately 10h30 am the day before the tender closes.

The following list of items shall be subjected to variations in the exchange rate:

- New complete pumps
- New complete electrical motors
- New variable frequency drives & Soft starters
- New instrumentation
- Items proposed by the Tenderer to be included\*:
  - .....
  - .....
  - .....
  - .....

\* Note: The Employer will evaluate the items proposed by the Tenderer and the Employer must formally accept the additional items to be included in the list of items on which ROE is applicable, otherwise it will not be included.

The base rate of exchange to the following foreign currencies shall be used when calculating the increase / decrease of the imported equipment. 90% of the material price of the applicable line item shall be deemed as the supplier cost on which the variation in ROE is applicable.

Currency	Rate of exchange in ZAR
US Dollar	
Pound Sterling	
Euro	
Japanese Yen	
Other:	
Other:	

Note: Bidders must submit proof of the SARB rate(s) of exchange used as published by the South African Reserve Bank.

**FORM 2.1.8                    DECLARATION: CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT**

**Note: All certificates and forms shall be signed to submit a valid tender. However, since this is a tender for rates, the list of equipment in the Schedule of Prices are provisional. Once an order is placed by the Employer, for a piece of equipment that fall within the categories below, the appointed Tenderer shall submit the applicable forms for the specific equipment in the order. However, at tender stage, the Tenderer shall submit an exemption letter issued by the DTI for all equipment that the Tenderer offer that does not comply with the local content requirements due to availability.**

This Municipal Bidding Document (MBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

**1. General Conditions**

- 1.1. Preferential Procurement Regulations, 2011 (Regulation 9) makes provision for the promotion of local production and content.
- 1.2. Regulation 9.(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

- x        is the imported content in Rand  
y        is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as required in paragraph 4.1 below.

**The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.**

- 1.6. A bid may be disqualified if –

- (a) this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation; and
- (b) the bidder fails to declare that the Local Content Declaration Templates (Annex C, D and E) have been audited and certified as correct.

**2. Definitions**

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;
- 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
- 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility(close corporation, partnership or individual).
- 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour and intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7. **“local content”** means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9. **“sub-contract”** means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.

**3. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
Large Bore Spiral Submerged Arc Welded Steel Conveyance Pipes, Pipe Fittings and Specials	100 %
Electrical Cable Products – All Cables	90%
Pumps, MV Motors and Associated Accessories – All Pumps	70 %
Steel Products and Components for Construction	100 %
Valve Products and Actuators – All Valves	70 %

- 4. Does any portion of the services, works or goods offered have any imported content?  
(Tick applicable box)

YES		NO	
-----	--	----	--

- 4.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by the SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on [www.reservebank.co.za](http://www.reservebank.co.za).

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

5. Were the Local Content Declaration Templates (Annex C, D and E) audited and certified as correct?  
(Tick applicable box)

YES		NO	
-----	--	----	--

- 5.1. If yes, provide the following particulars:

- (a) Full name of auditor: .....
- (b) Practice number: .....
- (c) Telephone and cell number: .....
- (d) Email address: .....

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

6. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the Accounting Officer / Accounting Authority provide directives in this regard.

**LOCAL CONTENT DECLARATION :**

**(REFER TO ANNEX B OF SATS 1286:2011)**

**LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

**BID NO.** \_\_\_\_\_

**ISSUED BY:** (Procurement Authority / Name of Institution): GEORGE MUNICIPALTY

NB

1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on [http://www.thdti.gov.za/industrial\\_development/ip.jsp](http://www.thdti.gov.za/industrial_development/ip.jsp). Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, ..... (full names),  
do hereby declare, in my capacity as .....  
of .....(name of bidder entity), the  
following:

The facts contained herein are within my own personal knowledge.

I have satisfied myself that:

the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and

The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

**If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.**

**The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.**

I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that

are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

**SIGNATURE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**WITNESS No. 1** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**WITNESS No. 2** \_\_\_\_\_

**DATE:** \_\_\_\_\_

<b>ANNEXURE C</b>	<b>SATS 1286:2011</b>
<b>Local Content Declaration – Summary Schedule :</b>	

<b>(C1) Tender No.</b>			
<b>(C2) Tender Description</b>			
<b>(C3) Designated product(s)</b>			
<b>(C4) Tender Authority</b>			
<b>(C5) Name of Tendering Entity</b>			
<b>(C6) Tender Exchange Rate</b>	<b>Currency</b>		<b>Rate</b>
<b>(C7) Specified local content %</b>			

NOTE: VAT to be excluded from all calculations

		Calculation of local content						Tender summary			
Tender Item No's	List of Items	Tender Price – each	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Quantity	Total tender value	Total exempted imported content	Total imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
<b>(C20) Total tender value</b>											
<b>(C21) Total Exempt imported content</b>											
<b>(C22) Total Tender value net of exempt imported content</b>											
<b>(C23) Total Imported content</b>											
<b>(C24) Total local content</b>											
<b>(C25) Average local content % of tender</b>											

\_\_\_\_\_  
SIGNATURE OF TENDERER AS PER LOCAL CONTENT DECLARATION

\_\_\_\_\_  
DATE

<b>ANNEXURE D</b>	<b>SATS 1286.2011</b>
<b>Imported Content Declaration – Supporting Schedule to Annexure C : Pumps, Medium Voltage (MV) Motors And Associated Accessories</b>	

<i>(D1)</i>	Tender No.					<b>NOTE: VAT to be excluded from all calculations</b>
<i>(D2)</i>	Tender Description					
<i>(D3)</i>	Designated product(s)					
<i>(D4)</i>	Tender Authority					
<i>(D5)</i>	Tendering Entity's Name					
<i>(D6)</i>	Tender Exchange Rate	Currency		Rate		

A. Exempted imported content				Calculation of imported content					
Tender item no's	Description of imported content	Local supplier	Overseas supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entity	All locally incurred landing costs & duties	Total landed cost
<i>(D7)</i>	<i>(D8)</i>	<i>(D9)</i>	<i>(D10)</i>	<i>(D11)</i>	<i>(D12)</i>	<i>(D13)</i>	<i>(D14)</i>	<i>(D15)</i>	<i>(D16)</i>

Summary	
Tender Quantity	Exempted imported value
<i>(D17)</i>	<i>(D18)</i>

*(D19)* Total exempt imported value

This total must correspond with Annex C – C21
---

B. Imported directly by the Tenderer				Calculation of imported content					
Tender item no's	Description of imported content	Unit of measure	Overseas supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entity	All locally incurred landing costs & duties	Total landed cost
<i>(D20)</i>	<i>(D21)</i>	<i>(D22)</i>	<i>(D23)</i>	<i>(D24)</i>	<i>(D25)</i>	<i>(D26)</i>	<i>(D27)</i>	<i>(D28)</i>	<i>(D29)</i>

Summary	
Tender Quantity	Total imported value
<i>(D30)</i>	<i>(D31)</i>

*(D32)* Total imported value by tenderer

ANNEXURE D - continued

SATS 1286.2011

Imported Content Declaration – Supporting Schedule to Annexure C : : Pumps, Medium Voltage (MV) Motors And Associated Accessories

NOTE: VAT to be excluded from all calculations

C. Imported by a 3 <sup>rd</sup> party and supplied to the Tenderer				Calculation of imported content					
Description of imported content	Unit of measure	Local supplier	Overseas supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entity	All locally incurred landing costs & duties	Total landed cost
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D426)

Summary	
Quantity imported	Total imported value
(D43)	(D44)

(D45) Total imported value by 3<sup>rd</sup> party

D. Other foreign currency payments			Calculation of imported content	
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender rate of exchange
(D46)	(D47)	(D48)	(D49)	(D50)

Summary of Payments	
Local value of payments	
(D51)	

(D52) Total of foreign currency payments declared by tenderer and/or 3<sup>rd</sup> party

(D53) Total of imported content and foreign currency payments – (D32), D45) and D52) above

SIGNATURE OF TENDERER AS PER LOCAL CONTENT DECLARATION

This total must correspond with Annex C – (C23)

DATE

Annex E

**Local Content Declaration – Supporting Schedule to Annex C : : Pumps, Medium Voltage (MV) Motors And Associated Accessories**

(E1)	Tender No.:		Note: VAT to be excluded from all calculations
(E2)	Tender description:		
(E3)	Designated products:		
(E4)	Tender Authority:		
(E5)	Tendering Entity name:		

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	E6	(E7)	(E8)
	(E9) Total local products (Goods, Services and Works)		R

(E10)	Manpower costs	(Tenderer's manpower cost)	R
(E11)	Factory overheads	(Rental, depreciation & amortisation, utility costs, consumables etc.)	R
(E12)	Administration overheads and mark-up	(Marketing, insurance, financing, interest etc.)	R
		(E13) Total local content	R

This total must correspond with Annex C – C24

**Signature of tenderer from Annex B**

Date: \_\_\_\_\_



Private Bag X84, PRETORIA, 0001, **the dti** Campus, 77 Meintjies Street, Sunnyside, 0002, Tel: (012) 394 0000 **the dti**  
Customer Contact Centre local: 0861 843 384 International: +27 12 394 9500, www.thedti.gov.za

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## Guidance Document for the Calculation of Local Content

### 1. DEFINITIONS

Unless explicitly provided in this guideline, the definitions given in SATS 1286:2011 apply.

### 2. GENERAL

#### 2.1. Introduction

This guideline provides tenderers with a detailed description of how to calculate local content of products (goods, services and works) by components/material/services and enables them to keep an updated record for verification requirements as per the SATS 1286:2011 Annexure A and B.

The guideline consists of two parts, namely:

- a written guideline; and
- three declarations that must be completed:
  - Declaration C: "Local Content Declaration – Summary Schedule" (see Annexure C);
  - Declaration D: "Imported Content Declaration – Supporting Schedule to Annex C" (see Annexure D); and
  - Declaration E: "Local Content Declaration – Supporting Schedule to Annex C" (see Annexure E).

The guidelines and declarations should be used by tenderers when preparing a tender. A tenderer must complete Declarations D and E, and consolidate the information on Declaration C.

Annexure C must be submitted with the tender by the closing date and time as determined by the Tender Authority. The Tender Authority reserves the right to request that Declarations D and E also be submitted.

If the tender is successful, the tenderer must continuously update Declarations C, D and E with actual values for the duration of the contract.

#### NOTE:

Annexure A is a note to the purchaser in SATS 1286:2011; and  
Annexure B is the Local Content Declaration IN SATS 1286:2011.

**2.2. What is local content?**

According to SATS 1286:2011, the local content of a product is the tender price less the value of imported content, expressed as a percentage. It is, therefore, necessary to first compute the imported value of a product to determine the local content of a product.

**2.3. Categories: Imported and Local Content**

The tenderer must differentiate between imported content and local content.

Imported content of a product by components/material/services is separated into two categories, namely:

- products imported directly by the tenderer; and
- products imported by a third party and supplied to the tenderer.

**2.3.1. Imported Content**

Identify the imported content, if any, by value for products by component/material/services. In the case of components/materials/services sourced from a South African manufacturer, agent, supplier or subcontractor (i.e. third party), obtain that information and Declaration D from the third party.

Calculate the imported content of components/materials/services to be used in the manufacture of the total quantity of the products for which the tender is to be submitted.

As stated in clause 3.2.4 of SATS 1286:2011: "If information on the origin of components, parts or materials is not available, it will be deemed to be imported content."

**2.3.1.1. Imported directly by the tenderer:**

When the tenderer import products directly, the onus is on the tenderer to provide evidence of any components/materials/services that were procured from a non-domestic source. The evidence should be verifiable and pertain to the tender as a whole. Typical evidence will include commercial invoices, bills of entry, etc.

When the tenderer procures imported services such as project management, design, testing, marketing, etc. and makes royalty and lease payments, such payments relating to the tender must be included when calculating imported content.

**2.3.1.2. Imported by a third party and supplied to the tenderer:**

When the tenderer supplies components/material/services that are imported by any third party (for example, a domestic manufacturer, agent, supplier or subcontractor in the supply chain), the onus is on the tenderer to obtain verifiable evidence from the third party.

The tenderer must obtain Declaration D from all third parties for the related tender. The third party must be requested by the tenderer to continuously update Declaration D. Typical evidence of imported content will include commercial invoices, bills of entry etc.

When a third party procures imported services such as project management, design, testing, marketing etc. and makes royalty and lease payments, such payments relating to the tender must be included when calculating imported content.

2.3.1.3. Exempt Imported Content:

Exemptions, if any, are granted by the Department of Trade and Industry (**the dti**). Evidence of the exemptions must be provided and included in Annexure D.

**2.3.2. Local Content**

Identify and calculate the local content, by value for products by components/materials/services to be used in the manufacture of the total quantity of the products.

**3. ANNEXURE C**

**3.1. Guidelines for completing Annexure C: Local Content Declaration – Summary Schedule**

*Note: The paragraph numbers correspond to the numbers in Annexure C.*

**C1. Tender Number**

Supply the tender number that is specified on the specific tender documentation.

**C2. Tender description**

Supply the tender description that is specified on the specific tender documentation.

**C3. Designated products**

Supply the details of the products that are designated in terms of this tender (i.e. buses).

**C4. Tender Authority**

Supply the name of the tender authority.

**C5. Tendering Entity name**

Provide the tendering entity name (for example, Unibody Bus Builders (Pty) Ltd).

**C6. Tender Exchange Rate**

Provide the exchange rate used for this tender, as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MDB) 6.2.

**C7. Specified local content %**

Provide the specified minimum local content requirement for the tender (i.e. 80%), as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MDB) 6.2.

**C8. Tender item number**

Provide the tender item number(s) of the products that have a local content requirement as per the tender specification.

**C9. List of items**

Provide a list of the item(s) corresponding with the tender item number.

This may be a short description or a brand name.

**Calculation of local content**

**C10. Tender price**

Provide the unit tender price of each item excluding VAT.

**C11. Exempted imported content**

Provide the ZAR value of the exempted imported content for each item, if applicable. These value(s) must correspond with the value(s) of column D16 on Annexure D.

**C12. Tender value net of exempted imported content**

Provide the net tender value of the item, if applicable, by deducting the exempted imported content (C11) from the tender price (C10).

**C13. Imported value**

Provide the ZAR value of the items' imported content.

**C14. Local value**

Provide the local value of the item by deducting the Imported value (C13) from the net tender value (C12).

**C15. Local content percentage (per item)**

Provide the local content percentage of the item(s) by dividing the local value (C14) by the net tender value (C12) as per the local content formula in SATS 1286.

**Tender Summary****C16. Tender quantity**

Provide the tender quantity for each item number as per the tender specification.

**C17. Total tender value**

Provide the total tender value by multiplying the tender quantity (C16) by the tender price (C10).

**C18. Total exempted imported content**

Provide the total exempted imported content by multiplying the tender quantity (C16) by the exempted imported content (C11). These values must correspond with the values of column D18 on Annexure D.

**C19. Total imported content**

Provide the total imported content of each item by multiplying the tender quantity (C16) by the imported value (C13).

**C20. Total tender value**

Total tender value is the sum of the values in column C17.

**C21. Total exempted imported content**

Total exempted imported content is the sum of the values in column C18. This value must correspond with the value of D19 on Annexure D.

**C22. Total tender value net of exempted imported content**

The total tender value net of exempt imported content is the total tender value (C20) less the total exempted imported content (C21).

**C23. Total imported content**

Total imported content is the sum of the values in column C19. This value must correspond with the value of D53 on Annexure D.

**C24. Total local content**

Total local content is the total tender value net of exempted imported content (C22) less the total imported content (C23). This value must correspond with the value of E13 on Annexure E.

**C25. Average local content percentage of tender**

The average local content percentage of tender is calculated by dividing total local content (C24) by the total tender value net of exempted imported content (C22).

## 4. ANNEXURE D

## 4.1. Guidelines for completing Annexure D: “Imported Content Declaration – Supporting Schedule to Annexure C”

*Note: The paragraph numbers correspond to the numbers in Annexure D.*

- D1. Tender number**  
Supply the tender number that is specified on the specific tender documentation.
- D2. Tender description**  
Supply the tender description that is specified on the specific tender documentation.
- D3. Designated products**  
Supply the details of the products that are designated in terms of this tender (i.e. buses).
- D4. Tender authority**  
Supply the name of the tender authority.
- D5. Tendering entity name**  
Provide the tendering entity name (i.e. Unibody Bus Builders (Pty) Ltd).
- D6. Tender exchange rate**  
Provide the exchange rate used for this tender, as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

**Table A. Exempted Imported Content**

- D7. Tender item number**  
Provide the tender item number(s) of the product(s) that have imported content.
- D8. Description of imported content**  
Provide a list of the exempted imported product(s), if any, as specified in the tender.
- D9. Local supplier**  
Provide the name of the local supplier(s) supplying the imported product(s).
- D10. Overseas supplier**  
Provide the name(s) of the overseas supplier(s) supplying the exempted imported product(s).
- D11. Imported value as per commercial invoice**  
Provide the foreign currency value of the exempted imported product(s) disclosed in the commercial invoice accepted by the South African Revenue Service (SARS).
- D12. Tender exchange rate**  
Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.
- D13. Local value of imports**  
Convert the value of the exempted imported content as per commercial invoice (D11) into the ZAR value by using the tender exchange rate (D12) disclosed in the tender documentation.
- D14. Freight costs to port of entry**  
Provide the freight costs to the South African Port of the exempted imported item.
- D15. All locally incurred landing costs and duties**  
Provide all landing costs including customs and excise duty for the exempted imported product(s) as stipulated in the SATS 1286:2011.

**D16. Total landed costs excl VAT**

Provide the total landed costs (excluding VAT) for each item imported by adding the corresponding item values in columns D13, D14 and D15. These values must be transferred to column C11 on Annexure C.

**D17. Tender quantity**

Provide the tender quantity of the exempted imported products as per the tender specification.

**D18. Exempted imported value**

Provide the imported value for each of the exempted imported product(s) by multiplying the total landed cost (excl. VAT) (D16) by the tender quantity (D17). The values in column D18 must correspond with the values of column C18 of Annexure C.

**D19. Total exempted imported value**

The total exempted imported value is the sum of the values in column D18. This total must correspond with the value of C21 on Annexure C.

**Table B. Imported Directly By Tenderer****D20. Tender item numbers**

Provide the tender item number(s) of the product(s) that have imported content.

**D21. Description of imported content:**

Provide a list of the product(s) imported directly by tender as specified in the tender documentation.

**D22. Unit of measure**

Provide the unit of measure for the product(s) imported directly by the tenderer.

**D23. Overseas supplier**

Provide the name(s) of the overseas supplier(s) supplying the imported product(s).

**D24. Imported value as per commercial invoice**

Provide the foreign currency value of the product(s) imported directly by tenderer disclosed in the commercial invoice accepted by the South African Revenue Service (SARS).

**D25. Tender rate of exchange**

Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

**D26. Local value of imports**

Convert the value of the product(s) imported directly by the tenderer as per commercial invoice (D24) into the ZAR value by using the tender exchange rate (D25) disclosed in the tender documentation.

**D27. Freight costs to port of entry**

Provide the freight costs to the South African Port of the product(s) imported directly by the tenderer.

**D28. All locally incurred landing costs and duties**

Provide all landing costs including customs and excise duty for the product(s) imported directly by the tenderer as stipulated in the SATS 1286:2011.

**D29. Total landed costs excl VAT**

Provide the total landed costs (excluding VAT) for each item imported directly by the tenderer by adding the corresponding item values in columns D26, D27 and D28.

**D30. Tender quantity**

Provide the tender quantity of the product(s) imported directly by the tenderer as per the tender specification.

**D31. Total imported value**

Provide the total imported value for each of the product(s) imported directly by the tenderer by multiplying the total landed cost (excl. VAT) (D29) by the tender quantity (D30).

**D32. Total imported value by tenderer**

The total value of imports by the tenderer is the sum of the values in column D31.

**Table C. Imported by Third Party and Supplied to the Tenderer****D33. Description of imported content**

Provide a list of the product(s) imported by the third party and supplied to the tenderer as specified in the tender documentation.

**D34. Unit of measure**

Provide the unit of measure for the product(s) imported by the third party and supplied to tenderer as disclosed in the commercial invoice.

**D35. Local supplier**

Provide the name of the local supplier(s) supplying the imported product(s).

**D36. Overseas supplier**

Provide the name(s) of the overseas supplier(s) supplying the imported products.

**D37. Imported value as per commercial invoice**

Provide the foreign currency value of the product(s) imported by the third party and supplied to the tenderer disclosed in the commercial invoice accepted by SARS.

**D38. Tender rate of exchange**

Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

**D39. Local value of imports**

Convert the value of the product(s) imported by the third party as per commercial invoice (D37) into the ZAR value by using the tender exchange rate (D38) disclosed in the tender documentation.

**D40. Freight costs to port of entry**

Provide the freight costs to the South African Port of the product(s) imported by third party and supplied to the tenderer.

**D41. All locally incurred landing costs and duties**

Provide all landing costs including customs and excise duty for the product(s) imported by third party and supplied to the tenderer as stipulated in the SATS 1286:2011.

**D42. Total landed costs excluding VAT**

Provide the total landed costs (excluding VAT) for each product imported by third party and supplied to the tenderer by adding the corresponding item values in columns D39, D40 and D41.

**D43. Quantity imported**

Provide the quantity of each product(s) imported by third party and supplied to the tenderer for the tender.

**D44. Total imported value**

Provide the total imported value of the product(s) imported by third party and supplied to the tenderer by multiplying the total landed cost (D42) by the quantity imported (D43).

**D45. Total imported value by third party**

The total imported value from the third party is the sum of the values in column D44.

**Table D. Other Foreign Currency Payments**

**D46. Type of payment**

Provide the type of foreign currency payment. (i.e. royalty payment for use of patent, annual licence fee, etc).

**D47. Local supplier making the payment**

Provide the name of the local supplier making the payment.

**D48. Overseas beneficiary**

Provide the name of the overseas beneficiary.

**D49. Foreign currency value paid**

Provide the value of the listed payment(s) in their foreign currency.

**D50. Tender rate of exchange**

Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

**D51. Local value of payments**

Provide the local value of each payment by multiplying the foreign currency value paid (D49) by the tender rate of exchange (D50).

**D52. Total of foreign currency payments declared by tenderer and/or third party**

The total of foreign currency payments declared by tenderer and/or a third party is the sum of the values in column D51.

**D53. Total of imported content and foreign currency payment**

The total imported content and foreign currency payment is the sum of the values in column D32, D45 and D52. This value must correspond with the value of C23 on Annexure C.

**5. ANNEXURE E****5.1. Guidelines to completing Annexure E: "Local Content Declaration- Supporting Schedule to Annexure C"**

*The paragraph numbers correspond to the numbers in Annexure E*

**E1. Tender number**

Supply the tender number that is specified on the specific tender documentation.

**E2. Tender description**

Supply the tender description that is specified on the specific tender documentation.

**E3. Designated products**

Supply the details of the products that are designated in terms of this tender (for example, buses/canned vegetables).

**E4. Tender authority**

Supply the name of the tender authority.

**E5. Tendering entity name**

Provide the tendering entity name (for example, Unibody Bus Builders (Pty) Ltd).

**Local Goods, Services and Works****E6. Description of items purchased**

Provide a description of the items purchased locally in the space provided.

**E7. Local supplier**

Provide the name of the local supplier that corresponds to the item listed in column E6.

**E8. Value**

Provide the total value of the item purchased in column E6.

**E9. Total local products (Goods, Services and Works)**

Total local products (goods, services and works) is the sum of the values in E8.

**E10. Manpower costs:**

Provide the total of all the labour costs accruing only to the tenderer (i.e. not the suppliers to tenderer).

**E11. Factory overheads:**

Provide the total of all the factory overheads including rental, depreciation and amortisation for local and imported capital goods, utility costs and consumables. (Consumables are goods used by individuals and businesses that must be replaced regularly because they wear out or are used up. Consumables can also be defined as the components of an end product that are used up or permanently altered in the process of manufacturing, such as basic chemicals.)

**E12. Administration overheads and mark-up:**

Provide the total of all the administration overheads, including marketing, insurance, financing, interest and mark-up costs.

**E13. Total local content:**

The total local content is the sum of the values of E9, E10, E11 and E12. This total must correspond with C24 of Annexure C.

**FORM 2.1.9 DATA SHEETS**

ALL DATA SHEETS TO BE COMPLETED WITH SUBMISSION (Applicable Only for Tendering on Category C3D – Mechanical and Electrical Services)

**PART A – MECHANICAL**

**1. DATA SHEET FOR PUMPS: SUBMERSIBLE SEWAGE:**

- 1.1. Manufacturer .....
- 1.2. Model Range: .....
- 1.3. Impeller type: .....
- 1.4. Pumps offered for specified nominal duty points:

Specified Nominal duty close to BEP	Model Number	Actual BEP duty point on pump curve (full impeller)	Rated Motor sizing [kW]]
9 l/s @ 10 m		..... l/s @ .....m	kW
11 l/s @ 12 m		..... l/s @ .....m	kW
20 l/s @ 6 m		..... l/s @ .....m	kW
19 l/s @ 7 m		..... l/s @ .....m	kW
20 l/s @ 4.5 m		..... l/s @ .....m	kW
12 l/s @ 40 m		..... l/s @ .....m	kW
12 l/s @ 15m		..... l/s @ .....m	kW
24 l/s @ 9 m		..... l/s @ .....m	kW
30 l/s @ 10 m		..... l/s @ .....m	kW
20 l/s @ 17.5 m		..... l/s @ .....m	kW
22 l/s @ 22 m		..... l/s @ .....m	kW
22 l/s @ 7 m		..... l/s @ .....m	kW
25 l/s @ 13.5 m		..... l/s @ .....m	kW
25 l/s @ 29 m		..... l/s @ .....m	kW
28 l/s @ 40 m		..... l/s @ .....m	kW

30 l/s @ 70 m		..... l/s @ .....m	kW
50 l/s @ 45 m		..... l/s @ .....m	kW
50 l/s @ 30 m		..... l/s @ .....m	kW

**2. DATA SHEET FOR PUMPS: SELF-PRIMING SEWAGE:**

- 2.1. Manufacturer.....
- 2.2. Model Range:.....
- 2.3. Pumps offered for specified nominal duty points:

Specified Nominal duty close to BEP	Model Number	Actual BEP duty point on pump curve (full impeller)	Rated Motor sizing [kW]]
24 l/s @ 28 m		..... l/s @ .....m	kW
36 l/s @ 29 m		..... l/s @ .....m	kW
70 l/s @ 24 m		..... l/s @ .....m	kW
120 l/s @ 24 m		..... l/s @ .....m	kW
20 l/s @ 4.5 m		..... l/s @ .....m	kW
180 l/s @ 30 m		..... l/s @ .....m	kW

**3. DATA SHEET FOR ELECTRICAL MOTORS – TEFC**

- 3.1. Manufacturer.....
- 3.2. Class of insulation.....
- 3.3. Type of winding over-temperature protection device.....
- 3.4. Voltage.....

**4. DATA SHEET FOR NON-RETURN VALVES**

- 4.1. Manufacturer.....
- 4.2. Make and model number.....
- 4.3. Material of body.....
- 4.4. Maximum working pressure.....
- 4.5. Test pressure.....

4.6. Nominal diameter.....

4.7. Door and shaft material .....

**5. DATA SHEET FOR GATE VALVES**

5.1. Manufacturer.....

5.2. Make and model number .....

5.3. Material of body .....

5.4. Material of gate .....

5.5. Maximum working pressure.....

5.6. Nominal diameter.....

**6. DATA SHEET FOR AIR-RELEASE VALVES : WATER**

6.1. Manufacturer.....

6.2. Make and model number .....

6.3. Material of body .....

6.4. Maximum working pressure.....

6.5. Test pressure .....

**7. DATA SHEET FOR AIR-RELEASE VALVES : SEWAGE**

7.1. Manufacturer.....

7.2. Make and model number .....

7.3. Material of body .....

7.4. Maximum working pressure.....

7.5. Test pressure .....

**8. DATA SHEET FOR CHAIN HOIST**

8.1. Manufacturer.....

8.2. Make and model number .....

8.3. Material of body .....

8.4. Material of chain.....

**PART B – ELECTRICAL, CONTROL AND INSTRUMENTATION**

**1. LOW VOLTAGE**

**1.1. MOTOR CONTROL CENTRES (MCCs)**

1. MCC dimensions (l x w x h), height to include stand height

1.1. General 2-Starter outdoor MCC: .....

1.2. General 3-Starter outdoor MCC: .....

1.3. General 2-Starter indoor MCC: .....

1.4. General 3-Starter indoor MCC: .....

2. Will MCCs be in compliance to SANS 1973-1 and/or 1973-3? ..... YES / NO

3. State method of compliance .....

4. Name of steelwork/busbar manufacturer.....

5. Name and address of populator .....

5.1. If different entities in 4 and 5, confirm that all work carried out by 1.5 will comply strictly with the required OHS Act requirements (Note: this is a statement of legal compliance)  
YES/NO

6. Variable Frequency Controllers

6.1. Manufacturer and Model Number .....

6.2. Device provided with network capability? ..... YES / NO

6.3. Heating considerations included in MCC design? ..... YES / NO

7. Soft Starters

7.1. Manufacturer and Model Number .....

7.2. Device provided with network capability? ..... YES / NO

7.3. PFC Included where specified? ..... YES / NO

**1.2. INSTRUMENTATION**

**1.2.1. Ultrasonic Level Sensors and Controllers**

1. Manufacturer

.....  
.....

2. Place of manufacture

.....

- .....
- 3. Sensor model number  
.....  
.....
- 4. Minimum of 2 relays?..... YES / NO
- 5. Accuracy  
.....  
.....

**1.2.2. Electro-Magnetic Flow Meters**

- 1. Manufacturer  
.....  
.....
- 2. Place of manufacture  
.....  
.....
- 3. Meter model number  
.....  
.....
- 4. Accuracy  
.....  
.....
- 5. Devices provided with network communication?..... YES / NO
- 6. Lining suited to specific applications? ..... YES / NO

**1.2.3. Pressure Sensors**

- 1. Manufacturer  
.....  
.....
- 2. Place of manufacture  
.....

.....  
3. Sensor model number

.....  
.....  
4. Measuring range

.....  
.....  
5. Accuracy

**1.2.4. Pressure Switches (Pumps)**

1. Manufacturer

.....  
.....  
2. Place of manufacture

.....  
.....  
3. Unit model number

.....  
.....  
4. Measuring range

**2. CONTROL SYSTEM INTEGRATION**

**2.1. PLCs**

1. Manufacturer (Name)

.....  
.....

2. Model and Series

.....  
.....

3. Other technical detail

.....  
.....

4. Spare capacity allowance provided? ..... YES / NO

5. Other technical detail

.....  
.....

**2.2. UPS**

1. Manufacturer (Name)

.....  
.....

2. Series Model

.....  
.....

3. Rating KVA

.....  
.....

4. Other technical detail

.....  
.....

**2.3. HMIs**

1. Manufacturer (Name)

.....  
.....

2. Series Model

.....  
.....

3. Other technical detail

.....  
.....

**2.4. GSM Commander**

1. Manufacturer (Name)

.....  
.....

2. Series Model

.....  
.....

3. Other technical detail

.....  
.....

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-  
HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Other Documents Required For Tender Evaluation  
Purposes (Part T2.2)**

- |            |   |
|------------|---|
| Form 2.2.1 | Certificate of Tenderer's Attendance at the Compulsory Information Session                    |
| Form 2.2.2 | Written Proof of Tenderers registration at the Construction Industry Development Board (CIDB) |

**FORM 2.2.1 CERTIFICATE OF TENDERER'S ATTENDANCE AT THE COMPULSORY CLARIFICATION MEETING**

**NOTE - NOT APPLICABLE**

The Bidders Completion and signing of the Attendance Register Shall be used as Confirmation of Attendance at the Scope Specific Site Clarification Meeting.

**PLEASE NOTE:**

Tenderers are requested to submit the minutes received at compulsory information session/meeting for the Scope Specific Clarification Meeting with their Tender documents. (Non-submission of this information may lead to rejection of this Tender)

**FORM 2.2.2 PROOF OF REGISTRATION AT THE CONSTRUCTION INDUSTRY DEVELOPMENT BOARD (CIDB)**

The Tenderer is to affix to this page:

- Written proof of Tenderers registration at the CIDB

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-  
HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Returnable Schedules that will be Incorporated in  
the Contract (Part T2.3)**

Form 2.3.1

Record of Addenda to Tender Documents

**FORM 2.3.1 RECORD OF ADDENDA TO TENDER DOCUMENTS**

We confirm that the following communications received from the Employer before the submission of this Tender offer, amending the Tender documents, have been taken into account in this Tender offer:

	<b>Date</b>	<b>Title or Details</b>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Attach additional pages if more space is required.

Signed: ..... Date: .....

Name: ..... Position: .....

SIGNED ON BEHALF OF TENDERER: .....

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-  
HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**The Contract (Part C)**

Part C1	Agreement and Contract Data
Part C2	Pricing Data
Part C3	Scope of Works
Part C4	PPPFA Requirements
Part C5	Health and Safety Specification
Part C6	Drawings

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER  
AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF  
VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3)  
YEARS**

**Agreement And Contract Data (Part C1)**

- Part C1.1 Form of Offer and Acceptance
- Part C1.2 Contract Data
- Part C1.3 Objections and Complainants Form
- Part C1.4 Form of Professional Indemnity Insurance

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Form of Offer and Acceptance (Part C1.1A)  
(AGREEMENT) OFFER**

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS: LANDSCAPING, GRASS CUTTING AND SITE CLEANING**

I/We Mr/Mrs/Messrs \_\_\_\_\_ duly assigned to represent the service provider for the purpose of this tender, hereby tender to supply all or any of the goods and/or render all or any of the services described in the attached documents to the George Municipality on terms and conditions stipulated in this tender and in accordance with the specifications stipulated in the tender documents (which shall be taken as part of, and incorporated into this tender) **at the prices / rates reflected in the Pricing Schedules/Sections.**

I/we agree that this offer shall remain valid for a period of 90 days commencing from the closing date and time of this tender.

I/we further agree that:

This tender and its acceptance shall be subject to the terms and conditions contained in the George Municipality's Supply Chain Management Policy;

If I/we withdraw my/our tender within the period for which I/we have agreed that the tender shall remain open for acceptance, or fail to fulfill the contract when called upon to do so, the George Municipality may, without prejudice to its other rights, agree to the withdrawal of my/our tender or cancel the contract that may have been entered into between me/us and the George Municipality and I/we will then pay to the George Municipality any additional expense incurred by the George Municipality having either to accept any less favorable tender or, if fresh tenders have to be invited, the additional expenditure incurred by the invitation by the invitation of fresh tenders and by the subsequent acceptance of any less favorable tender; the George Municipality shall also have the right to recover such additional expenditure by set-off against moneys which may be due or become due to me/us under this or any other tender or contract or against any guarantee or deposit that may have been furnished by me/us or on my/our behalf for the due fulfillment of this or any other tender or contract and pending the ascertainment of the amount of such additional expenditure or retain such moneys, guarantee or deposit as security for any loss the George Municipality may sustain by reason of my/our default;

If my/our tender is accepted the acceptance may be communicated to me/us by letter or order by certified mail or registered mail. Such posting shall be deemed to be proper service of such notice with effect from the date of posting/dispatch of such notice;

The law of the Republic of South Africa shall govern the contract created by the acceptance of my/our tender and that I/we choose domicilium citandi et executandi in the Republic of South Africa, where any and all legal notices may be served at (full street address on this place):

Physical Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I/we furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our tender; that the price(s) and rate(s) tendered cover all the work/item(s) specified in the tender documents and that the price(s) and rate(s) cover all my/our obligations under a resulting contract and that I/we accept that any mistakes regarding price(s) and calculations will be at my/our own risk.

I/we hereby accept full responsibility for the proper execution and fulfillment of all obligations and conditions devolving on me/us under this agreement as the Principal(s) liable for the due fulfillment of this contract.

I/we agree that any action arising from this contract may in all respects be instituted against me/us and I/we hereby undertake to satisfy fully any sentence or judgement which may be pronounced against me/us as a result of such action.

I/we declare that I/we have participation / no participation in the submission of any other offer for the supplies/services described in the attached documents. If in the affirmative, state name(s) of tenders involved.

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**This form must be completed and signed to be considered provisionally responsive.**

**ACCEPTANCE**

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Service Provider the amount due in accordance with the, Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement, between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in

- Part C1 Agreements and Contract Data  
(which includes this Form of Offer and Acceptance)
- Part C2 Bill of Quantities
- Part C3 Scope of Work
- Part C4 PPPFA Requirements
- Part C5 Health and Safety Specification
- Part C6 Drawings
- Annexures

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C3 above.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, contact the Employer's representative (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the, Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

Signature: \_\_\_\_\_

Name **RR WESSO**

Capacity **DIRECTOR: CIVIL ENGINEERING SERVICES**

**GEORGE MUNICIPALITY  
CIVIC CENTRE  
YORK STREET  
GEORGE**

**SCHEDULE OF DEVIATIONS**

The extent of deviations from the tender documents issued by the employer before the tender closing date is limited to those permitted in terms of the conditions of tender.

A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents, and which it is agreed by the parties becomes an obligation of the contract, shall also be recorded here.

Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the contract.

- 1. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 2. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 3. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 4. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 5. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 6. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 7. Subject \_\_\_\_\_  
Details \_\_\_\_\_

By the duly authorized representatives signing this schedule of deviations, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

**FOR THE TENDERER:**

Signature(s)

Name(s)

Capacity

\_\_\_\_\_  
(Name and address of organisation)

**FOR THE EMPLOYER:**

Signature: \_\_\_\_\_

Name **RR WESSO**

Capacity **DIRECTOR: CIVIL ENGINEERING SERVICES**

**GEORGE MUNICIPALITY  
CIVIC CENTRE  
YORK STREET  
GEORGE**

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Form of Offer and Acceptance (Part C1.1B)  
(AGREEMENT) OFFER**

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER  
INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A  
PERIOD OF THREE (3) YEARS: SEWER SUCTION AND RELATED SERVICES**

I/We Mr/Mrs/Messrs \_\_\_\_\_ duly assigned to represent the service provider for the purpose of this tender, hereby tender to supply all or any of the goods and/or render all or any of the services described in the attached documents to the George Municipality on terms and conditions stipulated in this tender and in accordance with the specifications stipulated in the tender documents (which shall be taken as part of, and incorporated into this tender) **at the prices / rates reflected in the Pricing Schedules/Sections.**

I/we agree that this offer shall remain valid for a period of 90 days commencing from the closing date and time of this tender.

I/we further agree that:

This tender and its acceptance shall be subject to the terms and conditions contained in the George Municipality's Supply Chain Management Policy;

If I/we withdraw my/our tender within the period for which I/we have agreed that the tender shall remain open for acceptance, or fail to fulfill the contract when called upon to do so, the George Municipality may, without prejudice to its other rights, agree to the withdrawal of my/our tender or cancel the contract that may have been entered into between me/us and the George Municipality and I/we will then pay to the George Municipality any additional expense incurred by the George Municipality having either to accept any less favorable tender or, if fresh tenders have to be invited, the additional expenditure incurred by the invitation by the invitation of fresh tenders and by the subsequent acceptance of any less favorable tender; the George Municipality shall also have the right to recover such additional expenditure by set-off against moneys which may be due or become due to me/us under this or any other tender or contract or against any guarantee or deposit that may have been furnished by me/us or on my/our behalf for the due fulfillment of this or any other tender or contract and pending the ascertainment of the amount of such additional expenditure or retain such moneys, guarantee or deposit as security for any loss the George Municipality may sustain by reason of my/our default;

If my/our tender is accepted the acceptance may be communicated to me/us by letter or order by certified mail or registered mail. Such posting shall be deemed to be proper service of such notice with effect from the date of posting/dispatch of such notice;

The law of the Republic of South Africa shall govern the contract created by the acceptance of my/our tender and that I/we choose domicilium citandi et executandi in the Republic of South Africa, where any and all legal notices may be served at (full street address on this place):

Physical Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I/we furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our tender; that the price(s) and rate(s) tendered cover all the work/item(s) specified in the tender documents and that the price(s) and rate(s) cover all my/our obligations under a resulting contract and that I/we accept that any mistakes regarding price(s) and calculations will be at my/our own risk.

I/we hereby accept full responsibility for the proper execution and fulfillment of all obligations and conditions devolving on me/us under this agreement as the Principal(s) liable for the due fulfillment of this contract.

I/we agree that any action arising from this contract may in all respects be instituted against me/us and I/we hereby undertake to satisfy fully any sentence or judgement which may be pronounced against me/us as a result of such action.

I/we declare that I/we have participation / no participation in the submission of any other offer for the supplies/services described in the attached documents. If in the affirmative, state name(s) of tenders involved.

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**This form must be completed and signed to be considered provisionally responsive.**

**ACCEPTANCE**

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Service Provider the amount due in accordance with the, Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement, between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in

- Part C1 Agreements and Contract Data  
(which includes this Form of Offer and Acceptance)
- Part C2 Bill of Quantities
- Part C3 Scope of Work
- Part C4 PPPFA Requirements
- Part C5 Health and Safety Specification
- Part C6 Drawings
- Annexures

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C3 above.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, contact the Employer's representative (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the, Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

Signature: \_\_\_\_\_

Name **RR WESSO**

Capacity **DIRECTOR: CIVIL ENGINEERING SERVICES**

**GEORGE MUNICIPALITY  
CIVIC CENTRE  
YORK STREET  
GEORGE**

**SCHEDULE OF DEVIATIONS**

The extent of deviations from the tender documents issued by the employer before the tender closing date is limited to those permitted in terms of the conditions of tender.

A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents, and which it is agreed by the parties becomes an obligation of the contract, shall also be recorded here.

Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the contract.

- 1. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 2. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 3. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 4. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 5. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 6. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 7. Subject \_\_\_\_\_  
Details \_\_\_\_\_

By the duly authorized representatives signing this schedule of deviations, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

**FOR THE TENDERER:**

Signature(s)

Name(s)

Capacity

\_\_\_\_\_  
(Name and address of organisation)

**FOR THE EMPLOYER:**

Signature: \_\_\_\_\_

Name **RR WESSO**

Capacity **DIRECTOR: CIVIL ENGINEERING SERVICES**

**GEORGE MUNICIPALITY  
CIVIC CENTRE  
YORK STREET  
GEORGE**

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Form of Offer and Acceptance (Part C1.1C)  
(AGREEMENT) OFFER**

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER  
INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A  
PERIOD OF THREE (3) YEARS: MINOR CIVIL WORKS**

I/We Mr/Mrs/Messrs \_\_\_\_\_ duly assigned to represent the service provider for the purpose of this tender, hereby tender to supply all or any of the goods and/or render all or any of the services described in the attached documents to the George Municipality on terms and conditions stipulated in this tender and in accordance with the specifications stipulated in the tender documents (which shall be taken as part of, and incorporated into this tender) **at the prices / rates reflected in the Pricing Schedules/Sections.**

I/we agree that this offer shall remain valid for a period of 90 days commencing from the closing date and time of this tender.

I/we further agree that:

This tender and its acceptance shall be subject to the terms and conditions contained in the George Municipality's Supply Chain Management Policy;

If I/we withdraw my/our tender within the period for which I/we have agreed that the tender shall remain open for acceptance, or fail to fulfill the contract when called upon to do so, the George Municipality may, without prejudice to its other rights, agree to the withdrawal of my/our tender or cancel the contract that may have been entered into between me/us and the George Municipality and I/we will then pay to the George Municipality any additional expense incurred by the George Municipality having either to accept any less favorable tender or, if fresh tenders have to be invited, the additional expenditure incurred by the invitation by the invitation of fresh tenders and by the subsequent acceptance of any less favorable tender; the George Municipality shall also have the right to recover such additional expenditure by set-off against moneys which may be due or become due to me/us under this or any other tender or contract or against any guarantee or deposit that may have been furnished by me/us or on my/our behalf for the due fulfillment of this or any other tender or contract and pending the ascertainment of the amount of such additional expenditure or retain such moneys, guarantee or deposit as security for any loss the George Municipality may sustain by reason of my/our default;

If my/our tender is accepted the acceptance may be communicated to me/us by letter or order by certified mail or registered mail. Such posting shall be deemed to be proper service of such notice with effect from the date of posting/dispatch of such notice;

The law of the Republic of South Africa shall govern the contract created by the acceptance of my/our tender and that I/we choose domicilium citandi et executandi in the Republic of South Africa, where any and all legal notices may be served at (full street address on this place):

Physical Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I/we furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our tender; that the price(s) and rate(s) tendered cover all the work/item(s) specified in the tender documents and that the price(s) and rate(s) cover all my/our obligations under a resulting contract and that I/we accept that any mistakes regarding price(s) and calculations will be at my/our own risk.

I/we hereby accept full responsibility for the proper execution and fulfillment of all obligations and conditions devolving on me/us under this agreement as the Principal(s) liable for the due fulfillment of this contract.

I/we agree that any action arising from this contract may in all respects be instituted against me/us and I/we hereby undertake to satisfy fully any sentence or judgement which may be pronounced against me/us as a result of such action.

I/we declare that I/we have participation / no participation in the submission of any other offer for the supplies/services described in the attached documents. If in the affirmative, state name(s) of tenders involved.

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**This form must be completed and signed to be considered provisionally responsive.**

**ACCEPTANCE**

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Service Provider the amount due in accordance with the, Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement, between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in

- Part C1 Agreements and Contract Data  
(which includes this Form of Offer and Acceptance)
- Part C2 Bill of Quantities
- Part C3 Scope of Work
- Part C4 PPPFA Requirements
- Part C5 Health and Safety Specification
- Part C6 Drawings
- Annexures

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C3 above.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, contact the Employer's representative (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the, Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

Signature: \_\_\_\_\_

Name **RR WESSO**

Capacity **DIRECTOR: CIVIL ENGINEERING SERVICES**

**GEORGE MUNICIPALITY  
CIVIC CENTRE  
YORK STREET  
GEORGE**

**SCHEDULE OF DEVIATIONS**

The extent of deviations from the tender documents issued by the employer before the tender closing date is limited to those permitted in terms of the conditions of tender.

A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents, and which it is agreed by the parties becomes an obligation of the contract, shall also be recorded here.

Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the contract.

- 1. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 2. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 3. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 4. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 5. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 6. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 7. Subject \_\_\_\_\_  
Details \_\_\_\_\_

By the duly authorized representatives signing this schedule of deviations, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

**FOR THE TENDERER:**

Signature(s)

Name(s)

Capacity

\_\_\_\_\_  
(Name and address of organisation)

**FOR THE EMPLOYER:**

Signature: \_\_\_\_\_

Name **RR WESSO**

Capacity **DIRECTOR: CIVIL ENGINEERING SERVICES**

**GEORGE MUNICIPALITY  
CIVIC CENTRE  
YORK STREET  
GEORGE**

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Form of Offer and Acceptance (Part C1.1D)  
(AGREEMENT) OFFER**

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER  
INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A  
PERIOD OF THREE (3) YEARS: MECHANICAL AND ELECTRICAL SERVICES**

I/We Mr/Mrs/Messrs \_\_\_\_\_ duly assigned to represent the service provider for the purpose of this tender, hereby tender to supply all or any of the goods and/or render all or any of the services described in the attached documents to the George Municipality on terms and conditions stipulated in this tender and in accordance with the specifications stipulated in the tender documents (which shall be taken as part of, and incorporated into this tender) **at the prices / rates reflected in the Pricing Schedules/Sections.**

I/we agree that this offer shall remain valid for a period of 90 days commencing from the closing date and time of this tender.

I/we further agree that:

This tender and its acceptance shall be subject to the terms and conditions contained in the George Municipality's Supply Chain Management Policy;

If I/we withdraw my/our tender within the period for which I/we have agreed that the tender shall remain open for acceptance, or fail to fulfill the contract when called upon to do so, the George Municipality may, without prejudice to its other rights, agree to the withdrawal of my/our tender or cancel the contract that may have been entered into between me/us and the George Municipality and I/we will then pay to the George Municipality any additional expense incurred by the George Municipality having either to accept any less favorable tender or, if fresh tenders have to be invited, the additional expenditure incurred by the invitation by the invitation of fresh tenders and by the subsequent acceptance of any less favorable tender; the George Municipality shall also have the right to recover such additional expenditure by set-off against moneys which may be due or become due to me/us under this or any other tender or contract or against any guarantee or deposit that may have been furnished by me/us or on my/our behalf for the due fulfillment of this or any other tender or contract and pending the ascertainment of the amount of such additional expenditure or retain such moneys, guarantee or deposit as security for any loss the George Municipality may sustain by reason of my/our default;

If my/our tender is accepted the acceptance may be communicated to me/us by letter or order by certified mail or registered mail. Such posting shall be deemed to be proper service of such notice with effect from the date of posting/dispatch of such notice;

The law of the Republic of South Africa shall govern the contract created by the acceptance of my/our tender and that I/we choose domicilium citandi et executandi in the Republic of South Africa, where any and all legal notices may be served at (full street address on this place):

Physical Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I/we furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our tender; that the price(s) and rate(s) tendered cover all the work/item(s) specified in the tender documents and that the price(s) and rate(s) cover all my/our obligations under a resulting contract and that I/we accept that any mistakes regarding price(s) and calculations will be at my/our own risk.

I/we hereby accept full responsibility for the proper execution and fulfillment of all obligations and conditions devolving on me/us under this agreement as the Principal(s) liable for the due fulfillment of this contract.

I/we agree that any action arising from this contract may in all respects be instituted against me/us and I/we hereby undertake to satisfy fully any sentence or judgement which may be pronounced against me/us as a result of such action.

I/we declare that I/we have participation / no participation in the submission of any other offer for the supplies/services described in the attached documents. If in the affirmative, state name(s) of tenders involved.

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**This form must be completed and signed to be considered provisionally responsive.**

**ACCEPTANCE**

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Service Provider the amount due in accordance with the, Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement, between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in

- Part C1 Agreements and Contract Data  
(which includes this Form of Offer and Acceptance)
- Part C2 Bill of Quantities
- Part C3 Scope of Work
- Part C4 PPPFA Requirements
- Part C5 Health and Safety Specification
- Part C6 Drawings
- Annexures

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C3 above.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, contact the Employer's representative (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the, Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

Signature: \_\_\_\_\_

Name **RR WESSO**

Capacity **DIRECTOR: CIVIL ENGINEERING SERVICES**

**GEORGE MUNICIPALITY  
CIVIC CENTRE  
YORK STREET  
GEORGE**

**SCHEDULE OF DEVIATIONS**

The extent of deviations from the tender documents issued by the employer before the tender closing date is limited to those permitted in terms of the conditions of tender.

A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents, and which it is agreed by the parties becomes an obligation of the contract, shall also be recorded here.

Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the contract.

- 1. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 2. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 3. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 4. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 5. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 6. Subject \_\_\_\_\_  
Details \_\_\_\_\_
- 7. Subject \_\_\_\_\_  
Details \_\_\_\_\_

By the duly authorized representatives signing this schedule of deviations, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

**FOR THE TENDERER:**

Signature(s)

Name(s)

Capacity

\_\_\_\_\_  
(Name and address of organisation)

**FOR THE EMPLOYER:**

Signature: \_\_\_\_\_

Name **RR WESSO**

Capacity **DIRECTOR: CIVIL ENGINEERING SERVICES**

**GEORGE MUNICIPALITY  
CIVIC CENTRE  
YORK STREET  
GEORGE**

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Contract Data (Part C1.2)**

**C1.2.1 GENERAL CONDITIONS OF CONTRACT**

(National Treasury - General Conditions of Contract (revised July 2010))

**TABLE OF CLAUSES**

1. Definitions
2. Application
3. General
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5. Use of contract documents and information; inspection
6. Patent rights
7. Performance security
8. Inspections, tests and analysis
9. Packing
10. Delivery and documents
11. Insurance
12. Transportation
13. Incidental services
14. Spare parts
15. Warranty
16. Payment
17. Prices
18. Contract amendments
19. Assignment
20. Subcontracts
21. Delays in the supplier's performance
22. Penalties
23. Termination for default
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25. Force majeure
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27. Settlement of disputes
28. Limitation of liability
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31. Notices
32. Taxes and duties
33. National Industrial Participation Programme (NIPP)
34. Prohibition of restrictive practices

**1. Definitions**

1. The following terms shall be interpreted as indicated:

- 1.1 'Closing time' means the date and hour specified in the bidding documents for the receipt of bids.

- 1.2 'Contract' means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- 1.3 'Contract price' means the price payable to the supplier under the contract for the full and proper performance of his or her contractual obligations.
- 1.4 'Corrupt practice' means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- 1.5 'Countervailing duties' are imposed in cases in which an enterprise abroad is subsidised by its government and encouraged to market its products internationally.
- 1.6 'Country of origin' means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognised new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7 'Day' means calendar day.
- 1.8 'Delivery' means delivery in compliance with the conditions of the contract or order.
- 1.9 'Delivery ex stock' means immediate delivery directly from stock actually on hand.
- 1.10 'Delivery into consignee's store or to his site' means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
- 1.11 'Dumping' occurs when a private enterprise abroad markets its goods on its own initiative in the RSA at lower prices than that of the country of origin, and which action has the potential to harm the local industries in the RSA.
- 1.12 'Force majeure' means an event beyond the control of the supplier, not involving the supplier's fault or negligence, and not foreseeable. Such events may include, but are not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 'Fraudulent practice' means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 'GCC' means the General Conditions of Contract.
- 1.15 'Goods' means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 'Imported content' means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 'Local content' means that portion of the bidding price which is not included in the imported content, provided that local manufacture does take place.

- 1.18 'Manufacture' means the production of products in a factory using labour, materials, components and machinery, and includes other, related value-adding activities.
- 1.19 'Order' means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 'Project site', where applicable, means the place indicated in bidding documents.
- 1.21 'Purchaser' means the organisation purchasing the goods.
- 1.22 'Republic' means the Republic of South Africa.
- 1.23 'SCC' means the Special Conditions of Contract.
- 1.24 'Services' means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance, and other such obligations of the supplier covered under the contract.
- 1.25 'Written' or 'in writing' means handwritten in ink or any form of electronic or mechanical writing.

**2. Application**

- 2.1 These general conditions are applicable to all bids, contracts and orders, including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.
- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

**3. General**

- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable, a non-refundable fee for documents may be charged.
- 3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from [www.treasury.gov.za](http://www.treasury.gov.za).

**4. Standards**

- 4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

**5. Use of contract documents and information; inspection.**

- 5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for the purposes of such performance.
- 5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1, except for purposes of performing the contract.

- 5.3 Any document, other than the contract itself, mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.
- 5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

**6. Patent rights**

- 6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from the use of the goods or any part thereof by the purchaser.

**7. Performance Security**

- 7.1 Within 30 (thirty) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in the SCC.
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3 The performance security shall be denominated in the currency of the contract or in a freely convertible currency acceptable to the purchaser, and shall be in one of the following forms:
- a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
  - b) a cashier's or certified cheque.
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than 30 (thirty) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in the SCC.

**8. Inspections, tests and analyses**

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organisation acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention of such is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.

- 8.7 Any contract supplies may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier, who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal, the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of the GCC.

**9. Packing**

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in the SCC, and in any subsequent instructions ordered by the purchaser.

**10. Delivery and documents**

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in the SCC.
- 10.2 Documents to be submitted by the supplier are specified in the SCC.

**11. Insurance**

- 11.1 The goods supplied under the contract shall be fully insured, in a freely convertible currency, against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

**12. Transportation**

- 12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

**13. Incidental Services**

- 13.1 The supplier may be required to provide any or all of the following services, including additional services (if any) specified in the SCC:
- (a) performance or supervision of on-site assembly, and/or commissioning of the supplied goods;
  - (b) furnishing of tools required for the assembly and/or maintenance of the supplied goods;
  - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
  - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
  - (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

**14. Spare parts**

14.1 As specified in the SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- (b) in the event of termination of production of the spare parts:
  - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
  - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

**15. Warranty**

a. The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications), or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for 12 (twelve) months after the goods, or any portion thereof, as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for 18 (eighteen) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in the SCC.

15.3 The purchaser shall notify the supplier promptly, in writing, of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in the SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in the SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

**16. Payment**

16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in the SCC.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of any other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than 30 (thirty) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand unless otherwise stipulated in the SCC.

**17. Prices**

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices tendered by the supplier in his bid, with the exception of any price adjustments authorized in the SCC or in the purchaser's request for bid validity extension, as the case may be.

**18. Contract Amendments**

18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

**19. Assignment**

19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

**20. Subcontracts**

20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

**21. Delays in the supplier's performance**

21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.

21.2 If at any time during the performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his or her discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.

21.4 The right is reserved to procure, outside of the contract, small quantities of supplies; or to have minor essential services executed if an emergency arises, or the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.

21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and, without prejudice to his other rights, be entitled to claim damages from the supplier.

**22. Penalties**

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services, using the current prime interest rate, calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

**23. Termination for default**

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
- (b) if the supplier fails to perform any other obligation(s) under the contract; or
- (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than 14 (fourteen) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated 14 (fourteen) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

23.5 Any restriction imposed on any person by the Accounting Officer/Authority will, at the discretion of the Accounting Officer/Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person is or was, in the opinion of the Accounting Officer/Authority, actively associated.

23.6 If a restriction is imposed, the purchaser must, within 5 (five) working days of such imposition, furnish the National Treasury with the following information:

- (i) the name and address of the supplier and/or person restricted by the purchaser;
- (ii) the date of commencement of the restriction;
- (iii) the period of restriction; and
- (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period of not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction, and each case will be

dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

**24. Anti-dumping and countervailing duties and rights**

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidised import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall, on demand, be paid forthwith by the contractor to the State, or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he or she delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him or her.

**25. Force majeure**

25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if, and to the extent that, his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.

25.2 If a force majeure situation arises, the supplier shall notify the purchaser promptly, in writing, of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

**26. Termination for insolvency**

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

**27. Settlement of Disputes**

27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve such dispute or difference amicably, by mutual consultation.

27.2 If, after 30 (thirty) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.

27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.

27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

27.5 Notwithstanding any reference to mediation and/or court proceedings herein,  
(a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and  
(b) the purchaser shall pay the supplier any monies due to the supplier.

**28. Limitation of Liability**

- 28.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to Clause 6:
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and
  - (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

**29. Governing language**

- 29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

**30. Applicable Law**

- 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in the SCC.

**31. Notices**

- 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail, and any other notice to him shall be posted by ordinary mail, to the address furnished in his bid or to the address notified later by him in writing; and such posting shall be deemed to be proper service of such notice.
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

**32. Taxes and Duties**

- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, licence fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, licence fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

**33. National Industrial Participation (NIP) Programme**

- 33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.

**34 Prohibition of Restrictive practices**

- 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act, Act 89 of 1998, as amended, an agreement between or concerted practice by firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder(s) is/are or a contractor(s) was/were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has/have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act, Act 89 of 1998.

34.3 If a bidder(s) or contractor(s) has/have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and/or terminate the contract in whole or part, and/or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding 10 (ten) years and/or claim damages from the bidder(s) or contractor(s) concerned.

**C1.2.2 SPECIAL CONDITIONS OF CONTRACT**

The following Special Conditions of Contract, referring to the National Treasury – Conditions of Contract (revised July 2010), are applicable to this Contract:

**NOTE: This contract is for goods and services on an AD HOC (When needed) basis only.**

**1. Definitions**

*Delete Clause 1.15 and substitute with the following*

- 1.15 The word 'Goods' is to be replaced everywhere it occurs in the GCC with the phrase 'Goods and / or Services' which means all of the equipment, machinery, materials, services, products, consumables, etc. that the supplier is required to deliver to the purchaser under the contract. This definition shall also be applicable, as the context requires, anywhere where the words "supplies" and "services" occurs in the GCC.

*Delete Clause 1.19 and substitute with the following*

- 1.19 The word 'Order' is to be replaced everywhere it occurs in the GCC with the words 'Purchase Order' which means the official purchase order authorised and released on the purchaser's ordering System and the date of the Purchase Order will be the contract commencement date

*Delete Clause 1.21 and substitute with the following:*

- 1.21 'Purchaser' means the **George Municipality**. The address of the Purchaser is **York Street, George, 6530**.

*Add the following after Clause 1.25:*

- 1.26 'Supplier' means any provider of goods and / or services with whom the contract is concluded, also referred to as Contractor or Service Provider.

**3. General Obligations**

*Delete Clause 3.2 in its entirety and replace with the following clauses.*

- 3.2 The parties will be liable to each other arising out of or in connection with any breach of the obligations detailed or implied in this contract, subject to clause 28.
- 3.3 All parties in a joint venture or consortium shall be jointly and severally liable to the purchaser in terms of this contract and shall carry individually the minimum levels of insurance stated in the contract, if any.
- 3.4 The parties shall comply with all laws, regulations and bylaws of local or other authorities having jurisdiction regarding the delivery of the goods and give all notices and pay all charges required by such authorities.
- 3.5 The **supplier** shall:
- 3.5.1 Arrange for the documents listed below to be provided to the Purchaser prior to the issuing of the order:
- a) Proof of Insurance (Refer to Clause 11) or Insurance Broker's Warrantee
  - b) Letter of good standing from the Compensation Commissioner, or a licensed compensation insurer (Refer to Clause 11)
  - c) Other requirements as detailed in the tender documents
- 3.5.2 Only when notified of the acceptance of the bid by the issuing of the order, the supplier shall commence with and carry out the delivery of the goods in accordance with the contract, to the satisfaction, of the purchaser

- 3.5.3 Provide all of the necessary materials, labour, plant and equipment required for the delivery of the goods including any temporary services that may be required
- 3.5.4 Insure his workmen and employees against death or injury arising out of the delivery of the goods
- 3.5.5 Be continuously represented during the delivery of the goods by a competent representative duly authorised to execute instructions;
- 3.5.6 In the event of a loss resulting in a claim against the insurance policies stated in clause 11, pay the first amount (excess) as required by the insurance policy
- 3.5.7 Comply with all written instructions from the purchaser subject to clause 18
- 3.5.8 Complete and deliver the goods within the period stated in clause 10, or any extensions thereof in terms of clause 21
- 3.5.9 Make good at his own expense all incomplete and defective goods during the warranty period
- 3.5.10 Pay to the purchaser any penalty for delay as due on demand by the purchaser. The supplier hereby consents to such amounts being deducted from any payment to the supplier.
- 3.5.11 Comply with the provisions of the OHAS Act & all relevant regulations.
- Special Compliance related to Covid 19 and related risks as indicated in the said specification in the Health and Safety Specifications
- 3.5.12 Comply with all laws relating to wages and conditions generally governing the employment of labour in the Cape Town area and any applicable Bargaining Council agreements.
- 3.5.13 Deliver the goods in accordance with the contract and with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards.
- 3.6 The **purchaser** shall:
- 3.6.1 Issue orders for the goods required under this Contract. No liability for payment will ensue for any work done if an official purchase order has not been issued to the supplier.
- 3.6.2 Make payment to the **supplier** for the goods as set out herein.
- 3.6.3 Take possession of the goods upon delivery by the supplier.
- 3.6.4 Regularly inspect the goods to establish that it is being delivered in compliance with the contract.
- 3.6.5 Give any instructions and/or explanations and/or variations to the supplier including any relevant advice to assist the supplier to understand the contract documents.
- 3.6.6 Grant or refuse any extension of time requested by the supplier to the period stated in clause 10.
- 3.6.7 Inspect the goods to determine if, in the opinion of the purchaser, it has been delivered in compliance with the contract, alternatively in such a state that it can be properly used for the purpose for which it was intended.
- 3.6.8 Brief the supplier and issue all documents, information, etc. in accordance with the contract.

**5. Use of contract documents and information; inspection, copyright, confidentiality, etc.**

*Add the following after clause 5.4:*

- 5.5 Copyright of all documents prepared by the supplier in accordance with the relevant provisions of the copyright Act (Act 98 of 1978) relating to contract shall be vested in the purchaser. Where copyright is vested in the supplier, the purchaser shall be entitled to use the documents or copy them only for the purposes for which they are intended in regard to the contract and need not obtain the supplier's permission to copy for such use. Where copyright is vested in the purchaser, the supplier shall not be liable in any way for the use of any of the information other than as originally intended for the contract and the purchaser hereby indemnifies the supplier against any claim which may be made against him by any party arising from the use of such documentation for other purposes.

The ownership of data and factual information collected by the supplier and paid for by the purchaser shall, after payment, vest with the purchaser

- 5.6 **Publicity and publication**  
The supplier shall not release public or media statements or publish material related to the services or contract within two (2) years of completion of the services without the written approval of the purchaser, which approval shall not be unreasonably withheld.
- 5.7 **Confidentiality**  
Both parties shall keep all information obtained by them in the context of the Contract confidential and shall not divulge it without the written approval of the other party.

## **7. Performance Security**

*Delete clauses 7.1 to 7.4 and replace with the following:*

No Performance Security will be applicable for any of the contracts

## **8. Inspections, tests and analyses**

*Delete Clause 8.2 and substitute with the following:*

- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the purchaser or an organisation acting on behalf of the purchaser.

## **10. Delivery and documents**

*Delete clauses 10.1 and 10.2 and replace with the following:*

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The time for delivery of the goods shall be the date as stated on the order.
- 10.2 The purchaser shall determine, in its sole discretion, whether the goods have been delivered in compliance with the contract, alternatively in such a state that it can be properly used for the purpose for which it was intended. When the purchaser determines that the goods have been satisfactorily delivered, the purchaser must issue an appropriate certification, or written approval, to that effect. Invoicing may only occur, and must be dated, on or after the date of acceptance of the goods.

## **11. Insurance**

*Add the following after clause 11.1:*

- 11.2 Without limiting the obligations of the supplier in terms of this contract, the supplier shall effect and maintain the following additional insurances:
- a) Public liability insurances, in the name of the supplier, covering the supplier and the

purchaser against liability for the death of or injury to any person, or loss of or damage to any property, arising out of or in the course of this Contract, in an amount not less than the following for any single claim;

- |   |          |                    |
|---|----------|--------------------|
| <b>1. Landscaping, Grass Cutting and Site Cleaning</b>          | <b>-</b> | <b>R5 Million</b>  |
| <b>2. Sewer Suction and Related Services</b>                    | <b>-</b> | <b>R20 Million</b> |
| <b>3. Minor Civil Works</b>                                     | <b>-</b> | <b>R10 Million</b> |
| <b>4. Mechanical and Electrical Refurbish &amp; Maintenance</b> | <b>-</b> | <b>R20 Million</b> |

- b) Motor Vehicle Liability Insurance, in respect of all vehicles owned and / or leased by the supplier, comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity;
- c) Registration / insurance in terms of the Compensation for Occupational Injuries and Disease Act, Act 130 of 1993. This can either take the form of a certified copy of a valid Letter of Good Standing issued by the Compensation Commissioner, or proof of insurance with a licenced compensation insurer, from either the bidder's broker or the insurance company itself (see **Proof of Insurance / Insurance Broker's Warranty** section in document for a pro forma version).

In the event of under insurance or the insurer's repudiation of any claim for whatever reason, the George Municipality will retain its right of recourse against the supplier.

11.3 The supplier shall be obliged to furnish the George Municipality with proof of such insurance as the George Municipality may require from time to time for the duration of this Contract. Evidence that the insurances have been effected in terms of this clause, shall be either in the form of an insurance broker's warranty worded precisely as per the pro forma version contained in the **Proof of Insurance / Insurance Broker's Warranty** section of the document or copies of the insurance policies.

**15. Warranty**

*Add to Clause 15.2:*

15.2 This warranty for this contract shall remain valid for **twelve (12) months** after the goods have been delivered.

**16. Payment**

*Delete Clause 16.1 in its entirety and replace with the following:*

16.1 A bi-monthly payment cycle will be the norm.

*Delete Clause 16.2 in its entirety and replace with the following:*

16.2 The supplier shall furnish the purchaser's Accounts Payable Department with an original tax invoice, clearly showing the amount due in respect of each and every claim for payment.

*Add the following after clause 16.4*

16.5 Notwithstanding any amount stated on the order, the supplier shall only be entitled to payment for goods actually delivered in terms of the Project Specification and/or Drawings, or any variations in accordance with clause 18. Any contingency sum included shall be for the sole use, and at the discretion, of the purchaser.

The George Municipality is not liable for payment of any invoice that pre-dates the date of delivery of the goods.

16.6 If requested, the purchaser will only make advanced payments to the supplier in strict compliance with the terms and details as contained on **Proforma Advanced Payment Guarantee**.

**17. Prices**

*Add the following after clause 17.1*

17.2 The prices for the goods delivered and services performed shall be subject to contract price adjustment on each anniversary of the date of contract commencement and the following conditions will be applicable:

**17. Prices**

*Add the following after clause 17.1*

17.2 The prices for the goods delivered and services performed shall be subject to contract price adjustment on each anniversary of the date of contract commencement and the following conditions will be applicable:

**17.2.1 Price Schedule: Labour and Material (Mechanical and Electrical)**

For the purpose of this Sub-Clause, Preliminary and General items are included with Labour and material for the sake of convenience, and which otherwise have no relationship with each other.

Variations in the cost of labour and material shall be based on the indices published by the Steel and Engineering Industries Federation of South Africa (SEIFSA) using the method described below.

The following SEIFSA tables shall be regarded as relevant to Mechanical and Electrical Works in this Contract:

Method of Price Adjustment

(a) The estimated proportions (represented by the coefficients “b” and “c” in the formulae in sub-paragraph (b) below) of the total values shall be adjusted on the basis of the increase or decrease between the indices in the relevant tables at the Base Date (the date 7 days prior to the closing date for the submission of the Tender) and the latest available indices at the recalculation date of all rates. These rates which are stated on the Price Schedule shall be adjusted on each anniversary of the date of contract commencement (recalculation date).

The following SEIFSA **tables** shall be regarded as relevant to Mechanical and Electrical Works in this Contract:

- Table C3 – Index of actual labour cost
- Table G - Statistics SA - production price index, Mechanical and Electrical Engineering Materials, as applicable
- Table E - EX Merchant Steel Price Index, Hot Rolled Sheets

The applicable **Formula** for Mechanical and Electrical Plant and Material is:

$$A = \left( a + b \frac{Ln}{Lo} + c \frac{Mn}{Mo} + d \frac{En}{Eo} + e \frac{Sn}{So} \right) - 1$$

Where,

- A – Adjustment Factor (rounded to 6<sup>th</sup> decimal)
- a – 0.15 (Fixed coefficient)

b -	0.15	}	Coefficients (sum equal to 0.85)
c -	0.35		
d -	0.20		
e -	0.15		
Ln -	Current labour index in Table C3		
Lo -	Base labour index in Table C3		
Mn -	Current mechanical engineering materials index in Table G		
Mo -	Base mechanical engineering materials index in Table G		
En -	Current electrical engineering materials index in Table G		
Eo -	Base electrical engineering materials index in Table G		
Sn -	Current steel price index in Table G		
So -	Base steel price index in Table G		

“**Current**” indices are those applicable 42 days prior to date of claim  
 “**Base**” indices are those applicable at Base Date, as stated in 1.1.3.1

**17.2.4 Price Schedule: Labour and Material (Minor Civil Works)**

Escalation shall be applied per work package according to the following formula and applied to tender rates:

$$(1-x)(0.25 \times Lt/Lo + 0.3 \times Pt/Po + 0.35 \times Mt/Mo + 0.1 \times Ft/Fo - 1)$$

CPAF indices as published will be utilized will be applied. CPAF indices for August 2020 will used as base rate.

**17.2.5 Price Schedule: Labour and Material (Other Services)**

Escalation shall be applied per work package according to the following formula and applied to tender rates:

$$(1-x)(0.25 \times Lt/Lo + 0.3 \times Pt/Po + 0.35 \times Mt/Mo + 0.1 \times Ft/Fo - 1)$$

CPAF indices as published will be utilized will be applied. CPAF indices for August 2020 will used as base rate.

17.3 If price adjustment for variations in the cost of plant and materials imported from outside of South Africa is provided for in the contract, such adjustment shall be based on the information contained on the schedule titled “**Price Basis for Imported Resources**” and as below. For the purposes of this clause the Rand value of imported Plant and Materials inserted on the schedule titled “**Price Basis for Imported Resources**” (column (F)) shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate quoted by **GM’s** main banker, FNB, on the Base Date (seven calendar days before tender closing date) rounded to the second decimal place (column(B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D) and (E)).

17.3.1 Adjustment for variations in rates of exchange:

- (a) The value in foreign currency inserted in column (A) shall be subject to clause (h) below when recalculating the Rand value.
- (b) The rate of exchange inserted in column (B) shall be the closing spot selling rate quoted by George Municipality’s main banker, FNB, on the Base Date, rounded to the second decimal place, subject to sub-paragraph (c) below.
- (c) If the rate of exchange inserted by the Tenderer differs from the FNB rate referred to above, then the FNB rate shall apply and the Rand value in columns (C) and (F) shall be recalculated accordingly, without altering the price in the Price Schedule for the relevant items.

(d) If a tender from a supplier or sub-contractor provides for variations in rates of exchange, the Supplier may **only** claim for variations in rates of exchange if he binds the supplier or sub-contractor to the same provision to take out forward cover as described in sub-paragraph (e) below.

(e) The Supplier (or sub-contractor) shall within five working days from the date of placing a firm order on an overseas supplier, cover or recover forward by way of a contract with a bank which is an authorised foreign exchange dealer, the foreign exchange component of the cost of any imported Plant and Materials inserted by the Tenderer on the scheduled titled "**Price Basis for Imported Resources**".

(f) When the Supplier (or sub-contractor) so obtains forward cover, the Supplier shall immediately notify the GM of the rate obtained and furnish the GM with a copy of the foreign exchange contract note.

(g) Based on the evidence provided in sub-paragraph (f) above, the value in Rand inserted in column (C) of on the schedule titled "**Price Basis for Imported Resources**" shall be recalculated using the forward cover rate obtained, and any increase or decrease in the Rand value defined in this clause shall be adjusted accordingly, subject to sub-paragraph (h) below.

(h) The adjustments shall be calculated upon the value in foreign currency in the Supplier's (or sub-contractor's) **forward cover contract**, provided that, should this value exceed the value in foreign currency inserted in column (A) of on the schedule titled "**Price Basis for Imported Resources**", then the value in column (A) shall be used.

17.3.2 Adjustment for variation in labour and material Costs

If the prices for imported Plant and Materials are not fixed, the Supplier shall in his Tender specify the formula for calculating Contract Price Adjustments normally used in the country of manufacture and the indices and relative proportions of labour and material on which his Tender prices are based. Evidence of the indices applicable shall be provided with each claim. The indices applicable 42 days before contractual dispatch date from the factory will be used for the purposes of Contract Price Adjustment.

Failure to specify a formula in the Tender shall mean that the prices are fixed or shall be deemed to be fixed.

**18. Contract Amendments**

*Delete the heading of clause 18 and replace with the following:*

**18. Contract Amendments and Variations**

*Add the following to clause 18.1:*

Variations means changes to the goods or any extension of the duration of the contract that the purchaser issues to the supplier as instructions in writing, subject to prior approval by the purchaser's delegated authority as reflected on an authorised amended order. Should the supplier deliver any goods not described in a written instruction from the purchaser, such work will not become due and payable until amended order has been issued by the purchaser.

**21. Delays in the supplier's performance**

*Delete Clause 21.2 in its entirety and replace with the following:*

21.2 If at any time during the performance of the contract the supplier or its sub-contractors should encounter conditions beyond their reasonable control which impede the timely delivery of the goods, the supplier shall notify the purchaser in writing, within 7 Days of first having become aware of these conditions, of the facts of the delay, its cause(s) and its probable duration. As

soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation, and may at his discretion extend the time for delivery.

Where additional time is granted, the purchaser shall also determine whether or not the supplier is entitled to payment for additional costs in respect thereof. The principle to be applied in this regard is that where the purchaser or any of its agents are responsible for the delay, reasonable costs shall be paid. In respect of delays that were beyond the reasonable control of both the supplier and the purchaser, additional time only (no costs) will be granted.

The purchaser shall notify the supplier in writing of his decision(s) in the above regard.

21.3 No provision in a contract shall be deemed to prohibit the obtaining of goods from a national department, provincial department, or a local authority.

## **22. Penalties**

*Delete clause 22.1 and replace with the following:*

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum as stated herein for each day of the delay until actual delivery or performance.

The penalty for this/these contracts shall be **5%** of the **works package value per day**, unless otherwise indicated in the specifications per contract/services.

## **23. Termination for default**

*Delete the heading of clause 23 and replace with the following:*

## **23. Termination**

*Add the following to the end of clause 23.1:*

if the supplier fails to remedy the breach in terms of such notice, or  
Has more than 3 Non Performance Events as described in the general section per Scope of Works Section

*Add the following after clause 23.7:*

23.8 In addition to the grounds for termination due to default by the supplier, the contract may also be terminated:

23.8.1 Upon the death of the supplier who was a Sole Proprietor, or a sole member of a Close Corporation, in which case the contract will terminate forthwith.

23.8.2 The parties by mutual agreement terminate the contract.

23.8.3 If an Order has been issued incorrectly, or to the incorrect recipient, the resulting contract may be terminated by the purchaser by written notice

23.9 If the contract is terminated in terms of clause 23.8, all obligations that were due and enforceable prior to the date of the termination must be performed by the relevant party.

## **27. Settlement of Disputes**

*Amend clause 27.1 as follows:*

27.1 If any dispute or difference of any kind whatsoever, with the exception of termination in terms of clause 23.1(c), arises between the purchaser and the supplier in connection with or arising

out of the contract, the parties shall make every effort to resolve such dispute or difference amicably, by mutual consultation.

*Delete Clause 27.2 in its entirety and replace with the following:*

- 27.2 Should the parties fail to resolve any dispute by way of mutual consultation, either party shall be entitled to refer the matter for mediation before an independent and impartial person appointed by the City Manager in accordance with Regulation 50(1) of the Local Government: Municipal Finance Management Act, 56 of 2003 – Municipal Supply Chain Management Regulations (Notice 868 of 2005). Such referral shall be done by either party giving written notice to the other of its intention to commence with mediation. No mediation may be commenced unless such notice is given to the other party.

Irrespective whether the mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and share the costs of the mediator and related costs equally.

The mediator shall agree the procedures, representation and dates for the mediation process with the parties. The mediator may meet the parties together or individually to enable a settlement.

Where the parties reach settlement of the dispute or any part thereof, the mediator shall record such agreement and on signing thereof by the parties the agreement shall be final and binding.

Save for reference to any portion of any settlement or decision which has been agreed to be final and binding on the parties, no reference shall be made by or on behalf of either party in any subsequent court proceedings, to any outcome of an amicable settlement by mutual consultation, or the fact that any particular evidence was given, or to any submission, statement or admission made in the course of amicable settlement by mutual consultation or mediation.

## **28. Limitation of Liability**

*Delete clause 28.1 (b) and replace with the following:*

- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the sums insured in terms of clause 11 in respect of insurable events, or where no such amounts are stated, to an amount equal to twice the contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

*Add the following after clause 28.1:*

- 28.2 Without detracting from, and in addition to, any of the other indemnities in this contract, the supplier shall be solely liable for and hereby indemnifies and holds harmless the purchaser against all claims, charges, damages, costs, actions, liability, demands and/or proceedings and expense in connection with:
- a) personal injury or loss of life to any individual;
  - b) loss of or damage to property;

arising from, out of, or in connection with the performance by the supplier in terms of this Contract, save to the extent caused by the gross negligence or wilful misconduct of the purchaser.

- 28.3 The supplier and/or its employees, agents, concessionaires, suppliers, sub-contractors or customers shall not have any claim of any nature against the purchaser for any loss, damage, injury or death which any of them may directly or indirectly suffer, whether or not such loss, damages, injury or death is caused through negligence of the purchaser or its agents or employees.

- 28.4 Notwithstanding anything to the contrary contained in this Contract, under no circumstances whatsoever, including as a result of its negligent (including grossly negligent) acts or omissions or those of its servants, agents or contractors or other persons for whom in law it may be liable, shall any party or its servants (in whose favour this constitutes a *stipulatio alteri*) be liable for any indirect, extrinsic, special, penal, punitive, exemplary or consequential loss or damage of any kind whatsoever, whether or not the loss was actually foreseen or reasonably foreseeable), sustained by the other party, its directors and/or servants, including but not limited to any loss of profits, loss of operation time, corruption or loss of information and/or loss of contracts.
- 28.5 Each party agrees to waive all claims against the other insofar as the aggregate of compensation which might otherwise be payable exceeds the aforesaid maximum amounts payable.

**31. Notices**

*Delete clauses 31.1 and 31.2 and replace with the following:*

- 31.1 Any notice, request, consent, approvals or other communications made between the Parties pursuant to the Contract shall be in writing and forwarded to the addresses specified in the contract and may be given as set out hereunder and shall be deemed to have been received when:
- a) hand delivered – on the working day of delivery
  - b) sent by registered mail – five (5) working days after mailing
  - c) sent by email or telefax – one (1) working day after transmission

**32. Taxes and Duties**

***All rates tendered shall Exclude VAT.***

*Delete the final sentence of 32.3 and replace with the following:*

In this regard, it is the responsibility of the supplier to submit documentary evidence in the form of a valid Tax Clearance Certificate issued by SARS to the Employer.

*Add the following after clause 32.3:*

32.4 The **VAT registration** number of the George Municipality is \_\_\_\_\_.

**ADDITIONAL CONDITIONS OF CONTRACT**

*Add the following Clause after Clause 34:*

**34. Pump Workshop Facility**

In order to be considered for an appointment in terms of this tender, Service Provider must have a pump workshop facility in the George Municipal area, or within 30 days of notification of appointment, establish such workshop through which all communication with the employer will flow, and where the majority of work in terms of this tender will be carried out. Requirements of this workshop is indicated elsewhere in the bid document.

**PART 1: DATA PROVIDED BY THE EMPLOYER**

The following contract specific data are applicable to this Contract:

Clause 1	The Employer is the George Municipality.	
3.4 and 3.5	The Authorised and Designated representative of the Employer is:	
	Name: Randal van Staden (Project Manager)	
	The Employer's address for receipt of communications is:	
	Physical address: George Municipality York Street George, 6530	Postal address: George Municipality PO Box 19 George, 6530
	Telephone: (044) 801 9358	
	The Project is for various Maintenance and Refurbishment of Water and Wastewater Infrastructure: Appointment of various Ad Hoc Contractors for a period of three (3) years from date of appointment. 1. Landscaping, Grass Cutting and Site Cleaning 2. Sewer Suction and Related Services 3. Minor Civil Works 4. Mechanical and Electrical Services	
3.6	The Service Provider may release public or media statements or publish material related to the Services or Project subject to the approval of the Employer.	
3.7	The Services Provision shall be completed for the portions as set out in the Scope of Works.	
5.1.1 and 5.1.2	The Service Provider is required to provide the Service with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards. Where services include the powers to certify, decide or otherwise exercise discretion in regard to a contractor agreement between the Employer and others then the Service provider shall act in respect of that contract/agreement as an independent	
5.4.1	The Service Provider is required to provide the following insurances:	
	1. Insurance against	Contractors All Risk Public Liability Motor Vehicle Liability Insurance for all applicable vehicles Registration/Compensation for Occupational Injuries and Diseases as per the act of the Department of Labour for the Republic of South Africa
	Cover is:	Equivalent to the work package value
	Period of cover:	Duration of Project
	Deductibles are:	
5.5	The Service Provider is required to obtain the Employer's prior approval in writing before taking any of the following actions: 1. Appointing Sub-Contractors for the performance of any part of the Services.	
Additional Clause to be added 7.3	The Employer will not be responsible for any overtime worked by or overtime payments made to personnel, or any additional costs not specified in the tender submitted by the Tenderer.	
9.1	Copyright of documents prepared for the Project shall be vested with George Municipality.	
12.1	Settlement of disputes is to be in terms of Clause 49 and 50 of the Supply Chain Management Policy of the George Municipality. See Document C1.3.	
14	Where not specifically indicated, all tendered prices, rates, tariffs, fees, etcetera are to <b>EXCLUDE</b> 15% VAT.	

**PART 2: DATA PROVIDED BY THE SERVICE PROVIDER**

Clause		
5.1	The Service Provider is:	
5.3	The authorized and designated representative of the Service Provider is:	
	Name:	
	The Service Provider's address for receipt of communications is	
	Physical address:	Postal address:
	Telephone:	
	Fax:	
	E-mail:	

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-  
HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Objections and Complainants Form (Part C1.3)**

(Section 1.11.15 of the George Municipality's Supply Chain Management Policy)

(1) Details of Objector/Complainant

Name: \_\_\_\_\_

Address: (postal and street): \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

---

Contact person: \_\_\_\_\_

Reference number of Tender : \_\_\_\_\_

Other Party's Details (If any)

Name: \_\_\_\_\_

Address: (postal and street): \_\_\_\_\_

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Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Contact person: \_\_\_\_\_

Reference number of Tender: \_\_\_\_\_

Description of Issue[s] in Dispute

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List of Documents Attached

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Determination Sought in Respect of Objection or Complaint

---

Form submitted by:

Name:

---

Signature:

---

Position:

---

Date:

---

Place:

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GEORGE MUNICIPALITY

DIRECTORATE: CIVIL ENGINEERING SERVICES

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TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS

Form of Certificate of Insurance

(Part C1.4)

The Tenderer must affix proof of Insurance to this page.

Note to Tenderer:

In the event of the Tenderer being a joint venture/consortium, the details of the individual members must also be provided.

The Tenderer shall provide the following details of this insurance cover:

- i) Name of Tenderer: .....
- ii) Period of Validity: .....
- iii) Value of Insurance:
  - Insurance for Works and Contractor's equipment
    - Company: .....
    - Value: .....
  - Insurance for Contractor's personnel
    - Company: .....
    - Value: .....
  - General public liability
    - Company: .....
    - Value: .....
  - SASRIA
    - Company: .....
    - Value: .....

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HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Pricing Data (Part C 2)**

C2.1 Pricing Instructions

C2.2 Bill of Quantities

## GEORGE MUNICIPALITY

## DIRECTORATE: CIVIL ENGINEERING SERVICES

TENDER NUMBER: T/ING/012/2020

TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-  
HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**Pricing Instructions (Part C2.1) – Applicable for all  
categories****C2.1 PRICING INSTRUCTIONS****PREAMBLE TO BILL OF QUANTITIES****General**

- 1 The Tender Data, the Contract Data, the Scope of the Work and the Site Information are to be read in conjunction with the Bill of Quantities.
  - a) The Bill of Quantities comprises items covering the Contractor's profit and costs of general liabilities and of construction of temporary and permanent Works.
  - b) The Tenderer is at liberty to insert a rate of his own choosing for each item in the Bill but his attention is drawn to the fact that the Contractor has the right, under various circumstances, to payment for additional works carried out and that the Employer is obliged to base their assessment of the rates to be paid for such additional work on the rates inserted in the Bill.
  - c) The measurement and payment clauses of each Specification, read together with the relevant clauses of the Specification Data, set out what ancillary or associated activities are included in the rate for the operations specified.
- 2 Descriptions in the Bill are abbreviated and must be read in conjunction with the measurement and payment clauses of the applicable Specifications.
- 3 Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste.
- 4 Except that they shall **NOT** include Value Added Tax (**VAT**), the prices and rates to be inserted in the Bill of Quantities are to be the full inclusive prices to the Employer for the work described under each item. Such prices shall cover all costs and expenses that may be required in and for the construction of the work described and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based.
- 5 A price or rate is to be entered against each item in the Bill of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to have a price or rate of R0,00.
- 6 The Tenderer must price each item under the specific tendered category

- 7 Where indicated as a Percentage (%), The contractor shall tender a percentage handling applicable for OEM or Other Items specifically not priced in the Bills of Quantities
- 8 Dayworks rates for travel and labour are to be used for “Special Projects” only and not part of the general service or scope of works.
- 9 For Scope of works rates, the unit rate measured shall include all travel and plant (for the round trip within the radius of 20km from central George, extra over for Haarlem/Uniondale), all labour, all consumables and material.
- 10 Where columns are “greyed out” the tenderer shall not include a rate, only the % Handling applicable.
- 11 Escalation shall be applied per annum, as indicated Special Contract Conditions  
  
CPAF and/or SEIFSA indices as published will be utilized will be applied. Indices for **January 2021** will used as base rate.

**MEASUREMENT AND PAYMENT**

The measurement and payment clauses of the SANS 1200 and/or otherwise indicated in the general sections of each category. Standardized Specifications and the Standard Specifications as amended or added to in Part C3., Specification Data, shall be deemed to form part of and be included in the Pricing Instructions.

**ALL RATES IN EVERY LINE AND COLUMN FOR EACH SECTION TENDERED FOR MUST BE FILLED IN, FAILURE TO DO SO MAY RESULT IN THE TENDERER BEING DISQUALIFIED.**

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**Schedule of Quantities (Part C2.2)**

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HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Schedule of Quantities (Part C2.2A) - LANDSCAPING,  
GRASS CUTTING AND SITE CLEANING**

Item	Ref	Description	Unit	Qty	Rate	Amount
	C3A	Allow for all costs and expenses with regards to the following Preliminary & General, Contractual and Health & Safety and Project Management requirements (Including All travel, plant and labour required within 20km Radius of George)				
<b>1</b>	1	<b>Preliminary and General</b>				
1.1		Contractor's all-risk and third party insurance (once off for all three years)	Sum	Total		
1.2		Compilation of a H&S Plan in compliance to the OHS Act (once off for all three years)	Sum	Total		
1.3		Compilation of a H&S File in compliance to the OHS Act(once off for all three years)	Sum	Total		
1.4		Compliance (management and implementation) to OHS Act during contract period (year one only)	Sum	Total		
<b>2</b>	1	<b>Dayworks Schedule</b>				
2.1		Foreman	Hr	1		
2.2		Lawnmower/Brushcutter Operator	Hr	1		
2.3		General Worker/Assistant	Hr	1		
2.4		Travelling/Transport Normal Time (07:30 to 17h00, Mon to Fri)				
2.4.1		LDV Local Trip (within 20km Radius of George)	Trip	1		
2.4.2		LDV Extra Over (For Uniondale/Haarlem)	Trip	1		
		<b>Scope of Services (Including All travel, plant, labour, disposal required with 20km Radius of George)</b>				
3	2.1	Mowing/Cutting of grass	m <sup>2</sup>	1		
4	2.2	Bush trimming and/or removal	m <sup>2</sup>	1		
5	2.3	Treating Areas with Herbicide	m <sup>2</sup>	1		
6	2.5	All inclusive rate for the removal and clearing of overgrown pipelines and removal of surplus material	m	1		



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HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Schedule of Quantities (Part C2.2B) – SEWER  
SUCTION AND RELATED SERVICES**

Item	Ref	Description	Unit	Qty	Rate	Amount
	C3B	Allow for all costs and expenses with regards to the following Preliminary & General, Contractual and Health & Safety and Project Management requirements (Including All travel, plant and labour required within 20km Radius of George)				
<b>1</b>	1	<b>Preliminary and General</b>				
1.1		Contractor's all-risk and third party insurance (once off for all three years)	Sum	Total		
1.2		Compilation of a H&S Plan in compliance to the OHS Act (once off for all three years)	Sum	Total		
1.3		Compilation of a H&S File in compliance to the OHS Act(once off for all three years)	Sum	Total		
1.4		Compliance (management and implementation) to OHS Act during contract period (year one only)	Sum	Total		
<b>2</b>	1	<b>Dayworks Schedule</b>				
2.1		Labour Rates: Normal Time (07h30 to 17h00, Mon to Fri)				
a		Vacuum Tanker Driver/Operator/Supervisor	Hr	1		
b		General Worker/Assistant	Hr	1		
2.2		Labour Rates: Normal Overtime (17h01 to 07h29, Mon to Fri, 00h00 to 23h59 Sat)				
a		Vacuum Tanker Driver/Operator/Supervisor	Hr	1		
b		General Worker/Assistant	Hr	1		
2.3		Labour Rates: Sunday and Public Holidays (00h00 to 23h59)				
a		Vacuum Tanker Driver/Operator/Supervisor	Hr	1		
b		General Worker/Assistant	Hr	1		
2.4		Travelling/Transport Normal Time (07:30 to 17h00, Mon to Fri)				
a		LDV Local Trip (within 20km Radius of George)	Trip	1		
b		LDV Extra Over (For Uniondale/Haarlem)	Trip	1		
c		Tipper Truck (within 20km Radius of George)	Trip	1		
d		Tipper Truck Extra Over (For Uniondale/Haarlem)	Trip	1		

Item	Ref	Description	Unit	Qty	Rate	Amount
e		Vacuum Tanker (within 20km Radius of George)	Trip	1		
f		Vacuum Tanker Extra Over (For Uniondale/Haarlem)	Trip	1		
2.5		Travelling/Transport Normal Overtime (17h01 to 07h29, Mon to Fri, 00h00 to 23h59 Sat)				
a		LDV Local Trip (within 20km Radius of George)	Trip	1		
b		LDV Extra Over (For Uniondale/Haarlem)	Trip	1		
c		Tipper Truck (within 20km Radius of George)	Trip	1		
d		Tipper Truck Extra Over (For Uniondale/Haarlem)	Trip	1		
e		Vacuum Tanker (within 20km Radius of George)	Trip	1		
f		Vacuum Tanker Extra Over (For Uniondale/Haarlem)	Trip	1		
2.6		Travelling/Transport Sunday and Public Holidays (00h00 to 23h59)				
a		LDV Local Trip (within 20km Radius of George)	Trip	1		
b		LDV Extra Over (For Uniondale/Haarlem)	Trip	1		
c		Tipper Truck (within 20km Radius of George)	Trip	1		
d		Tipper Truck Extra Over (For Uniondale/Haarlem)	Trip	1		
e		Vacuum Tanker (within 20km Radius of George)	Trip	1		
f		Vacuum Tanker Extra Over (For Uniondale/Haarlem)	Trip	1		
	2	<b>Scope of Services (Including All travel, plant, labour, disposal required with 20km Radius of George)</b>				
3	2.2	To trace, open, mark and uncover manholes (remove vegetation), treat with herbicide/sewer chemicals	m <sup>2</sup>	1		
4	2.1	Unblocking Pipeblockages using Manual Rodding equipment	m	1		
5	2.5	Unblocking Pipeblockages with Jetting Equipment (high pressure, min 500kPA), Rate must include all safety equipment				
5.1		Jetting of Lines				
a		160mm Ø to 450mm Ø	m	1		

Item	Ref	Description	Unit	Qty	Rate	Amount
5.2		Jetting and Vacuuming of Lines				
a		160mm Ø to 450mm Ø	m	1		
6	2.9	Removal of all material from sewer blockages	m <sup>3</sup>	1		
7	2.8	Camera inspection (information to be submitted in suitable electronic format): Normal Hours Only	m	1		
8	2.6	Pigging of lines. Normal Hours Only (Rate to include all safety equipment)	m	1		
9	2.3	Cleaning of Pumpstations (SUMPS) and Treatment Plants				
9.1		Removal of debries and sand/silt from pump station sumps, catch pits and sand channels (rate must include all safety equipment)	m <sup>3</sup>	1		
9.2		Cleaning of sump walls by means of jet washing (rate must include all safety equipment)	m <sup>2</sup>	1		
9.3		Disposal of Waste material from pump stations, catch pits and sand channels (0 - 7000 litre) (Normal Time)	m <sup>3</sup>	1		
10	2.3	Cleaning/Emptying of Septic Tanks and Conservancy Tanks				
10.1		Cleaning of Septic/Conservancy Tanks (Rate to include all safety equipment)	m <sup>3</sup>	1		
10.2		Disposal of Waste material from Conservancy/Septic Tanks (0 - 7000 litre) (Normal Time)	m <sup>3</sup>	1		
11	2.3	Cleaning of Containers (Drums) at Pumpstations				
11.1		Cleaning of 260l Drums/containers at pump stations and disposal	Station	1		
<b>Rates Only - No Total Required</b>						

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HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Schedule of Quantities (Part C2.2C) – MINOR CIVIL  
WORKS**

Item	Ref	Description	Unit	Qty	Rate	Amount
	C3C	Allow for all costs and expenses with regards to the following Preliminary & General, Contractual and Health & Safety and Project Management requirements (Including All travel, plant and labour required within 20km Radius of George)				
<b>1</b>	1	<b>Preliminary and General</b>				
1.1		Contractor's all-risk and third party insurance (once off for all three years)	Sum	Total		
1.2		Compilation of a H&S Plan in compliance to the OHS Act (once off for all three years)	Sum	Total		
1.3		Compilation of a H&S File in compliance to the OHS Act(once off for all three years)	Sum	Total		
1.4		Compliance (management and implementation) to OHS Act during contract period (year one only)	Sum	Total		
<b>2</b>	1	<b>Dayworks Schedule</b>				
2.1		Site Foreman	Hr	1		
2.2		General Skilled Artisan/Bricklayer	Hr	1		
2.3		General Worker/Assistant	Hr	1		
2.4		Travelling/Transport Normal Time (07:30 to 17h00, Mon to Fri)				
2.4.1		LDV Local Trip (within 20km Radius of George)	Trip	1		
2.4.2		LDV Extra Over (For Uniondale/Haarlem)	Trip	1		
2.4.3		Tipper Truck (within 20km Radius of George)	Trip	1		
2.4.4		Tipper Truck Extra Over (For Uniondale/Haarlem)	Trip	1		
2.4.5		Hire of Excavator/Digger Loader	Hr	1		
3	1	Percentage mark-up for management and handling any material or services not listed below	%			
<b>4</b>		<b>Scope of Services: Minor Civil Works (Including All travel, plant, labour, disposal required with 20km Radius of George)</b>				

4.1	<b>SANS 1200 C</b>	<b>Site Clearance</b>				
	PS C 8.2.1	Clearing of site including disposal of surplus material				
4.1.1		Clear and grub	m <sup>2</sup>	1		
4.1.2		Removal of walls/fence				
a		Vibre crete	m	1		
b		Brick walls	m	1		
c		Block brick walls	m	1		
d		Palisade	m	1		
e		Diamond mesh fence	m	1		
4.1.3		Demolish structures	m <sup>3</sup>	1		
4,2		Erection of walls/fences				
a		Vibracrete	m	1		
b		Brick walls	m	1		
c		Block brick walls	m	1		
d		Palisade	m	1		
e		Diamond mesh fence	m	1		
<b>5</b>	<b>SANS 1200 D</b>	<b>Earthworks</b>				
5.1	PS D 8.3.2	Excavate in all materials and use for embankment or backfill/fill or dispose as ordered.				
5.1.1.		Soft excavation				
a		0 m - 2 m	m <sup>3</sup>	1		
b		2 m - 4 m	m <sup>3</sup>	1		
5.1.2		Intermediate excavation				
a		0 m - 2 m	m <sup>3</sup>	1		
b		2 m - 4 m	m <sup>3</sup>	1		
5.1.3		Hard rock excavation				
a		0 m - 2 m	m <sup>3</sup>	1		
b		2 m - 4 m	m <sup>3</sup>	1		
5.2	PS D 8.3.2	Hand excavation in all materials and use of embanckment or backfill or, dispose as ordered	m <sup>3</sup>	1		
5.2.1		Soft excavation				
a		0 m - 2 m	m <sup>3</sup>	1		

b		2 m - 4 m	m <sup>3</sup>	1		
5.2.2		Intermediate excavation				
a		0 m - 2 m	m <sup>3</sup>	1		
b		2 m - 4 m	m <sup>3</sup>	1		
5.2.3		Hard rock excavation				
a		0 m - 2 m	m <sup>3</sup>	1		
b		2 m - 4 m	m <sup>3</sup>	1		
5.2.4		Boulder excavation	m <sup>3</sup>	1		
5.3	PS D 8.3.8.1	Excavate by hand in soft material to expose services				
5.4		Filling and compaction in 150mm thick layers to a density of at least 95% Mod AASHTO maximum density with:				
5.4.1		Selected granular material	m <sup>3</sup>	1		
5.4.2		Selected granular material	m <sup>3</sup>	1		
5.4.3		Bedding for wet conditions (13,2 mm stone wrapped with geotextile overlapping 150mm)	m <sup>3</sup>	1		
5.5	PS D 8.3.2	Extra-over	m <sup>3</sup>	1		
a		Backfill stabilized with 5% cement	m <sup>3</sup>	1		
5.6	PS D 8.3.2	Excavate and dispose of unsuitable material from excavation bottom	m <sup>3</sup>	1		
<b>6</b>	<b>SANS 1200 DB</b>	<b>Earthworks (trenches)</b>				
6.1	PS DB 8.3.2	Excavation	m <sup>3</sup>	1		
6.2	PS DB 8.3.2	Excavate in all materials for trenches, backfill, compact and dispose of surplus material	m <sup>3</sup>	1		
6.3	PS DB 8.3.2	Excavate and dispose of unsuitable material from trench bottom	m <sup>3</sup>	1		
6.4	PS DB 8.3.2	Hand excavation and backfill	m <sup>3</sup>	1		
6,5	PS DB 8.3.2	Excavate by hand in soft material fo expose existing services	m <sup>3</sup>	1		
6,6		Ancillaries				
6.6.1	PS DB 8.3.1.1	Make up deficiency in backfill material	m <sup>3</sup>	1		
6.6.2	PS DB 8.3.3.3	Compaction in road reserves	m <sup>3</sup>	1		

<b>7</b>	<b>SANS 1200 G</b>	<b>Concrete Work</b>				
7.1		Supply and casting of concrete with 19mm stone of the following classes:				
a		10MPa	m <sup>3</sup>	1		
b		15MPa	m <sup>3</sup>	1		
c		20MPa	m <sup>3</sup>	1		
d		25MPa	m <sup>3</sup>	1		
e		30MPa	m <sup>3</sup>	1		
7.2		Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork (wood):				
7.2.1		Vertical formwork to :				
a		Smooth	m <sup>2</sup>	1		
b		Rough	m <sup>2</sup>	1		
7.2.2		Sloping formwork to:				
a		Smooth	m <sup>2</sup>	1		
b		Rough	m <sup>2</sup>	1		
7.2.3		Horizontal formwork to:				
a		Smooth	m <sup>2</sup>	1		
b		Rough	m <sup>2</sup>	1		
7.3		Concrete surface finish:				
a		Wood float finish	m <sup>2</sup>	1		
b		Steel float finish	m <sup>2</sup>	1		
7.4	PS PS G 8.5	Joints	m	1		
7.5	PS PS G 8.7	Grouting:				
a		Non-shrink grout	m <sup>3</sup>	1		
b		Dry-packed grout	m <sup>3</sup>	1		
7.6	PS PS G 8.13	Breaking open and grouting of pipes in walls	m <sup>3</sup>	1		
<b>8</b>	<b>SANS 1200 MJ</b>	<b>Pavement</b>				
8.1	PS MJ 8.2.2	Construction of paving complete of the following size bricks:				
a		60mm Brick	m <sup>2</sup>	1		
b		80mm Brick	m <sup>2</sup>	1		

9	<b>SANS 10400 K</b>	<b>Brickwork</b>				
9.1		Brickwork, complete, including fixing of frames and reinforcing where necessary				
a		Claybrick - Single	m <sup>2</sup>	1		
b		Claybrick - Double	m <sup>2</sup>	1		
9.2		Waterproofing:				
9.3		Damp proof course in external brick walls and above all doors and openings (375 micron)	m	1		
9.4		Damp proof membrane under floor slabs (250 micron)	m <sup>2</sup>	1		
9.5		Plastering:				
a		Internal cement plaster - smooth finish	m <sup>2</sup>	1		
b		External cement plaster - smooth finish	m <sup>2</sup>	1		
c		Internal cement plaster - sand faced finish	m <sup>2</sup>	1		
d		External cement plaster - sand faced finish	m <sup>2</sup>	1		
e		Internal cement plaster - rough Cast finish	m <sup>2</sup>	1		
f		External cement plaster - rough cast finish	m <sup>2</sup>	1		
10	<b>SANS 1200 LC</b>	<b>Sleeves</b>				
10.1		Supply and install uPVC sleeve including draw wire and endcap:				
a		∅ 110 mm	m	1		
11		<b>Concrete Rings</b>				
11.1	PS LD 8.2.3	Supply and fit of precast concrete manhole rings in standard sizes(Dia/Depth):				
a		∅ 1000mm / 250mm	Each	1		
b		∅ 1000mm / 500mm	Each	1		
c		∅ 1000mm / 1000mm	Each	1		
11.2		Supply and fit ring cover/top slabs for precast concrete manhole in standard sizes:	.			

a		Ø 1000	Each	1		
11.3		Supply and install manhole covers / cover lid:				
a		Ø600mm Heavy duty concrete lid to SABS 558 1973 (3.5)	Each	1		
12	<b>SANS 1200 LD</b>	<b>Chamber Covers:</b>				
12.1		Supply and install custom lockable galvanised steel covers and frame as per specification	m <sup>2</sup>	1		
12.2		Supply and install standard type 2A chamber covers and frame of the following shape/size:				
12.2.1		Square:				
a		300 x 300mm	Each	1		
b		450 x 450mm	Each	1		
c		600 x 600mm	Each	1		
d		750 x 750mm	Each	1		
e		900 x 900mm	Each	1		
12.2.2		Rectangle:				
a		450 x 600mm	Each	1		
b		600 x 750mm	Each	1		
c		600 x 900mm	Each	1		
d		600 x 1200mm	Each	1		
e		750 x 1200mm	Each	1		
f		900 x 1200mm	Each	1		
12.2.3		Circular:				
d		Ø 1000mm	Each	1		
12.3	PS LD 3.5.9	Locking devices for manhole covers (Supply drawing detail) locks will be free issue	Each	1		
13	<b>PS LD 3.5.7</b>	<b>Step irons</b>				
a		Galvanised short leg step iron	Each	1		
b		Galvanised long leg step iron	Each	1		
14		<b>Core Drilling</b>				

14.1		Core drilling of holes with a depth of up to and including 150mm for sizes:				
a		Ø 50mm	Each	1		
a		Ø 110mm	Each	1		
15	<b>SANS 1200 LD</b>	<b>Sewers</b>				
15,1		Anchor Blocks				
a		Concrete	m <sup>3</sup>	1		
15,2		Connection to existing sewer at manhole				
a		Ø110mm	Each	1		
b		Ø160mm	Each	1		
15,3		Connection to existing pipes				
a		Ø110mm	Each	1		
b		Ø160mm	Each	1		
15,4		Connection to existing structures				
a		Ø110mm	Each	1		
b		Ø160mm	Each	1		
15,5		Extra-Over				
15.5.1		Wrapping of pipe in root control fabric				
a		Ø110mm	m	1		
b		Ø160mm	m	1		
15,6		Y-junctions for uPVC pipes:				
a		Ø110mm	Each	1		
b		Ø160mm	Each	1		
15,7		Endcaps for uPVC pipes				
a		Ø110mm	Each	1		
b		Ø160mm	Each	1		
16	<b>SANS 1200 HA</b>	<b>Structural Steelwork</b>				
16.1		High steel bars				
a		Y6	t	1		
b		Y8	t	1		
c		Y10	t	1		

d		Y12	t	1		
e		Y16	t	1		
f		Y18	t	1		
g		Y20	t	1		
h		Y22	t	1		
17	<b>SANS 1200 PB</b>	<b>Building Work and Materials</b>				
17.1		Supply and install roof truss structure / woodwork for typical security building, complete (1.5m x 3m structure)	m <sup>2</sup>	1		
17.2		Supply and install roof cladding / sheeting for security building, complete (1.5m x 3m structure)	m <sup>2</sup>	1		
17.3		Supply and install internal door - single	Each	1		
17.4		Supply and install external door - single	Each	1		
17,5		Supply and install window, 1050mm x 900mm high	Each	1		
<b>Rates Only - No Total Required</b>						

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-  
HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Schedule of Quantities (Part C2.2D) – MECHANICAL  
AND ELECTRICAL SERVICES**

Item	Ref	Description	Unit	Qty	Rate	Amount
<b>D1</b>	<b>C3D</b>	<b>Part 1 - General</b>				
	Sect. 1	Allow for all costs and expenses with regards to the following Preliminary & General, Contractual and Health & Safety and Project Management requirements (Including All travel, plant, labour, Factory Testing, Commissioning required within 20km Radius of George)				
<b>1</b>	<b>7</b>	<b>Preliminary and General</b>				
1.1		Contractor's all-risk and third party insurance (once off for all three years)	Sum	Total		
1.2		Compilation of a H&S Plan in compliance to the OHS Act (once off for all three years)	Sum	Total		
1.3		Compilation of a H&S File in compliance to the OHS Act(once off for all three years)	Sum	Total		
1.4		Compliance (management and implementation) to OHS Act during contract period (year one only)	Sum	Total		
<b>2</b>	<b>1</b>	<b>Dayworks Schedule</b>				
2.1		Labour: Normal Time (07:00 - 16:59, Mon-Friday)				
a		Mechanical Artisan/Pump Fitter	Hr	1		
b		Qualified Electrician	Hr	1		
c		General Worker/Assistant	Hr	1		
2.2		Labour: Normal Overtime (17:00 - 06:59, Mon-Friday; 00:00 - 23:59 Sat)				
a		Mechanical Artisan/Pump Fitter	Hr	1		
b		Qualified Electrician	Hr	1		
c		General Worker/Assistant	Hr	1		
2.3		Labour: Sundays and Public holidays (00:00 - 23:59)				
a		Mechanical Artisan/Pump Fitter	Hr	1		
b		Qualified Electrician	Hr	1		
c		General Worker/Assistant	Hr	1		
2.4		Transport: Local (any site within 20km radius - per trip)				
a		Light Delivery Vehicle	Trip	1		
b		1 ton 4x4 Light Delivery Vehicle	Trip	1		
c		10 ton Crane Truck	Trip	1		

Item	Ref	Description	Unit	Qty	Rate	Amount
2.5		Transport: Haarlem/Uniondale				
a		Light Delivery Vehicle	Trip	1		
b		1 ton 4x4 Light Delivery Vehicle	Trip	1		
c		10 ton Crane Truck	Trip	1		
2.6		Compilation and Submission of Workshop Drawings				
a		Mechanical Pipework drawing	Each	1		
b		Electrical MCC layout and single line diagram	Each	1		
<b>3</b>	<b>6</b>	<b>Scope of Services (Including All travel, plant, labour, disposal required with 20km Radius of George)- During Normal hours</b>				
3.1		Removal, Inspection and Reporting on the Status of Equipment				
a		For pump sets rated at 30kW and smaller:	Each	1		
b		Extra over for work in Uniondale/Haarlem	Trip	1		
c		For pump sets rated at 31kW and larger:	Each	1		
d		Extra over for work in Uniondale/Haarlem	Trip	1		
3.2		Unblocking and cleaning of sewage pumping and related equipment				
a		For pump sets rated at 30kW and smaller:	Each	1		
b		Extra over for work in Uniondale/Haarlem	Trip	1		
c		For pump sets ratedat 31kW and larger:	Each	1		
d		Extra over for work in Uniondale/Haarlem	Trip	1		
<b>4</b>	<b>12</b>	<b>Submission of Workshop Drawings:</b>				
4.1		Mechanical Plant and Pipework drawing	Each	1		
4.2		Electrical MCC layout and single line diagram	Each	1		
<b>5</b>	<b>2.3</b>	<b>"Special Projects" Works Packages to be made up of labour and travel rates</b>				
5.1		Gearboxes: Percentage mark-up on parts supplied, based on electrical driver size (percentage to be provided)				
a		Gearbox (≤15kW rated)	%			
b		Gearbox (>15kW, ≤50kW rated)	%			
c		Gearbox (>50kW rated)	%			



Item	Ref	Description	Unit	Qty	Material	Labour	Amount
D2	C3D	<b>Part 2 - Mechanical (Including All travel, plant, labour, Factory Testing, Commissioning, Training, O&amp;M Manuals, required within 20km Radius of George)</b>					
1	3	<b>Repair of Existing Equipment:</b>					
1.1		Pumps: Percentage mark-up on parts supplied, based on electrical driver size (percentage to be provided)					
a		Submersible pumps ( $\leq 15$ kW rated)	%				
b		Submersible pumps ( $> 15$ kW, $\leq 50$ kW rated)	%				
c		Submersible pumps ( $> 50$ kW rated)	%				
d		Self-priming pumps ( $\leq 15$ kW rated)	%				
e		Self-priming pumps ( $> 15$ kW, $\leq 50$ kW rated)	%				
f		Self-priming pumps ( $> 50$ kW rated)	%				
g		End-suction pumps ( $\leq 15$ kW rated)	%				
h		End-suction pumps ( $> 15$ kW, $\leq 50$ kW rated)	%				
i		End-suction pumps ( $> 50$ kW rated)	%				
1.2		Pumps: Transport and Labour remove, clean, strip, repair, reinstall, commission and test					
a		Submersible pumps ( $\leq 15$ kW rated)	Each	1			
b		Submersible pumps ( $> 15$ kW, $\leq 50$ kW rated)	Each	1			
c		Submersible pumps ( $> 50$ kW rated)	Each	1			
d		Self-priming pumps ( $\leq 15$ kW rated)	Each	1			
e		Self-priming pumps ( $> 15$ kW, $\leq 50$ kW rated)	Each	1			
f		Self-priming pumps ( $> 50$ kW rated)	Each	1			
g		End-suction pumps ( $\leq 15$ kW rated)	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
h		End-suction pumps (>15kW, ≤50kW rated)	Each	1			
i		End-suction pumps (>50kW rated)	Each	1			
1.3		Additional Services for pumps:					
a		Trimming of impeller to suit	Each	1			
b		Balancing of rotating assembly	Each	1			
c		Laser alignment	Each	1			
1.4		Electrical Motors: Percentage mark-up on parts supplied, based on electrical driver size (percentage to be provided)					
a		Submersible motor (≤15kW rated)	%				
b		Submersible motor (>15kW, ≤50kW rated)	%				
c		Submersible motor (>50kW rated)	%				
d		TEFC motor (<15kW rated)	%				
e		TEFC motor (>15kW, <50kW rated)	%				
f		TEFC motor (>51kW rated)	%				
1.5		Repair of Motors: (Transport and Labour remove, clean, strip, repair, reinstall, commission and test)					
a		Rewind of motor - submersible (≤15kW rated)	Each	1			
b		Rewind of motor - submersible (>15kW, ≤50kW rated)	Each	1			
c		Rewind of motor - submersible (>50kW rated)	Each	1			
d		Rewind of motor - TEFC (≤15kW rated)	Each	1			
e		Rewind of motor - TEFC (>15kW, ≤55kW rated)	Each	1			
f		Rewind of motor - TEFC (>55kW, ≤132kW rated)	Each	1			
g		Rewind of motor - TEFC (>132kW rated)	Each	1			
h		Baking of motor (≤15kW rated)	Each	1			
i		Baking of motor (>15kW, ≤50kW rated)	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
j		Baking of motor (>50kW rated)	Each	1			
1.6		I-beam Gantries and General Steel Work					
1.6.1		Cost for travel, labour, plant and material required for refurbishment of corrosion protection coating (base on corrosive environment) - 20 KM Radius					
a		Dry conditions - Low to medium corrosive environment	m <sup>2</sup>	1			
b		Dry conditions - high corrosive environment	m <sup>2</sup>	1			
c		Wet conditions - Fresh - and sea water	m <sup>2</sup>	1			
2	4	<b>Supplying and Installation:</b>					
2.1	4.2	Supply and installation of new Submersible pump sets, complete with wet end, submersible motor, pump motor and signal cables, to suit the following duty and characteristics:					
a		Nominal duty point at BEP: 9l/s @ 10m Nominal shut-off head: 16m Nominal run-out duty point: 15l/s @ 4m Minimum solids handling: 65mm	Each	1			
b		Nominal duty point at BEP: 11l/s @ 12m Nominal shut-off head: 20m Nominal run-out duty point: 18l/s @ 4m Minimum solids handling: 65mm	Each	1			
c		Nominal duty point at BEP: 20l/s @ 6m Nominal shut-off head: 10m Nominal run-out duty point: 28l/s @ 4m Minimum solids handling: 80mm	Each	1			
d		Nominal duty point at BEP: 19l/s @ 7m Nominal shut-off head: 11.5m Nominal run-out duty point: 35l/s @ 2m Minimum solids handling: 80mm	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
e		Nominal duty point at BEP: 20l/s @ 4.5m Nominal shut-off head: 10m Nominal run-out duty point: 30l/s @ 2m Minimum solids handling: 100mm	Each	1			
f		Nominal duty point at BEP: 12l/s @ 40m Nominal shut-off head: 48m Nominal run-out duty point: 14l/s @ 39m Minimum solids handling: 65mm	Each	1			
g		Nominal duty point at BEP: 12l/s @ 15m Nominal shut-off head: 24.5m Nominal run-out duty point: 22l/s @ 5m Minimum solids handling: 65mm	Each	1			
h		Nominal duty point at BEP: 24l/s @ 9m Nominal shut-off head: 14m Nominal run-out duty point: 40l/s @ 3m Minimum solids handling: 80mm	Each	1			
i		Nominal duty point at BEP: 30l/s @ 10m Nominal shut-off head: 17m Nominal run-out duty point: 42l/s @ 4m Minimum solids handling: 80mm	Each	1			
j		Nominal duty point at BEP: 20l/s @ 17.5m Nominal shut-off head: 31m Nominal run-out duty point: 31l/s @ 9m Minimum solids handling: 80mm	Each	1			
k		Nominal duty point at BEP: 22l/s @ 22m Nominal shut-off head: 35m Nominal run-out duty point: 40l/s @ 7m Minimum solids handling: 80mm	Each	1			
l		Nominal duty point at BEP: 22l/s @ 7m Nominal shut-off head: 13m Nominal run-out duty point: 33l/s @ 4m Minimum solids handling: 100mm	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
m		Nominal duty point at BEP: 25l/s @ 13.5m Nominal shut-off head: 18m Nominal run-out duty point: 48l/s @ 4m Minimum solids handling: 100mm	Each	1			
n		Nominal duty point at BEP: 25l/s @ 29m Nominal shut-off head: 43m Nominal run-out duty point: 38l/s @ 16m Minimum solids handling: 80mm	Each	1			
o		Nominal duty point at BEP: 28l/s @ 40m Nominal shut-off head: 52m Nominal run-out duty point: 38l/s @ 30m Minimum solids handling: 80mm	Each	1			
p		Nominal duty point at BEP: 30l/s @ 70m Nominal shut-off head: 80m Nominal run-out duty point: 35l/s @ 65m Minimum solids handling: 80mm	Each	1			
q		Nominal duty point at BEP: 50l/s @ 45m Nominal shut-off head: 70m Nominal run-out duty point: 56l/s @ 42m Minimum solids handling: 80mm	Each	1			
r		Nominal duty point at BEP: 50l/s @ 30m Nominal shut-off head: 35m Nominal run-out duty point: 70l/s @ 27m Minimum solids handling: 100mm	Each	1			
s		Percentage mark-up on supply and installation of new pump not listed above, value of pump less than R 50 000-00 (percentage to be provided)	%				
t		Percentage mark-up on supply and installation of new pump not listed above, value of pump more than R 50 001-00, less than R 100 000-00 (percentage to be provided)	%				

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
u		Percentage mark-up on supply and installation of new pump not listed above, value of pump more than R 100 001-00, less than R 200 000-00 (percentage to be provided)	%				
v		Percentage mark-up on supply and installation of new pump not listed above, value of pump more than R 200 001-00 (percentage to be provided)	%				
2.2	4.2	Supply and installation of Self-Priming pump, complete with wet end, belt drive, coupling guard, air-release valve and base plate, to suit the following duty and characteristics:					
a		Nominal duty point at BEP: 24l/s @ 28m Nominal shut-off head: 40m Nominal run-out duty point: 28l/s @ 26m Minimum solids handling: 60mm	Each	1			
b		Nominal duty point at BEP: 36l/s @ 29m Nominal shut-off head: 40m Nominal run-out duty point: 45l/s @ 25m Minimum solids handling: 75mm	Each	1			
c		Nominal duty point at BEP: 70l/s @ 24m Nominal shut-off head: 37m Nominal run-out duty point: 92l/s @ 18m Minimum solids handling: 75mm	Each	1			
d		Nominal duty point at BEP: 120l/s @ 24m Nominal shut-off head: 39m Nominal run-out duty point: 170l/s @ 14m Minimum solids handling: 75mm	Each	1			
e		Nominal duty point at BEP: 180l/s @ 30m Nominal shut-off head: 46m Nominal run-out duty point: 215l/s @ 24m Minimum solids handling: 76mm	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
f		Percentage mark-up on supply of new pump not listed above, value of pump less than R 50 000-00 (percentage to be provided)	%				
g		Percentage mark-up on supply of new pump not listed above, value of pump more than R 50 001-00, less than R 100 000-00 (percentage to be provided)	%				
h		Percentage mark-up on supply of new pump not listed above, value of pump more than R 100 001-00, less than R 200 000-00 (percentage to be provided)	%				
i		Percentage mark-up on supply of new pump not listed above, value of pump more than R 200 001-00 (percentage to be provided)	%				
2.3		Supply of End-suction pump, complete with wet end, coupling, coupling guard and base plate, to suit the following duty and characteristics:					
a		Percentage mark-up on supply and installation of new pump not listed above, value of pump less than R 50 000-00 (percentage to be provided)	%				
b		Percentage mark-up on supply and installation of new pump not listed above, value of pump more than R 50 001-00, less than R 100 000-00 (percentage to be provided)	%				
c		Percentage mark-up on supply and installation of new pump not listed above, value of pump more than R 100 001-00, less than R 200 000-00 (percentage to be provided)	%				
d		Percentage mark-up on supply and installation of new pump not listed above, value of pump more than R 200 001-00 (percentage to be provided)	%				

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
2.4	4.2	Supply and installation of Electrical motors, 400V, 3-phase, 2-pole, IE3 TEFC (Normal Duty Rating):					
a		1.1kW	Each	1			
b		1.5kW	Each	1			
c		2.2kW	Each	1			
d		3kW	Each	1			
e		4kW	Each	1			
f		5.5kW	Each	1			
g		7.5kW	Each	1			
h		9kW	Each	1			
i		11kW	Each	1			
j		15kW	Each	1			
k		18.5kW	Each	1			
l		22kW	Each	1			
m		30kW	Each	1			
n		45kW	Each	1			
o		55kW	Each	1			
p		75kW	Each	1			
q		90kW	Each	1			
r		110kW	Each	1			
s		132kW	Each	1			
t		160kW	Each	1			
u		185kW	Each	1			
v		200kW	Each	1			
w		220kW	Each	1			
x		250kW	Each	1			
y		300kW	Each	1			

**Pricing Instructions**

**Part C2.2D**

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
2.5	4.2	Supply and installation of Electrical motors, 400V, 3-phase, 4-pole, IE3 TEFC (Normal Duty Rating):					
a		1.1kW	Each	1			
b		1.5kW	Each	1			
c		2.2kW	Each	1			
d		3kW	Each	1			
e		4kW	Each	1			
f		5.5kW	Each	1			
g		7.5kW	Each	1			
h		9kW	Each	1			
i		11kW	Each	1			
j		15kW	Each	1			
k		18.5kW	Each	1			
l		22kW	Each	1			
m		30kW	Each	1			
n		45kW	Each	1			
o		55kW	Each	1			
p		75kW	Each	1			
q		90kW	Each	1			
r		110kW	Each	1			
s		132kW	Each	1			
t		160kW	Each	1			
u		185kW	Each	1			
v		200kW	Each	1			
w		220kW	Each	1			
x		250kW	Each	1			
y		300kW	Each	1			
2.6	4.2	Supply and installation of Electrical motors, 400V, 3-phase, 6-pole, IE3 TEFC (Normal Duty Rating):					
a		1.1kW	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
b		1.5kW	Each	1			
c		2.2kW	Each	1			
d		3kW	Each	1			
e		4kW	Each	1			
f		5.5kW	Each	1			
g		7.5kW	Each	1			
h		9kW	Each	1			
i		11kW	Each	1			
j		15kW	Each	1			
k		18.5kW	Each	1			
l		22kW	Each	1			
m		30kW	Each	1			
n		45kW	Each	1			
o		55kW	Each	1			
p		75kW	Each	1			
q		90kW	Each	1			
r		110kW	Each	1			
s		132kW	Each	1			
t		160kW	Each	1			
u		185kW	Each	1			
v		200kW	Each	1			
w		220kW	Each	1			
x		250kW	Each	1			
y		300kW	Each	1			
2.7	4.2	Supply and installation of Submersible pump ancillaries, complete to suite the supplied pump set:					
a		Duckfoot bend - DN50	Each	1			
b		Duckfoot bend - DN65	Each	1			
c		Duckfoot bend - DN80	Each	1			
d		Duckfoot bend - DN100	Each	1			
e		Duckfoot bend - DN150	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
f		Duckfoot bend - DN200	Each	1			
g		Guide rails (SS316), pair, to suit ND50 duckfoot bend, 6m long	Each	1/set			
h		Guide rails (SS316), pair, to suit ND65 duckfoot bend, 6m long	Each	1/set			
i		Guide rails (SS316), pair, to suit ND80 duckfoot bend, 6m long	Each	1/set			
j		Guide rails (SS316), pair, to suit ND100 duckfoot bend, 6m long	Each	1/set			
k		Guide rails (SS316), pair, to suit ND150 duckfoot bend, 6m long	Each	1/set			
l		Guide rails (SS316), pair, to suit ND200 duckfoot bend, 6m long	Each	1/set			
m		Guide rail top bracket to suit DN50 duckfoot bend	Each	1/set			
n		Guide rail top bracket to suit DN65 duckfoot bend	Each	1/set			
o		Guide rail top bracket to suit DN80 duckfoot bend	Each	1/set			
p		Guide rail top bracket to suit DN100 duckfoot bend	Each	1/set			
q		Guide rail top bracket to suit DN150 duckfoot bend	Each	1/set			
r		Guide rail top bracket to suit DN200 duckfoot bend	Each	1/set			
s		Lifting Chain, SS316, 6mm	m	1			
t		Lifting Chain, SS316, 8mm	m	1			
u		Lifting Chain, SS316, 10mm	m	1			
2.8	4.3	Supply and installation of Pipework, 316 SS, PN16:					
2.8.1		DN50 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			

**Pricing Instructions**

**Part C2.2D**

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
2.8.2		DN80 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.3		DN100 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.4		DN150 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.5		DN200 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
2.8.6		DN250 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.7		DN300 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.8		DN350 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.9		DN400 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
f		3000mm	Each	1			
2.8.10		DN450 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.11		DN500 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.12		DN550 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.13		DN600 Straight pipe, flanged both ends (flange to flange):					
a		500mm	Each	1			
b		1000mm	Each	1			
c		1500mm	Each	1			
d		2000mm	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
e		2500mm	Each	1			
f		3000mm	Each	1			
2.8.14		90° Long radius bends, flanged both ends					
a		DN50	Each	1			
b		DN80	Each	1			
c		DN100	Each	1			
d		DN150	Each	1			
e		DN200	Each	1			
f		DN250	Each	1			
g		DN300	Each	1			
h		DN350	Each	1			
i		DN400	Each	1			
j		DN450	Each	1			
k		DN500	Each	1			
l		DN550	Each	1			
m		DN600	Each	1			
2.8.15		45° Long radius bends, flanged both ends					
a		DN50	Each	1			
b		DN80	Each	1			
c		DN100	Each	1			
d		DN150	Each	1			
e		DN200	Each	1			
f		DN250	Each	1			
g		DN300	Each	1			
h		DN350	Each	1			
i		DN400	Each	1			
j		DN450	Each	1			
k		DN500	Each	1			
l		DN550	Each	1			
m		DN600	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
2.8.16		Equal, swept 90° Long radius Tee, flanged all ends					
a		DN50	Each	1			
b		DN80	Each	1			
c		DN100	Each	1			
d		DN150	Each	1			
e		DN200	Each	1			
f		DN250	Each	1			
g		DN300	Each	1			
h		DN350	Each	1			
i		DN400	Each	1			
j		DN450	Each	1			
k		DN500	Each	1			
l		DN550	Each	1			
m		DN600	Each	1			
2.8.17		Unequal, swept 90° Long radius Tee, flanged all ends (Main x Tee-off)					
a		DN80 x DN50	Each	1			
b		DN100 x DN80	Each	1			
c		DN150 x DN100	Each	1			
d		DN200 x DN150	Each	1			
e		DN250 x DN200	Each	1			
f		DN300 x DN250	Each	1			
g		DN350 x DN300	Each	1			
h		DN400 x DN350	Each	1			
i		DN450 x DN400	Each	1			
j		DN500 x DN450	Each	1			
k		DN550 x DN500	Each	1			
l		DN600 x DN550	Each	1			
2.9	4.3	Supply and installation of pipe fittings, PN16 rated					

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
2.9.1		Flange adapter:					
a		DN50	Each	1			
b		DN65	Each	1			
c		DN80	Each	1			
d		DN100	Each	1			
e		DN125	Each	1			
f		DN150	Each	1			
g		DN200	Each	1			
h		DN250	Each	1			
i		DN300	Each	1			
j		DN350	Each	1			
k		DN400	Each	1			
l		DN450	Each	1			
m		DN500	Each	1			
n		DN550	Each	1			
o		DN600	Each	1			
2.9.2		Straight Coupler:					
a		DN50	Each	1			
b		DN80	Each	1			
c		DN100	Each	1			
d		DN150	Each	1			
e		DN200	Each	1			
f		DN250	Each	1			
g		DN300	Each	1			
h		DN350	Each	1			
i		DN400	Each	1			
j		DN450	Each	1			
k		DN500	Each	1			
l		DN550	Each	1			
m		DN600	Each	1			
2.9.3		Flanged Rubber Bellows:					

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
a		DN50	Each	1			
b		DN65	Each	1			
c		DN80	Each	1			
d		DN100	Each	1			
e		DN125	Each	1			
f		DN150	Each	1			
g		DN200	Each	1			
h		DN250	Each	1			
i		DN300	Each	1			
j		DN350	Each	1			
k		DN400	Each	1			
l		DN450	Each	1			
m		DN500	Each	1			
n		DN550	Each	1			
o		DN600	Each	1			
2.10	4.4	Supply and installation of Valves, PN16 rated					
2.10.1		Flanged Resilient Seat Gate Valve, right hand closing, non-rising spindle with hand-wheel					
a		DN50	Each	1			
b		DN80	Each	1			
c		DN100	Each	1			
d		DN150	Each	1			
e		DN200	Each	1			
f		DN250	Each	1			
g		DN300	Each	1			
h		DN350	Each	1			
i		DN400	Each	1			
j		DN450	Each	1			
k		DN500	Each	1			
l		DN550	Each	1			
m		DN600	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
2.10.2		Flanged double eccentric, butterfly Valve, right hand closing, gearbox with hand-wheel					
a		DN300	Each	1			
b		DN350	Each	1			
c		DN400	Each	1			
d		DN450	Each	1			
e		DN500	Each	1			
f		DN550	Each	1			
g		DN600	Each	1			
2.10.3		Flanged single door swing type non-return valve, with lever and counter weight					
a		DN50	Each	1			
b		DN80	Each	1			
c		DN100	Each	1			
d		DN150	Each	1			
e		DN200	Each	1			
f		DN250	Each	1			
g		DN300	Each	1			
h		DN350	Each	1			
i		DN400	Each	1			
j		DN450	Each	1			
k		DN500	Each	1			
l		DN550	Each	1			
m		DN600	Each	1			
2.10.4		Flanged double action air-release valve, complete with 5m uPVC drainage pipework					
a		DN25	Each	1			
b		DN50	Each	1			
c		DN80	Each	1			
d		DN100	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
e		DN150	Each	1			
f		DN200	Each	1			
2.10.5		Flanged double action air-release valve suitable for raw sewage, complete with 5m uPVC drainage pipework					
a		DN25	Each	1			
b		DN50	Each	1			
c		DN80	Each	1			
d		DN100	Each	1			
e		DN150	Each	1			
f		DN200	Each	1			
2.11	4.5	Ancillary Equipment, supply and installation					
2.11.1		Nuts, Bolts, Ready-bar and Packings, complete set (number and size) per PN16 rated flange size					
a		DN50	Each	1			
b		DN65	Each	1			
c		DN80	Each	1			
d		DN100	Each	1			
e		DN125	Each	1			
f		DN150	Each	1			
g		DN200	Each	1			
h		DN250	Each	1			
i		DN300	Each	1			
j		DN350	Each	1			
k		DN400	Each	1			
l		DN450	Each	1			
m		DN500	Each	1			
n		DN550	Each	1			
o		DN600	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
2.11.2		Glycerine filled Pressure Gauge, complete with high pressure hose, isolating cock, with suitable pressure range					
a		-50 kPa - 200 kPa	Each	1			
b		0 kPa - 250 kPa	Each	1			
c		0 kPa - 500 kPa	Each	1			
d		0 kPa - 750 kPa	Each	1			
e		0 kPa - 1000 kPa	Each	1			
f		0 kPa - 1600 kPa	Each	1			
g		0 kPa - 2500 kPa	Each	1			
2.11.3		Glycerine filled Pressure Gauge suitable for raw sewage, complete with high pressure hose, isolating cock, with suitable pressure range					
a		0 kPa - 250 kPa	Each	1			
b		0 kPa - 500 kPa	Each	1			
c		0 kPa - 750 kPa	Each	1			
d		0 kPa - 1000 kPa	Each	1			
e		0 kPa - 1600 kPa	Each	1			
f		0 kPa - 2500 kPa	Each	1			
2.11.4		HDG Pressure gauge stand, to suite:					
a		One pressure gauge	Each	1			
b		Two pressure gauges	Each	1			
2.11.5		Lifting Equipment: Chain block / hoist, complete with SWL:					
a		500kg SWL	Each	1			
b		1000kg SWL	Each	1			
c		1500kg SWL	Each	1			
d		2000kg SWL	Each	1			
e		3000kg SWL	Each	1			
f		5000kg SWL	Each	1			



Item	Ref	Description	Unit	Qty	Material	Labour	Amount
D3	C3D	<b>Part 3 - Electrical and Instrumentation (Including All travel, plant, labour, Factory Testing, Commissioning required within 20km Radius of George)</b>					
1	3	<b>Motor Control Centres (MCCs)</b>					
		Design, supply, install and commission a new MCC, excluding specific components listed in separate sections below					
1.1	3	<b>Outdoor MCCs</b>					
1.1.1		<b>Material: 3CR12</b>					
1.1.1.1		Two-Pump Configuration - 6kA Fault Rating					
		Duty/Standby pumping configuration, with motor sizes as indicated					
a		2.2kW	Each	1			
b		3kW	Each	1			
c		5kW	Each	1			
d		7.5kW	Each	1			
e		9kW	Each	1			
f		11kW	Each	1			
g		15kW	Each	1			
h		22kW	Each	1			
i		28kW	Each	1			
j		30kW	Each	1			
k		37kW	Each	1			
l		45kW	Each	1			
m		48kW	Each	1			
1.1.1.2		Two-Pump Configuration - 10kA Fault Rating					
		Duty/Standby pumping configuration, with motor sizes as indicated					
a		37kW	Each	1			
b		45kW	Each	1			
c		48kW	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
1.1.1.3		Three-Pump Configuration - 10kA Fault Rating					
		2 x Duty/Standby pumping configuration, with motor sizes as indicated					
a		37kW	Each	1			
b		45kW	Each	1			
c		48kW	Each	1			
1.1.1.4		Three-Pump Configuration - 12kA Fault Rating					
		2 x Duty/Standby pumping configuration, with motor sizes as indicated					
a		37kW	Each	1			
b		45kW	Each	1			
c		48kW	Each	1			
<b>1.1.2</b>		<b>Material: SS304</b>					
1.1.2.1		Two-Pump Configuration - 6kA Fault Rating					
		Duty/Standby pumping configuration, with motor sizes as indicated					
a		2.2kW	Each	1			
b		3kW	Each	1			
c		5kW	Each	1			
d		7.5kW	Each	1			
e		9kW	Each	1			
f		11kW	Each	1			
g		15kW	Each	1			
h		22kW	Each	1			
i		28kW	Each	1			
j		30kW	Each	1			
k		37kW	Each	1			
l		45kW	Each	1			
m		48kW	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
1.1.2.2		Two-Pump Configuration - 10kA Fault Rating					
		Duty/Standby pumping configuration, with motor sizes as indicated					
a		37kW	Each	1			
b		45kW	Each	1			
c		48kW	Each	1			
1.1.2.3		Three-Pump Configuration - 10kA Fault Rating					
		2 x Duty/Standby pumping configuration, with motor sizes as indicated					
a		37kW	Each	1			
b		45kW	Each	1			
c		48kW	Each	1			
1.1.2.4		Three-Pump Configuration - 12kA Fault Rating					
		2 x Duty/Standby pumping configuration, with motor sizes as indicated					
a		37kW	Each	1			
b		45kW	Each	1			
c		48kW	Each	1			
1.1.3		Removal of existing outdoor MCC, including delivery to Municipal stores against a signed delivery receipt	Each	1			
<b>1.2</b>	<b>3</b>	<b>Indoor MCCs - 3CR12 Only</b>					
1.2.1		Two-Pump Configuration - 10kA Fault Rating					
		Duty/Standby pumping configuration, with motor sizes as indicated					
a		22kW	Each	1			
b		28kW	Each	1			
c		30kW	Each	1			
d		37kW	Each	1			
e		45kW	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
f		48kW	Each	1			
1.2.2		Two-Pump Configuration - 12kA Fault Rating					
		Duty/Standby pumping configuration, with motor sizes as indicated					
a		55kW					
b		75kW					
c		90kW					
d		110kW					
1.2.3		Three-Pump Configuration - 10kA Fault Rating					
		2 x Duty/Standby pumping configuration, with motor sizes as indicated					
a		37kW	Each	1			
b		45kW	Each	1			
c		48kW	Each	1			
d		55kW	Each	1			
e		75kW	Each	1			
f		90kW	Each	1			
g		110kW	Each	1			
1.2.4		Three-Pump Configuration - 12kA Fault Rating					
		2 x Duty/Standby pumping configuration, with motor sizes as indicated					
a		37kW	Each	1			
b		45kW	Each	1			
c		48kW	Each	1			
d		55kW	Each	1			
e		75kW	Each	1			
f		90kW	Each	1			
g		110kW	Each	1			
1.2.5		Four-Pump Configuration - 12kA Fault Rating					
		3 x Duty/Standby pumping configuration, with motor sizes as indicated					
a		55kW	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
b		75kW	Each	1			
c		90kW	Each	1			
d		110kW	Each	1			
1.2.6		Four-Pump Configuration - 17kA Fault Rating					
		3 x Duty/Standby pumping configuration, with motor sizes as indicated					
a		55kW	Each	1			
b		75kW	Each	1			
c		90kW	Each	1			
d		110kW	Each	1			
1.2.7		Removal of existing indoor MCC, including delivery to Municipal stores against a signed delivery receipt	Each	1			
<b>2</b>	<b>4</b>	<b>Motor Starters</b>					
		Design, supply, install, program and commission a new motor starter, in new or existing MCC					
<b>2.1</b>	<b>4.1</b>	<b>Soft Starters (No PFC)</b>					
		Normal Duty (ND) rating, with no Power Factor Correction (PFC) required					
a		2.2kW	Each	1			
b		3kW	Each	1			
c		5kW	Each	1			
d		7.5kW	Each	1			
e		9kW	Each	1			
f		Removal of existing, including delivery to Municipal stores against a signed delivery receipt	Each	1			
<b>2.2</b>	<b>4.1</b>	<b>Soft Starters (With PFC)</b>					
		Normal Duty (ND) rating, with individual Power Factor Correction (PFC) required					
a		11kW	Each	1			
b		15kW	Each	1			
c		22kW	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
d		28kW	Each	1			
e		30kW	Each	1			
f		37kW	Each	1			
g		45kW	Each	1			
h		48kW	Each	1			
i		55kW	Each	1			
j		75kW	Each	1			
k		90kW	Each	1			
l		110kW	Each	1			
m		Removal of existing, including delivery to Municipal stores against a signed delivery receipt	Each	1			
<b>2.3</b>	<b>4.2</b>	<b>Variable Speed Drives (VSDs)</b>					
		Normal Duty Rating					
a		2.2kW	Each	1			
b		3kW	Each	1			
c		5kW	Each	1			
d		7.5kW	Each	1			
e		9kW	Each	1			
f		11kW	Each	1			
g		15kW	Each	1			
h		22kW	Each	1			
i		28kW	Each	1			
j		30kW	Each	1			
k		37kW	Each	1			
l		45kW	Each	1			
m		48kW	Each	1			
n		55kW	Each	1			
o		75kW	Each	1			
p		90kW	Each	1			
q		110kW	Each	1			
r		Removal of existing, including delivery to Municipal stores against a signed delivery receipt	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
<b>3</b>	<b>5</b>	<b>PLCs and HMIs</b>					
		Design, supply, install, program and commission a new control system (hardware and software), in new or existing MCC					
<b>3.1</b>	<b>5.1</b>	<b>PLCs</b>					
		To be priced complete with in-line UPS and all specified I/O allocation, network and communication protocols					
a		Small PLC unit (DVP20ES200RE)	Each	1			
b		Medium PLC unit (DVP40ES200RE)	Each	1			
c		Large PLC unit (DVP60ES200RE)	Each	1			
d		Expansion 8 x Digital Input I/O module	Each	1			
e		Expansion 16 x Digital Input I/O module	Each	1			
f		Expansion 8 x Digital Output I/O module	Each	1			
g		Expansion 4 x Digital Input & Output I/O combined module	Each	1			
h		Expansion 8 x Digital Input & Output I/O combined module	Each	1			
i		Expansion 2 x Analogue Input I/O module	Each	1			
j		Expansion 4 x Analogue Input I/O module	Each	1			
k		Expansion 4 x Analogue Input & 2 x Output I/O combined module	Each	1			
l		Separate power supply module	Each	1			
m		Programming, testing and implementation of a two-pump configuration, as per project specifications	Each	1			
n		Programming, testing and implementation of a three-pump configuration, as per project specifications	Each	1			
o		Removal of existing, including delivery to Municipal stores against a signed delivery receipt	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
<b>3.2</b>	<b>5.2</b>	<b>HMIs</b>					
		To be priced complete with iterative configuration approval process and compliance to Client standards					
a		7"	Each	1			
b		10"	Each	1			
c		15"	Each	1			
d		Programming, graphic configuration, testing and implementation of a two-pump configuration, as per project specifications	Each	1			
e		Programming, graphic configuration, testing and implementation of a three-pump configuration, as per project specifications	Each	1			
<b>4</b>	<b>6</b>	<b>Instrumentation</b>					
		Supply, install and commission new equipment in new and existing sites. Equipment pricing to include all brackets, labeling, connections and adequate cable length for direct MCC termination					
<b>4.1</b>	<b>6.1</b>	<b>Ultrasonic Level Sensors</b>					
		Controllers to be MCC-mounted, behind window. Controllers to be programmed, based upon site considerations and levels					
a		12m Single-sensor and controller configuration	Each	1			
b		12m Double-sensor and controller configuration	Each	1			
c		Re-programming of existing unit	Each	1			
d		Clean existing sensor in sump	Each	1			
e		Clean existing float level switches (set) in sump	Each	1			
f		Removal of existing, including delivery to Municipal stores against a signed delivery receipt	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
<b>4.2</b>	<b>6.2</b>	<b>Electromagnetic Flow Meters</b>					
		Split-type units with controllers mounted in MCC (outdoor), or wall-mounted (indoor). Complete with Modbus, earthing rings and general bonding					
a		50mm Flanged-type	Each	1			
b		80mm Flanged-type	Each	1			
c		100mm Flanged-type	Each	1			
d		150mm Flanged-type	Each	1			
e		200mm Flanged-type	Each	1			
f		250mm Flanged-type	Each	1			
g		300mm Flanged-type	Each	1			
h		Removal of existing, including delivery to Municipal stores against a signed delivery receipt	Each	1			
<b>4.3</b>	<b>6.3</b>	<b>Pressure Sensors</b>					
		Socket-mounted unit on pipe, with pricing to include digital display in MCC, with two relay-outputs					
<b>4.3.1</b>		<b>Water application</b>					
a		Rated 6-bar	Each	1			
b		Rated 10-bar	Each	1			
c		Rated 16-bar	Each	1			
<b>4.3.2</b>		<b>Sewerage application</b>					
a		Rated 6-bar	Each	1			
b		Rated 10-bar	Each	1			
c		Rated 16-bar	Each	1			
<b>4.4</b>	<b>6.4</b>	<b>Pressure Switches</b>					
		Socket-mounted unit on pipe					
<b>4.4.1</b>		<b>Water application</b>					
a		Rated 6-bar	Each	1			
b		Rated 10-bar	Each	1			
c		Rated 16-bar	Each	1			
<b>4.4.2</b>		<b>Sewerage application</b>					
a		Rated 6-bar	Each	1			

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
b		Rated 10-bar	Each	1			
c		Rated 16-bar	Each	1			
<b>5</b>	<b>7</b>	<b>Remote Monitoring</b>					
		Supply, install, program and commission new equipment in new and existing sites. Equipment pricing to include all brackets, labelling, connections and adequate cable length for direct MCC termination, as per specifications					
<b>5.1</b>		<b>GSM Commander - New MCCs</b>					
		In new MCCs, units to be MCC-mounted on dedicated backplane, behind window. Units to be programmed, based upon site considerations and requested I/O					
a		Micro Commander	Each	1			
b		Lite Commander	Each	1			
c		Standard Commander	Each	1			
d		PLC Commander	Each	1			
e		Professional Commander	Each	1			
f		Expansion 10 x Digital Module	Each	1			
g		Expansion 8 x Analogue Module	Each	1			
h		Expansion 5 x Input & Output Combined Module	Each	1			
i		New 12V, 7Ah lead-acid battery	Each	1			
j		New 12V, 10Ah lead-acid battery	Each	1			
k		New 7A battery charger	Each	1			
l		New GSM line filter for EMC	Each	1			
<b>5.2</b>		<b>GSM Commander - Existing Sites</b>					
		In existing sites, units to be installed in existing location, within new enclosure. Units to be programmed, based upon site considerations and requested I/O					
a		Micro Commander	Each	1			

**Pricing Instructions**

**Part C2.2D**

Item	Ref	Description	Unit	Qty	Material	Labour	Amount
b		Lite Commander	Each	1			
c		Standard Commander	Each	1			
d		PLC Commander	Each	1			
e		Professional Commander	Each	1			
f		Expansion 10 x Digital Module	Each	1			
g		Expansion 8 x Analogue Module	Each	1			
h		Expansion 5 x Input & Output Combined Module	Each	1			
i		New 12V, 7Ah lead-acid battery	Each	1			
j		New 12V, 10Ah lead-acid battery	Each	1			
k		New 7A battery charger	Each	1			
l		New GSM line filter for EMC	Each	1			
m		Re-programming of existing unit	Each	1			
n		Removal of existing, including delivery to Municipal stores against a signed delivery receipt	Each	1			
<b>Rates Only - No Total Required</b>							

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**Scope of Works (Part C3)**

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**GEORGE MUNICIPALITY****DIRECTORATE: CIVIL ENGINEERING SERVICES****TENDER NUMBER: T/ING/012/2020****TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS****Scope of Works (Part C3A) – LANDSCAPING, GRASS  
CUTTING AND SITE CLEANING****Section 1: General****1. OVERVIEW****1.1 GENERAL REQUIREMENTS**

The purpose of the contract is to procure specialised services of a Contractor or Service Provider for ad-hoc maintenance and cleansing work at George's Municipality's existing water and wastewater infrastructure for a period of three (3) years from the date of appointment. The work by the Contractor shall be supplementary to the Municipality's inhouse Technical Services and shall be on an ad-hoc basis.

The Municipality requires a Contractor who can, at planned notice, address routine gardening, landscape and general cleaning maintenance requirements in and around on the existing infrastructure.

All plant, consumables and labour items required to ensure a complete, functional, and compliant service must be provided as part of the tender offer.

**1.2 MINIMUM REQUIREMENTS FOR TENDERERS TO COMPLY**

Tenderers must be an established Gardening and Landscape Maintenance Contractor situated in South Africa, but must be able to be on a Site within a radius of 20 km from central George within 24 hours, to ensure cost effective and efficient delivery, which will be used for eligibility checks.

The Tenderer must have key personnel with the relevant qualifications and/or experience to conduct the work at hand. Refer Schedule of Pricing for specific personnel requirements.

**1.2.1 Key Resources**

The following sections cover the minimum requirements in order to complete expected works orders under this section, and where applicable must be met in the Pre-Qualification requirements, with respective Minimum scoring to be considered for appointment.

All requirements listed must be completed in the applicable schedules, with supporting documentation submitted as part of the tender submission.

**Personnel:**

The minimum requirements are described in Form 2.1.3 of the Returnable Schedule

Updated CV of all Key personnel as well as supporting documents/certificates must be submitted with the tender.

**Minimum Plant and Equipment Requirements**

- 1 x Long Wheeled base or suitable Light Delivery Vehicle (LDV) rated to carry a minimum of 1000kg /1 Ton load.
- 1 x Non Electrical/Petrol Lawnmower
- 1 x Non Electrical/Petrol Brushcutter/Weed Eater
- Small Tools such as spades, rakes, brooms, garden shears, pressurized sprayer bottles.

**1.3 BROAD SCOPE OF SERVICES**

This contract will be executed as a Main Contract, with specialist sub-contractors where required. The contractor shall liaise closely with the Municipal Technical Department as well as with their respective work forces/teams associated to the work.

The Municipal Technical Department shall lead the coordination with the Contractor for the associated requirements. Refer to the typical process/proceedings flow diagram provided in section 3. The Contractor shall allow for all costs involved in the liaison with the related or subcontracting parties, to convey the requirements or coordination and attend meetings as required, at tender stage as no additional costs will be allowed for during the contract for such work.

The broad scope of work includes the following, but not limited to:

1. Trimming and removal of small trees, bushes and alike.
2. Cutting of Grass, removal of weeds and related
3. Treatment of weeds and areas using herbicides
4. General building and site cleaning and neatening including after spillage incidents. This will typically include:
  - a. Cleaning of Silt and sediment inside and around pump stations using spades, brooms and mops.
  - b. May contain typical solids and debris found in municipal sewage
5. Cleaning of areas where manholes may have over flowed.
6. Delivery and disposal of removed material to a suitable/approved waste management site.

**2. SITES**

The sites are all existing municipal water and wastewater infrastructure sites, located within a 20km radius from George central, including adjacent towns such a Wilderness, Herold's Bay, Victoria Bay, etc as well as in the towns of Uniondale and Haarlem. A figure indicating some of the site locations is indicated in Annexure 2.

The contractor shall make his own arrangements as far as water and communications on the site is concerned. Cellular telephone reception is generally good within the towns.

The contractor is advised that the possibility of theft and vandalism is high. Suitable security arrangements and/or operational policies and procedures must be made by the contractor in this regard.

**3. TRANSPORT**

The Service Provider shall be responsible for supplying his own transport on- and off-site for employees and equipment as well as for the removal/disposal of materials for the duration of the works packages.

All vehicles to be used for this contract are to be roadworthy and licensed for use on public roads at all times and must make provisions for the safe and lawful transportation of workers. Those vehicles used to transport debris removed from sewers must be able to do so in a safe and non-offensive manner and must have the Contractor's name and telephone number prominently displayed. All vehicles to be used for this contract must conform to the Road Traffic Act RTA, Act 93 of 1996. Copies of proof of licensing and the ownership should be submitted along with your tender document.

All vehicles, equipment and containers used on this contract must be in a serviceable condition and must be readily available for inspection by the Director: Civil Engineering Services to ensure that it complies with the specification and must meet with the approval of the employer.

The vehicle and equipment shall be owned by the tenderer. Proof of registration must be attached to the tender document. If the proof thereof is not attached, your tender for the specific item will not be considered for evaluation.

Extreme care must be taken to prevent any spillage and suitable tools shall be available to immediately clean up any spillage.

All vehicles shall be fitted with a vehicle tracking device which can be located at any time as well as travel log be reported if need be by the client.

The Tenderer shall attach the list of vehicles and equipment to be used for the execution of the tender to his/her tender document for evaluation purposes. The municipality reserves the right to inspect the proposed equipment to be used.

**4. APPLICABLE STANDARDS**

Not Applicable.

All requirements and references are in the project specification section.

**5. HEALTH AND SAFETY**

All work carried out, as well as equipment supplied, must fully meet and be in compliance with the requirements of the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations (2014) issued in terms of Section 43 of the Act.

The Contractor shall comply with all safety requirements and shall submit a Health and Safety Plan and File for approval if so requested by the client.

Please note that the requirements of the new construction regulations 2014 have been in effect from February 2014. The new regulations place additional legal duties upon contractors and sub-contractors. Although this health and safety specification includes much of the content of these new requirements, the contractor will be deemed to be familiar with the requirements of these regulations, and to have factored in all the duties placed upon contractors and sub-contractors in the tender.

A copy of the regulations can be viewed on the Department of Labour's website.

**5.1 Risk Registers**

A provisional Risk Register is provided in Part C5 of the document.

**5.2 COVID19 Directives**

Further to the regulations as set out in the Act, refer to Part C5 for the COVID 19 Health and Safety Specification Addendum : Applying the COVID19 Directive on Health and Safety in the workplace issued by the Minister in terms of Regulation 10(8) o the National Disaster Regulations that is applicable on the Contract.

**6. PROCEDURES AND MANAGEMENT**

The Contractor shall be contacted on an ad-hoc basis based, and the following procedures shall be followed and allowed for by the Contractor:

The Contractor shall keep a logbook of all instruction issued by the client. All items shall be signed off by the Employer.

A typical process of a planned requirements or works orders is indicated in the flowchart in Annexure 1.

**6.1 Identification Services Required:**

The Service Provider shall be notified by the Employer's Representative if any services are required.

Due to the uncertainty and fluctuation of the Municipality's requirements, no indication can be given as to the quantities of the above-mentioned quantity of services or works orders this contract. The Service Provider will therefore be required to supply the services in such quantities as may be required by the Municipality from time to time.

**6.2 Works Not to Interfere:**

The various operations that make up the Works will be operational throughout the Contract and/or completion of works orders. The Service Provider shall ensure that the Works do not affect operations without good reason and that there is access at all times.

The Employers Agent will support and assist as far as possible.

**6.3 Overtime Work on Site:**

Overtime on site will only be allowed if exclusively requested or approved by the Employer's representative. A written request with supporting evidence is required if the Supplier requests overtime work. Overtime work will only commence after the approval is received from the Employer's Representative. Working hours will be as per definition in paragraph 8.2.

**6.4 Sequence of the Works:**

The Service Provider shall be responsible for determining the sequence of the tasks per works package/order, in conjunction with the employer's representative and shall be captured in a works package program / schedule with detailed tasks and durations which shall be subject to the approval of the Employer's representative.

**6.5 Competent Personnel:**

Only competent personnel that have been adequately trained by the Service Provider shall execute all the required work.

**6.6 Communication:**

The Service Provider shall ensure that its representative is accessible by telephone, email and a cellular telephone connection to ensure that he can be reached during normal working hours.

The specific works package initiated by the George Municipality will list the specific contact details of relevant operating and maintenance personnel at the various installations.

**6.7 Works Scheduling and Approval:**

The Service Provider shall visit the site with the employer's representative and submit a detailed works programme prior to work commencing on site, unless stipulated as an emergency whereby submission is required as the emergency requires. The programme shall clearly indicate the detail and nature of work to be completed, which section of the works will be effected, how water will be handled, a detailed schedule clearly indicating the duration of work (kick-off date to date of commissioning).

Only once the works programme has been approved by the Employer, will the Service Provider be allowed to proceed with the Works.

The Works execution Programme to be submitted to the Employer, by the Service Provider shall;

- a) List the detailed tasks and duration of each task;
- b) List the plant, tools and equipment that will be used;
- c) Clearly identify all the major maintenance activities that may have a significant impact on the day to day operations of the site;
- d) Indicate hold points either on site or within the workshop as determined by GM;
- e) Indicate submission of required documentation;
- f) Take full cognizance of all the Service Provider's risks and obligations in terms of the Contract

**6.8 Inspection Reports (Applicable for Mechanical and Electrical Services)**

Photo Evidence shall be used as a report. Pictures of Site before and after shall be taken and presented to the employer's representative for approval and/or where advised, included in the invoicing package for payment.

**6.9 Call out to site:**

For the case where the Employer instruct the Contractor to go to site, the Contractor shall send a team of relevant technical personnel to address the task as instructed. This shall include the key personnel, as well as any assistants required to complete the work.

**6.10 Removal, inspection and reporting on the status of equipment:**

Not Applicable for this Scope of Work/Services.

**6.11 Refurbishment of equipment:**

Not Applicable for this Scope of Work/Services.

**7. MEASUREMENT AND PAYMENT**

Measurement and payment of services by the service provider will be broken down and handled as follows. The service provider and George Municipality will together agree on the quantities required for the specific works package and whereafter an official purchase order will be issued before any works are to be conducted.

**7.1 Preliminary and General****7.1.1 Insurances**

As described in the General and Special Conditions of Contract, this item will cover all contractual related insurance such as Contractor's all risk and Public Liability to the respective values specified.

**7.1.2 Health and Safety**

All costs related to compliance with Health and Safety requirements as specified under the respective sub section and in accordance with the scope of work tendered.

This is further split into initial Health and Safety plan and file submission and then further maintenance of compliance.

**7.2 Transport and Travelling**

The unit of measurement shall "Trip" as indicated in the Bills of Quantities and specifications. It is made known that all sites are within a radius of 20 km from George Central, with the exception of Uniondale and Haarlem which is priced as indicated. A trip is deemed a return trip between the service providers premises and the site or the George Municipalities workshops.

The rate shall include charges for overheads, fuel, driver, delivery, travelling time, loading, offloading, maintenance of vehicle, and profit for the respective plant or vehicle required.

Under the Day Works Schedule, these rates shall only be used under "Special Project" and approved conditions and these rates do not form part of the actual services rendered.

**7.3 Labour**

The unit of measurement shall be an hourly rate to supply the required labour as required and defined in the specific scope of work and specifications per service measured per hour. This is further split between the definitions of Normal Hours and After Hours/Overtime as specified elsewhere.

Under the Day Works Schedule, these rates shall be only be used under "Special Project" and approved conditions and these rates do not form part of the actual services rendered.

**7.4 Scope of Services**

Rates shall be for the services as specified in the respective scope of services and measured in the bills of quantities and include all plant required (wetted rates), transportation and labour for the successful completion of the service, measured in the unit as indicated in the Bills of Quantities.

The rate indicated in the Bills of Quantities shall allow for and include an upfront Meeting on Site, by either the contracts manager or foreman, with the Employers Representative to discuss scope, measure quantities and finalise works package in principal.

Disposal of removed material shall be included in the same rate.

As indicated in the Bills of Quantities, an extra over for services outside of the 20km radius of central George, for sites in Haarlem and Uniondale, an additional rate to cover time and travel must be included.

**7.5 Percentage Handling**

Where indicated and applicable, the service provider shall Tender the percentage handling charge applicable where rates are not tendered, and/or pricing by OEM supply or other services still has to be established. In this case the client may request that 3 or more quotations are obtained, subject to the scope of supply and services required, as well as estimated value.

**7.6 Payment:**

No work shall commence without an official purchase order.

Once the works order is successfully completed by the service provider, the employer's representative shall inspect the works and sign off with name, date and signature on the approved works order or works plan. This shall be used in support of the invoice when submitted, as described in the contract conditions.

Invoices shall clearly state the official client order number, tender number, site location/name and clients VAT Number.

**8. COMPLETION, PROGRAMME AND RESPONSE TIMES****8.1 Completion and Programme:**

The contract period for appointment is for a period of three (3) years from the date of the formal appointment.

The requirements regarding the programme of work / tasks during the contract period shall be communicated by the Employer, including the critical status of the task as well as the envisioned programming of the task, and it shall be agreed upon with the Contractor prior to commencement of any work.

**8.2 Working Hours:**

The working -or operational hours are classified as following:

- Normal time: 07:30 to 16:59, Monday to Friday
- Normal overtime: 17:00 to 07:29 Monday to Friday and 00:00 to 23:59 on Saturdays
- Sundays and Public holidays: non-working

Scheduled or non-emergency work, unless instructed by the Employer's representative, may not be done outside the normal time hours.

All work for this purpose shall be deemed to take place during normal working hours.

**8.3 Response Time:**

Not applicable for this scope of services.

**9. DISPOSAL OF MATERIAL**

All removed material shall be disposed of at suitable waste disposal/management site. Receipt/proof of disposal shall be kept by the contractor and submitted with the supporting documents for the invoice.

## **Scope of Works**

## **Part C3A**

No charges will be applicable for dumping. The contractor shall however arrange and ensure that all required permits and paperwork is in place and the correct procedure followed.

The employer will provide all relevant contact and logistical details applicable to disposal at the commencement of the contract.

### **10. NON-PERFORMANCE**

Should the service provider fail to perform in accordance with the agreed programme and allowed time, penalties applicable will be in line with that stated in the Specific Conditions of Contract.

**Section 2: Specifications**

**1. GRASS CUTTING**

The service implies the cutting of grassed areas at identified sites, using a lawnmower and/or brush cutter as specified.

The grass/lawn shall not be longer than 20mm in length after being cut.

**2. BUSH CLEARING AND TRIMMING**

Where deemed needed and/or identified, shrubs and bushes shall be trimmed and/or completely removed as instructed, using small tools or suitable methods.

**3. WEED MANAGEMENT**

This includes removal of weeds and/or eradication using herbicides in identified areas per site.

Herbicides to be sprayed on the affected or required areas only, using a suitable pressurized sprayer bottle and equipment. Herbicides to be mixed and used in accordance with the product supplier specifications.

Herbicides used shall be “industrial strength” suitable for the application with all consumables and related requirements priced in the rate.

**4. SITE CLEANING AFTER INCIDENT**

In the event of a spillage or overflow of sewage at a particular site, the service provider me be instructed to “Clean and Clear” the site.

Cleaning could typically include the following:

- Removal of silt, solids, dirt and debris on the side. Inside Building (If applicable) and outside within the boundaries of the site/where possible
- Cleaning by hosing or jetting of water and Mopping/drying of floors typically inside buildings and on critical walking areas.
  - Water to be supplied by the George Municipality if available and needed. Or Special arrangement to be made between parties.
- Disinfection where required.
- If so available and approved, drums may be on site and can be used for disposal of sewer solids and debris.

**5. DISPOSAL**

Disposal of cut grass, bushes and related material shall be managed by the service provider.

Removed grass, cuttings and associated material shall be safely strapped down and/or covered with net or canvas such that it cannot blow out when travelling.

Disposal shall be done at a suitable legal waste disposal/management site or facility identified and approved by the George municipality.

## **Scope of Works**

## **Part C3A**

A Receipt/proof of disposal shall be kept by the contractor and submitted with the supporting documents for the invoice.

No charges will be applicable for dumping. The contractor shall however arrange and ensure that all required permits and paperwork is in place and the correct procedure followed.

The employer will provide all relevant contact and logistical details applicable to disposal at the commencement of the contract.

**GEORGE MUNICIPALITY****DIRECTORATE: CIVIL ENGINEERING SERVICES****TENDER NUMBER: T/ING/012/2020****TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS****Scope of Works (Part C3B) – SEWER SUCTION AND  
RELATED SERVICES****Section 1: General****1. OVERVIEW****1.1 GENERAL REQUIREMENTS**

The purpose of the contract is to procure specialised services of a Contractor or Service Provider for ad-hoc maintenance, clearing, inspection and cleansing work at George's Municipality's existing water and wastewater infrastructure for a period of three (3) years from the date of appointment. The work by the Contractor shall be supplementary to the Municipality's inhouse Technical Services and shall be on an ad-hoc basis.

The Municipality requires a Contractor who can, at planned notice or at short notice, address requirements relating to cleaning/clearing and unblocking municipal sewer systems as well as specialised cleaning and related services in and around on the existing infrastructure.

All plant, consumables and labour items required to ensure a complete, functional, and compliant service must be provided as part of the tender offer.

**1.2 MINIMUM REQUIREMENTS FOR TENDERERS TO COMPLY**

Tenderers shall ideally be an established service provider currently offering the said services and situated within a radius of 20 km from central George to ensure cost effective and efficient delivery, which will be used for eligibility checks. Refer Section 8 for further requirements.

The Tenderer must have key personnel with the relevant qualifications and/or experience to conduct the work at hand. Refer Schedule of Pricing for specific personnel requirements.

**1.2.1 Key Resources**

The following sections cover the minimum requirements in order to complete expected works orders under this section, and where applicable must be met in the Pre-Qualification requirements, with respective Minimum scoring to be considered for appointment.

All requirements listed must be completed in the applicable schedules, with supporting documentation submitted as part of the tender submission.

**Personnel:**

The minimum requirements are described in Form 2.1.3 of the Returnable Schedule

Updated CV of all Key personnel as well as supporting documents/certificates must be submitted with the tender.

**Minimum Plant and Equipment Requirements**

- 1 x Long Wheeled base or suitable Light Delivery Vehicle (LDV) rated to carry a minimum of 1000kg /1 Ton load.
- 1 x Higher Pressure Jet Machine and suitably sized water tank
- 1 x Drain Rod Set, with applicable attachments for manual unblocking
- 1 x Tipper Truck with a minimum load capacity of 3m<sup>3</sup> to 6m<sup>3</sup> for removal and cleaning of Drums.
- 1 x Vacuum Tanker Truck/Super Sucker with a minimum capacity of 8000 L
- 1 x Diesel Driven Self Priming Sewage Pump Rig as Specified
- 1 x Sewer Camera Inspection Rig.
- Small Tools such as spades, rakes, brooms, picks, pressurized sprayer bottles.

Vehicles and plant listed here must be owned by the tenderer. Details of vehicle and plant offered by the tenderer shall be completed in the applicable table in the returnable schedules.

**1.3 BROAD SCOPE OF SERVICES**

This contract will be executed as a Main Contract, with specialist sub-contractors where required. The contractor shall liaise closely with the Municipal Technical Department as well as with their respective work forces/teams associated to the work.

The Municipal Technical Department shall lead the coordination with the Contractor for the associated requirements. Refer to the typical process/proceedings flow diagram provided in Annexure 1. The Contractor shall allow for all costs involved in the liaison with the related or subcontracting parties, to convey the requirements or coordination and attend meetings as required, at tender stage as no additional costs will be allowed for during the contract for such work.

The broad scope of work includes the following, but not limited to:

1. Unblocking of Pipeline Blockages using Manual Methods and jetting equipment
2. Tracing of Sewer Lines and Uncovering of Existing Manholes
3. Cleaning of Pump Station Sumps, Treatment Plant Structures, Manholes, Catch Pits, Sand Channels and Septic/Conservancy Tanks,
4. Cleaning and Removal of Sewer Debris Drums and Pump Stations.
5. Camera Inspection and Reports of Sewer Lines
6. Delivery and disposal of removed material to a suitable/approved waste management/treatment facility site.

**2. SITES**

The sites are all existing municipal water and wastewater infrastructure sites, located within a 20km radius from George central, including adjacent towns such as Wilderness, Herold's Bay, Victoria Bay, etc as well as in the towns of Uniondale and Haarlem. A figure indicating some of the site locations is indicated in Annexure 2.

The contractor shall make his own arrangements as far as water and communications on the site is concerned. Cellular telephone reception is generally good within the towns.

The contractor is advised that the possibility of theft and vandalism is high. Suitable security arrangements and/or operational policies and procedures must this be made by the contractor in this regard.

**3. TRANSPORT AND VEHICLES**

The Service Provider shall be responsible for supplying his own transport on- and off-site for employees and equipment as well as for the removal/disposal of materials for the duration of the works packages.

All vehicles to be used for this contract are to be roadworthy and licensed for use on public roads at all times and must make provisions for the safe and lawful transportation of workers. Those vehicles used to transport debris removed from sewers must be able to do so in a safe and none-offensive manner and must have the Contractor's name and telephone number prominently displayed. All vehicles to be used for this contract must conform to the Road Traffic Act RTA, Act 93 of 1996. Copies of proof of licensing and the ownership should be submitted along with your tender document.

All vehicles, equipment and containers used on this contract must be in a serviceable condition and must be readily available for inspection by the Director: Civil Engineering Services to ensure that it complies with the specification and must meet with the approval of the employer.

The vehicle and equipment shall be owned by the tenderer. Proof of registration must be attached to the tender document. If the proof thereof are not attached, your tender for the specific item will not be considered for evaluation.

Extreme care must be taken to prevent any spillage and suitable tools shall be available to immediately clean up any spillage.

All vehicles shall be fitted with a vehicle tracking device which can be located at any time as well as travel log be reported if need be by the client.

The Tenderer shall attach the list of vehicles and equipment to be used for the execution of the tender to his/her tender document for evaluation purposes. The municipality reserves the right to inspect the proposed equipment to be used.

**4. APPLICABLE STANDARDS**

Not Applicable.

All requirements and references are in the project specification section.

**5. HEALTH AND SAFETY**

All work carried out, as well as equipment supplied, must fully meet and be in compliance with the requirements of the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations (2014) issued in terms of Section 43 of the Act.

The Contractor shall comply with all safety requirements and shall submit a Health and Safety Plan and File for approval if so requested by the client.

Please note that the requirements of the new construction regulations 2014 have been in effect from February 2014. The new regulations place additional legal duties upon contractors and sub-contractors. Although this health and safety specification includes much of the content of these new requirements, the contractor will be deemed to be familiar with the requirements of these regulations, and to have factored in all the duties placed upon contractors and sub-contractors in the tender.

A copy of the regulations can be viewed on the Department of Labour's website.

5.1 **Risk Registers**

A provisional Risk Register is provided in Part C5 of the document.

5.2 **COVID19 Directives**

Further to the regulations as set out in the Act, refer to Part C5 for the COVID 19 Health and Safety Specification Addendum : Applying the COVID19 Directive on Health and Safety in the workplace issued by the Minister in terms of Regulation 10(8) o the National Disaster Regulations that is applicable on the Contract.

6. **PROCEDURES AND MANAGEMENT**

The Contractor shall be contacted on an ad-hoc basis based, and the following procedures shall be followed and allowed for by the Contractor:

The Contractor shall keep a logbook of all instruction issued by the client. All items shall be signed off by the Employer.

A typical process of a planned requirements or works orders is indicated in the flowchart in Annexure 1.

6.1 **Identification Services Required:**

The Service Provider shall be notified by the Employer's Representative if any services are required.

Due to the uncertainty and fluctuation of the Municipality's requirements, no indication can be given as to the quantities of the above-mentioned services or works orders under this contract. The Service Provider will therefore be required to supply the services in such quantities as may be required by the Municipality from time to time.

6.2 **Works Not to Interfere:**

The various operations that make up the Works will be operational throughout the Contract and/or completion of works orders. The Service Provider shall ensure that the Works do not affect operations without good reason and that there is access at all times.

The Employers Agent will support and assist as far as possible.

All works relating to cleaning of pump station sumps and water treatment structures will be done under the strict supervision and control of the George Municipality's operations staff.

6.3 **Overtime Work on Site:**

Overtime on site will only be allowed if exclusively requested or approved by the Employer's representative. A written request with supporting evidence is required if the Supplier requests overtime work. Overtime work will only commence after the approval is received from the Employer's Representative. Working hours will be as per definition in paragraph 8.2.

**6.4 Sequence of the Works:**

The Service Provider shall be responsible for determining the sequence of the tasks per works package/order, in conjunction with the employer's representative and shall be captured in a works package program / schedule with detailed tasks and durations which shall be subject to the approval of the Employer's representative.

**6.5 Competent Personnel:**

Only competent personnel that have been adequately trained by the Service Provider shall execute all the required work.

**6.6 Communication:**

The Service Provider shall ensure that its representative is accessible by telephone, email and a cellular telephone connection to ensure that he can be reached during normal working hours.

The specific works package initiated by the George Municipality will list the specific contact details of relevant operating and maintenance personnel at the various installations.

**6.7 Works Scheduling, Method Statement and Approval:**

The Service Provider shall visit the site with the employer's representative and submit a detailed works programme and method statement prior to work commencing on site, unless stipulated as an emergency whereby submission is required as the emergency requires. The programme shall clearly indicate the detail and nature of work to be completed, which section of the works will be effected, how water will be handled, a detailed schedule clearly indicating the duration of work (kick-off date to date of commissioning).

Only once the works programme has been approved by the Employer, will the Service Provider be allowed to proceed with the Works.

The Works execution Programme to be submitted to the Employer, by the Service Provider shall;

- a) List the detailed tasks and duration of each task;
- b) List the plant, tools and equipment that will be used;
- c) Clearly identify all the major maintenance activities that may have a significant impact on the day to day operations of the site;
- d) Indicate hold points either on site or within the workshop as determined by GM;
- e) Indicate submission of required documentation;
- f) Take full cognizance of all the Service Provider's risks and obligations in terms of the Contract

**6.8 Inspection Reports**

Photo and/or video evidence shall be used as a report. Pictures of Site and conditions before and after shall be taken and presented to the employer's representative for approval and/or where advised, included in the invoicing package for payment.

An electronic inspection report and video footage (Where applicable and requested) must be completed and send via email or memory-stick / flash-drive to the employer's representative including all required test reports and photos after every service.

**6.9 Call out to site:**

For the case where the Employer instruct the Contractor to go to site, the Contractor shall send a team of relevant technical personnel to address the task as instructed. This shall include the key personnel, as well as any assistants required to complete the work.

**6.10 Removal, inspection and reporting on the status of equipment:**

Not Applicable for this Scope of Work/Services.

**6.11 Refurbishment of equipment:**

Not Applicable for this Scope of Work/Services.

**7. MEASUREMENT AND PAYMENT**

Measurement and payment of services by the service provider will be broken down and handled as follows. The service provider and George Municipality will together agree on the quantities required for the specific works package and whereafter an official purchase order will be issued before any works are to be conducted.

**7.1 Preliminary And General****7.1.1 Insurances**

As described in the General and Special Conditions of Contract, this item will cover all contractual related insurance such as Contractor's all risk and Public Liability to the respective values specified.

**7.1.2 Health and Safety**

All costs related to compliance with Health and Safety requirements as specified under the respective sub section and in accordance with the scope of work tendered.

This is further split into initial Health and Safety plan and file submission and then further maintenance of compliance.

**7.2 Transport and Travelling**

The unit of measurement shall "Trip" as indicated in the Bills of Quantities and specifications. It is made known that all sites are within a radius of 20 km from George Central, with the exception of Uniondale and Haarlem which is priced as indicated. A trip is deemed a return trip between the service providers premises and the site or the George Municipalities workshops.

The rate shall include charges for overheads, fuel, driver, delivery, travelling time, loading, offloading, maintenance of vehicle, and profit for the respective plant or vehicle required.

Under the Day Works Schedule, these rates shall only be used under "Special Project" and approved conditions and these rates do not form part of the actual services rendered

**7.3 Labour**

The unit of measurement shall be an hourly rate to supply the required labour as required and defined in the specific scope of work and specifications per service measured per hour. This is further split between the definitions of Normal Hours and After Hours/Overtime as specified elsewhere.

Under the Day Works Schedule, these rates shall only be used under "Special Project" and approved conditions and these rates do not form part of the actual services rendered.

**7.4 Scope of Services**

Rates shall be for the services as specified in the respective scope of services and measured in the bills of quantities and include all plant required (wetted rates),

transportation and labour for the successful completion of the service, measured in the unit as indicated in the Bills of Quantities.

The rate indicated in the Bills of Quantities shall allow for and include an upfront Meeting on Site, by either the contracts manager or foreman, with the Employers Representative to discuss scope, measure quantities and finalise works package in principal.

Rates shall be deemed wet rates for all plant and equipment.

Where services are measure per m, the total length of meters to be remunerated per works order, will be from the start/inception manhole to the next.

Disposal of removed material shall be included in the same rate.

As indicated in the Bills of Quantities, an extra over for services outside of the 20km radius of central George, for sites in Haarlem and Uniondale, an additional rate to cover time and travel must be included.

#### 7.5 **Percentage Handling**

Where indicated and applicable, the service provider shall Tender the percentage handling charge applicable where rates are not tendered, and/or pricing by OEM supply or other services still has to be established. In this case the client may request that 3 or more quotations are obtained, subject to the scope of supply and services required, as well as estimated value.

#### 7.6 **Payment:**

No work shall commence without an official purchase order.

Once the works order is successfully completed by the service provider, the employer's representative shall inspect the works and sign off with name, date and signature on the approved works order or works plan. This shall be used in support of the invoice when submitted, as described in the contract conditions.

Invoices shall clearly state the official client order number, tender number, site location/name and clients VAT Number.

### 8. **COMPLETION, PROGRAMME AND RESPONSE TIMES**

#### 8.1 **Completion and Programme:**

The contract period for appointment is for a period of three (3) years from the date of the formal appointment.

The requirements regarding the programme of work / tasks during the contract period shall be communicated by the Employer, including the critical status of the task as well as the envisioned programming of the task, and it shall be agreed upon with the Contractor prior to commencement of any work.

#### 8.2 **Working Hours:**

The working - or operational hours are classified as following:

- Normal time: 07:30 to 16:59, Monday to Friday
- Normal overtime: 17:00 to 07:29 Monday to Friday and 00:00 to 23:59 on Saturdays
- Sundays and Public holidays: 00:00 to 23:59

Scheduled or non-emergency work, unless instructed by the Employer's representative, may not be done outside the normal time hours.

All work for this purpose shall be deemed to take place during normal working hours unless otherwise advised.

**8.3 Response Time:**

Given the nature of the work required, it is imperative that the Contractor is available and able to effectively service the Municipality on short notice when called upon. As such, a contractual response time will be in effect from the moment the Designated Party from the Municipality contacts the Contractor, with a request for assistance, per specific request.

All electronic / verbal communication will be assumed to be received immediately and response times will be taken from the time it was sent by the Employer.

Normal Request:

During normal working hours (as defined in C2.1D Pricing Instructions) the Contractor must have the duly required personnel on-site within two (2) hours of the task request or as approved in the works order package.

Emergency Request:

In cases where the Employer deems a situation to be an emergency or critical, and communicated as such, the Contractor must have the duly required personnel on-site within one (1) hour of the task request or as otherwise approved by the employers representative.

A 5-minute grace period will apply per call-out, with the final time decision to be made solely at the discretion of the Employer.

Should the Contractor or his designated key personnel fail to be on time (grace period included), then a financial penalty will apply. The penalty rate shall be equal to 2 x the key personnel's hourly rate (the key personnel of the Contractor who was required to be on site) and shall be charged on a hourly basis for the amount of hours (or part thereof) that Contractor is late. The Client will keep record of all applicable penalties during the month period, communicated with the Contractor, and deduct the appropriate amounts from the Contractor's claim every month. The Client reserves the right to roll-over penalty amounts to a following month.

**9. DISPOSAL OF MATERIAL**

All removed material shall be disposed of at suitable waste disposal/management site. Receipt/proof of disposal shall be kept by the contractor and submitted with the supporting documents for the invoice.

No charges will be applicable for dumping. The contractor shall however arrange and ensure that all required permits and paperwork is in place and the correct procedure followed.

The employer will provide all relevant contact and logistical details applicable to disposal at the commencement of the contract.

**10. NON-PERFORMANCE**

Should the service provider fail to perform in accordance with the agreed programme and allowed time as per the works package, penalties applicable will be in line with that stated in the Specific Conditions of Contract, unless otherwise indicated in the scope of works section.

In emergency conditions, this may be increased 10% of the works package value per day.

11. **CONSEQUENTIAL DAMAGES**

Should the non-performance of the service provider bring about any consequential damages to property and/or clients of the Employer, the service provider and/or their insurers shall be held liable. All caution shall thus be taken to manage and remedy situations with agreement and approvals of the employer.

**Section 2: Specifications****1. CLEANING AND UNBLOCKING OF SEWER PIPELINES**

This specification covers the requirements for the routine and emergency cleaning of sewer pipelines including manholes, and cleaning of blocked sewers using high pressure water jetting equipment and vacuum trucks on an “as and when” required basis.

The sewer cleaning includes the cleaning, unblocking and removal of sand, sediment, fatty deposits, slime, sludge, tree roots and other foreign matter. All silt, debris deposits pipe walls, etc. must be removed completely.

The Tenderer shall consider all, circumstances, type of sewers, age and work environment appropriately and select the appropriate jetting nozzle and flow rate.

Care shall be taken to avoid excessive pressures when using jetting equipment corroded or damaged pipelines to avoid further damage. The minimum pressure necessary to clean the sewers must be used to avoid any structural damage to the sewer.

All foreign material such as rags, fats, bacteriological slimes, roots, soft encrustations grease shall be removed. The Tenderer shall continuously inspect the removed debris to ensure the correct machine and nozzle is used. A record of the type of debris shall be kept to allow the municipal technical representative to consider certain sewers for proactive cleaning programme. The Tenderer shall specifically record sewers containing sediment, fat, oil and grease build-up.

All material shall be collected by means of a sand-trap, weir, dam, elbow or blocking device in the downstream manhole and the debris shall be removed from the pipeline.

The Tenderer shall not allow cleaning material to pass further than the downstream manhole.

The Tenderer shall implement all the necessary safety measures and provide the lights, guards, fencing and watching necessary for the safety and convenience of the public.

Manholes covers and frames are to be cleaned before closing and the cover properly seated in the frame.

The stationary time of a nozzle shall under no circumstances exceed one minute and where blockages in a single location are problematic, the nozzle shall be moved forwards and backwards to ensure that the stationary time at a fixed point does not exceed one minute.

**2. TRACING OF SEWER LINES AND UNCOVERING OF MANHOLES**

The purpose of this service is to track/trace gravity sewer lines and more importantly manholes that have grown closed by grass and vegetation.

With the assistance and/or instruction by the Employer, the service provider shall investigate, clear the area around the manholes and inspect for correct operation.

Should the manholes be blocked, the service provider will be required to unblock and clean, ideally via manual rodding method, alternatively via high pressure jetting methods.

Where required, the manhole and surrounds shall be treated with sewer chemicals and/or herbicides.

**3. CLEANING OF PUMP STATION SUMPS, MANHOLE AND RELATED STRUCTURES**

This specification covers the requirements for the routine and emergency cleaning of pump station sumps, treatment works structures, manholes, catch pits, sand channels and septic/conservancy Tanks,

The service provider and employer shall plan all activities as prescribed in section 1 – General

There is no prescribed method for the desilting of the sewage pump stations. The contractor may utilize any mechanical method which achieves the required result. Cleaning operation must be performed with a vehicle with a minimum capacity of 8 cubic meters. The equipment must be able to sustain a free airflow of 1000 litres of free air flows per second. It must have a suitable size flexible suction hose capable of continuous running. Wet or dry material removed should be contained in a sealed container. Debris tank discharge will be in the rear by hydraulically opened door to a minimum discharge angle of 50 degrees.

The use of manual labour only will not be permitted due to the constraints such as volume of sewage debris to be removed, the restrictive size and access of the structures and the time required to complete work. Some manual labour e.g. for setting up equipment and support will be required.

The Tenderer may be required to shut off the sewage flow into the pump station under supervision of municipal technical representative. This will be accomplished by activating the necessary shut-off valves, hand-stops or inserting inflatable bladders into the pipes.

At times during the cleaning process over pumping may be required and the Tenderer will be asked to provide such equipment. The Tenderer must include in his rates for the cost of over pumping.

There may be excess sewage liquid trapped in the pump station structure after shutting off the flows which must be pumped back into the sewer system. It shall not be discharged onto open ground or into any storm water system.

No inlet works shall be plugged by the Tenderer without the express written or verbal permission of the municipal technical representative who may impose special conditions regarding precautions to be taken. In any event the Tenderer shall be responsible for ensuring that the backing up of sewage does not cause flooding or nuisance.

Due to the dangers attached to the use of bladders, the contractor shall provide a safety plan with a method statement to use if bladders are used.

The Tenderer shall notify the municipal technical representative immediately of any defects discovered in the wet well during the course of performing the contracted works.

After removing excess sewage liquid from the top of the debris, the Tenderer will be required to remove all sand, sludge, debris etc. from the pump station and place this sewage debris into closed containers or vehicles for disposal at the sewerage treatment works (each town has a treatment works).

After all the sewage debris/silt has been removed from the pump station; the walls of the structure must be cleaned using high pressure water jetting. When the pump station is clean, the flow must be reinstated by activating the valves or removing of bladders, the cover shall be closed, locked where necessary and the area tidied up.

The work must be completed on the day stipulated unless otherwise permitted by the municipality technical representative. No material may be stored overnight on site. Material removed from site must be transported in watertight vessels to prevent spillage. Areas

where waste material has been spilt shall be cleared up for removal, washed and disinfected with chloride of lime.

A penalty of R5,000.00 per occurrence for any spillage of transported material on public roads will be deducted from any monies due.

The Tenderer will be required to arrange for tipping of all sewage debris with the sewerage treatment plant site management and will be responsible for the sewage/silt sludge material at the plant which include, access and times of tipping, etc.

#### 4. **VACUUM TANKER TRUCK/SUPER SUCKER**

The vacuum / suction unit may have the vacuum created by either airflow or roots type blowers.

Suction shall be via a suction pipe of 100 mm minimum diameter and shall effectively pick up wet and dry materials to a depth of up to 7 m (from cover to invert level of manhole / catchpit).

Vacuum trucks shall be fitted completed with sufficient piping and accessories to successfully conduct the required work, as well as the following prescribed equipment:

- Safety/first aid kit
- Manhole lifter
- Pick
- Spade
- Sledge hammer
- Small bow saw
- 20mm dia nylon rope (min 20m long)
- Small hatchet
- Pointed or penetrating nozzle (forward blaster)
- Gas detector.

The rate for vacuum tanker trucks will include for all drivers/operators and assistant/s, fuel as described in the general section.

#### 5. **HIGH PRESSURE JET MACHINE/EQUIPMENT**

Must be capable of providing a jetting pressure of at ideally 100 bar at a flow rate of at least 120 litres per minute, measured at the pump, or a maximum to suit a petrol/diesel driven motor/driver.

The jetting hose shall be a minimum of 20 mm nominal diameter with a minimum operational length of 100 metres at all times.

The jetting hose shall be wound onto a hose reel, which is power driven in both the clockwise and anti-clockwise directions..

All units shall be equipped with a water tank that must be filled through an approved pressure break, which shall be a minimum of twice the feed diameter above the spill over level.

The rate for the high pressure jet machines will include for all drivers/operators and assistant/s, transport, fuel, root cutting equipment and a full range of nozzles, including forward blasters for the breaking of blockages.

All water to be used for this service shall be free issued by the George Municipality. Subject to the site and proximity to the nearest Technical Workshop/Store or Wastewater Treatment works, the George Municipality will decide whether potable water or treated wastewater is to be used.

6. **BUCKET MACHINES/RIGS**

The service provider shall make available if so requested and instructed by the Employer, an extrusion type bucketing/pigging system to clean sewer lines.

The equipment shall comply with the following minimum requirements:

- Must be hydraulically driven by an engine producing a line pull of at least 2 tons.
- Typically using surface hung rollers will be acceptable for this tender.
- With buckets/accessories to suit the typical pipeline sizes as indicated in the Bills of Quantities.

The rate is to include for all labour, operators and assistants, transport, fuel, buckets, dumping costs and all other ancillary equipment.

7. **OVERPUMPING/TEMPORARY PUMPING EQUIPMENT.**

The service provider shall price and make available, if so requested and instructed by the George Municipality, a separate diesel driven pump which can be used in emergency or planned situations, either to over pump sewage while working in pump station sumps, or to assist in an emergency/breakdown situation. This pump shall comply with the following minimum requirements:

- Pumps shall be of the self-priming type with a minimum of NB 150mm Suction Port and NB 100 mm discharge port, safely coupled to a diesel driven motor which is suitable sized for the duty, both mounted on a suitably sized and rated trailer for mobile functionality between the various sites. The pumpset shall incorporate a suitably sized diesel storage tank as well as all controls and protection typically associated with such portable trailer sets.
- Pumps shall be fitted with a non-clog vortex or channel type impellers, with a minimum solids handling of 80mm, and be capable of doing a the following nominal duty point: **Flow rate/Q of 20 l/s at 20m Head , with a maximum of 8 m suction lift.**

- Pumps sets shall be capable of auto priming and dry running and come complete with all suitably sized/lengths of flexible and/or lay flat pipework, couplings and other ancillary equipment to suit the over pumping application.
- All equipment will be operated by as many skilled operatives as considered necessary by the service provider. At least one skilled operator shall hold a current vehicle driving license, suitable for the vehicle and trailer being used. The use of all the above mentioned equipment will be at the discretion of the district manager or his/her representative

**8. CAMERA INSPECTIONS AND REQUIREMENTS**

Where required and instructed, the Contractor shall record inspections in a PACP format and the video shall be recorded in an extra-high quality CD/DVD format. The title block shall include the following information:

- Date
- Camera operator's identification (Name, ID number, etc.)
- Sewer segment number. Segment numbers shall be assigned by the Engineer or Employer Representative
- Upstream manhole number.
- Downstream manhole number.
- Size of sewer pipe.
- Pipe material and lining method.
- Direction of movement of camera and direction of normal flow.
- Location of service connections indicated by clock position and with counter distance in feet from beginning manhole's centreline.
- Location (start and end counter distances in meter from the beginning manhole's centreline) and description of obstructions, structural defects, longitudinal and/or circumferential cracking, joints including open and/or offset joints, ovality, leakage or evidence thereof, break in connections, protruding connections, mineral deposits, roots, previous repairs, deposits on pipe walls, sags, and other abnormalities with respect to the sewer's condition with counter distance in feet from the beginning manhole's centreline. Contractor shall use PACP standardized defect codes.
- CAMERA Contractor's log shall contain the same information.

The Contractor shall present inspection video and inspection logs on CD/DVD disk. A continuous image in complete conformance with these specifications with a full view of the internal pipe surface is required. Contractor shall re-clean and televise any segment for which the video does not present a clear image of the internal pipe surface at all times, and/or is accompanied by an incomplete inspection log.

The CD/DVD shall visually display, at a minimum, CAMERA Contractor's name, project name, date of inspection, pipe segment number, manhole numbers or lateral lot numbers. The distance between manholes shall be verified by measuring tape. If the counter

distance and the taping differ by more than 600mm per 30 meter, the run shall be re-televised by CAMERA Contractor.

The CD/DVD shall be maintained and delivered in a hard case, which shall display the project name, project number, date of inspection, manhole segment number(s) inspected, and camera operator's identification. No segment shall be split between two disks. A disk may have multiple segments, so long as an entire section is on one disk. Original disks of all sections will be submitted to the George Municipality as a part of the closeout submittals along with the respective Camera inspection field logs to be reviewed for completeness and soundness of construction.

Acceptance of camera inspection report as described in and subject to the requirement above.

Any of following, but not limited to the following observations shall be considered defects which must listed in inspection log:

- Any bellies in a joint of pipe.
- Joint separations.
- Offset joints.
- Chips in pipe ends.
- Cracked or damaged pipe or evidence of the presence of an external object bearing upon the pipe (rocks, roots, etc.).
- Infiltration.
- Roots.
- Debris or other foreign objects inside of pipe.
- Other obvious deficiencies when compared to approved plans, permits, and/or minimum standards.

## 9. DISPOSAL

Disposal of removed debris will be into 140 to 210L drums provided (where applicable) at each site. These drums must be filled and ultimately emptied and carted an approved disposal site via the tipper truck or LDV.

Any and all other material/debris removed from the sewer system shall also be disposed at a suitable legal waste disposal/management site or facility identified and approved by the George municipality.

A log and/or receipt/proof of disposal shall be kept by the contractor and submitted with the supporting documents for the invoice.

No charges will be applicable for dumping. The contractor shall however arrange and ensure that all required permits and paperwork is in place and the correct procedure followed.

The employer will provide all relevant contact and logistical details applicable to disposal at the commencement of the contract.

**GEORGE MUNICIPALITY****DIRECTORATE: CIVIL ENGINEERING SERVICES****TENDER NUMBER: T/ING/012/2020****TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS****Scope of Works (Part C3C) – MINOR CIVIL WORKS****Section 1: General****1. OVERVIEW****1.1 GENERAL REQUIREMENTS**

The purpose of the contract is to procure specialised services of a Contractor or Service Provider for ad-hoc Minor Civil and Building Works at George's Municipality's existing water and wastewater infrastructure for a period of three (3) years from the date of appointment. The work by the Contractor shall be supplementary to the Municipality's inhouse Technical Services and shall be on an ad-hoc basis.

The Municipality requires a Contractor who can, at planned notice, address small scale building and civil works as typically summarised below and measured in the Bills of Quantities in and around on the existing wastewater infrastructure.

All plant, consumables and labour items required to ensure a complete, functional, and compliant service must be provided as part of the tender offer.

**1.2 MINIMUM REQUIREMENTS FOR TENDERERS TO COMPLY**

Tenderers must be an established Civil Contracting Business situated in South Africa, but must be able to be on a Site within a radius of 20 km from central George within 24 hours to 48 hours of notification to commence work, to ensure cost effective and efficient delivery, which will be used for eligibility checks.

**1.2.1 Key Resources**

The following sections cover the minimum requirements in order to complete expected works orders under this section, and where applicable must be met in the Pre-Qualification requirements, with respective Minimum scoring to be considered for appointment.

All requirements listed must be completed in the applicable schedules, with supporting documentation submitted as part of the tender submission.

**Personnel:**

The minimum requirements are described in Form 2.1.3 of the Returnable Schedule

Updated CV of all Key personnel as well as supporting documents/certificates must be submitted with the tender.

**Minimum Plant and Equipment Requirements**

- 1 x Long Wheeled base or suitable Light Delivery Vehicle (LDV) rated to carry a minimum of 1000kg /1 Ton load.

- 1 x Tipper Truck with a minimum load capacity of 3m<sup>3</sup> to 6m<sup>3</sup> for cartage of sand/stone and related.
- Small Tools related to civil and building work
- Proof of Hire Arrangement for Digger Loader and/or Excavator for as and when needed.

Vehicles and plant listed here must be owned by the tenderer. Details of vehicle and plant offered by the tenderer shall be completed in the applicable table in the returnable schedules.

### 1.3 **BROAD SCOPE OF SERVICES**

This contract will be executed as a Main Contract, with specialist sub-contractors where required. The contractor shall liaise closely with the Municipal Technical Department as well as with their respective work forces/teams associated to the work.

The Municipal Technical Department shall lead the coordination with the Contractor for the associated requirements. Refer to the typical process/proceedings flow diagram provided in Annexure 1. The Contractor shall allow for all costs involved in the liaison with the related or subcontracting parties, to convey the requirements or coordination and attend meetings as required, at tender stage as no additional costs will be allowed for during the contract for such work.

The broad scope of work includes the following, but not limited to:

1. Installation of new and repairs to existing fencing, gates and related.
2. Repairs/refurbishment and of manholes, manhole covers and related
3. Small scale concrete work and brickwork
4. Small scale building work such as security and/or toilet structures
5. Supply of related civil works materials as and when needed
6. Pipeline repairs as and when needed.

### 2. **SITES**

The sites are all existing municipal water and wastewater infrastructure sites, located within a 20km radius from George central, including adjacent towns such a Wilderness, Herold's Bay, Victoria Bay, etc as well as in the towns of Uniondale and Haarlem. A figure indicating some of the site locations is indicated in Annexure 2.

The contractor shall make his own arrangements as far as water and communications on the site is concerned. Cellular telephone reception is generally good within the towns.

The contractor is advised that the possibility of theft and vandalism is high. Suitable security arrangements and/or operational policies and procedures must this be made by the contractor in this regard.

### 3. **TRANSPORT AND VEHICLES**

The Service Provider shall be responsible for supplying his own transport on- and off-site for employees and equipment as well as for the removal/disposal of materials for the duration of the works packages.

All vehicles to be used for this contract are to be roadworthy and licensed for use on public roads at all times and must make provisions for the safe and lawful transportation of workers. Those vehicles used to transport debris removed from sewers must be able to do so in a safe and none-offensive manner and must have the Contractor's name and telephone number prominently displayed. All vehicles to be used for this contract must conform to the Road Traffic Act RTA, Act 93 of 1996. Copies of proof of licensing and the ownership should be submitted along with your tender document.

All vehicles, equipment and containers used on this contract must be in a serviceable condition and must be readily available for inspection by the Director: Civil Engineering Services to ensure that it complies with the specification and must meet with the approval of the employer.

The vehicle and equipment shall be owned by the tenderer. Proof of registration must be attached to the tender document. If the proof thereof are not attached, your tender for the specific item will not be considered for evaluation.

Extreme care must be taken to prevent any spillage and suitable tools shall be available to immediately clean up any spillage.

All vehicles shall be fitted with a vehicle tracking device which can be located at any time as well as travel log be reported if need be by the client.

The Tenderer shall attach the list of vehicles and equipment to be used for the execution of the tender to his/her tender document for evaluation purposes. The municipality reserves the right to inspect the proposed equipment to be used.

#### 4. **APPLICABLE STANDARDS**

For the purpose of this Contract the latest issues of the following Standard Specifications for Civil Engineering Construction, applicable at the date of tender advertisement, shall apply -

SANS 1200 (COMPLETE COLLECTION) are bound into this document shall apply:

The term "project specifications" appearing in any of the SANS 1200 standardised specifications must be replaced with the terms "scope of work"

#### 5. **HEALTH AND SAFETY**

All work carried out, as well as equipment supplied, must fully meet and be in compliance with the requirements of the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations (2014) issued in terms of Section 43 of the Act.

The Contractor shall comply with all safety requirements and shall submit a Health and Safety Plan and File for approval if so requested by the client.

Please note that the requirements of the new construction regulations 2014 have been in effect from February 2014. The new regulations place additional legal duties upon contractors and sub-contractors. Although this health and safety specification includes much of the content of these new requirements, the contractor will be deemed to be familiar with the requirements of these regulations, and to have factored in all the duties placed upon contractors and sub-contractors in the tender.

A copy of the regulations can be viewed on the Department of Labour's website.

##### 5.1 **Risk Registers**

A provisional Risk Register is provided in Part C5 of the document.

**5.2 COVID19 Directives**

Further to the regulations as set out in the Act, refer to Part C5 for the COVID 19 Health and Safety Specification Addendum : Applying the COVID19 Directive on Health and Safety in the workplace issued by the Minister in terms of Regulation 10(8) o the National Disaster Regulations that is applicable on the Contract.

**6. PROCEDURES AND MANAGEMENT**

The Contractor shall be contacted on an ad-hoc basis based, and the following procedures shall be followed and allowed for by the Contractor:

The Contractor shall keep a logbook of all instruction issued by the client. All items shall be signed off by the Employer.

A typical process of a planned requirements or works orders is indicated in the flowchart in Annexure 1.

**6.1 Identification Services Required:**

The Service Provider shall be notified by the Employer's Representative if any services are required.

Due to the uncertainty and fluctuation of the Municipality's requirements, no indication can be given as to the quantities of the above-mentioned services or works orders under this contract. The Service Provider will therefore be required to supply the services in such quantities as may be required by the Municipality from time to time.

**6.2 Works Not to Interfere:**

The various operations that make up the Works will be operational throughout the Contract and/or completion of works orders. The Service Provider shall ensure that the Works do not affect operations without good reason and that there is access at all times.

The Employers Agent will support and assist as far as possible.

**6.3 Overtime Work on Site:**

Overtime on site will only be allowed if exclusively requested or approved by the Employer's representative. A written request with supporting evidence is required if the Supplier requests overtime work. Overtime work will only commence after the approval is received from the Employer's Representative. Working hours will be as per definition in paragraph 8.2.

**6.4 Sequence of the Works:**

The Service Provider shall be responsible for determining the sequence of the tasks per works package/order, in conjunction with the employer's representative and shall be captured in a works package program / schedule with detailed tasks and durations which shall be subject to the approval of the Employer's representative.

**6.5 Competent Personnel:**

Only competent personnel that have been adequately trained by the Service Provider shall execute all the required work.

**6.6 Communication:**

The Service Provider shall ensure that its representative is accessible by telephone, email and a cellular telephone connection to ensure that he can be reached during normal working hours.

The specific works package initiated by the George Municipality will list the specific contact details of relevant operating and maintenance personnel at the various installations.

**6.7 Works Scheduling, Method Statement and Approval:**

The Service Provider shall visit the site with the employer's representative and submit a detailed works programme and method statement prior to work commencing on site, unless stipulated as an emergency whereby submission is required as the emergency requires. The programme shall clearly indicate the detail and nature of work to be completed, which section of the works will be effected, how water will be handled, a detailed schedule clearly indicating the duration of work (kick-off date to date of commissioning).

Only once the works programme has been approved by the Employer, will the Service Provider be allowed to proceed with the Works.

The Works execution Programme to be submitted to the Employer, by the Service Provider shall;

- g) List the detailed tasks and duration of each task;
- h) List the plant, tools and equipment that will be used;
- i) Clearly identify all the major maintenance activities that may have a significant impact on the day to day operations of the site;
- j) Indicate hold points either on site or within the workshop as determined by GM;
- k) Indicate submission of required documentation;
- l) Take full cognizance of all the Service Provider's risks and obligations in terms of the Contract

**6.8 Inspection Reports**

Photo and/or video evidence shall be used as a report. Pictures of Site and conditions before and after shall be taken and presented to the employer's representative for approval and/or where advised, included in the invoicing package for payment.

An electronic inspection report and video footage (Where applicable and requested) must be completed and send via email or memory-stick / flash-drive to the employer's representative including all required test reports and photos after every service.

**6.9 Call out to site:**

For the case where the Employer instruct the Contractor to go to site, the Contractor shall send a team of relevant technical personnel to address the task as instructed. This shall include the key personnel, as well as any assistants required to complete the work.

**6.10 Removal, inspection and reporting on the status of equipment:**

Not Applicable for this Scope of Work/Services.

**6.11 Refurbishment of equipment:**

Not Applicable for this Scope of Work/Services.

**7. MEASUREMENT AND PAYMENT**

Measurement and payment of services by the service provider will be broken down and handled as follows. The service provider and George Municipality will together agree on the quantities required for the specific works package and whereafter an official purchase order will be issued before any works are to be conducted.

**7.1 Preliminary And General****7.1.1 Insurances**

As described in the General and Special Conditions of Contract, this item will cover all contractual related insurance such as Contractor's all risk and Public Liability to the respective values specified.

**7.1.2 Health and Safety**

All costs related to compliance with Health and Safety requirements as specified under the respective sub section and in accordance with the scope of work tendered.

This is further split into initial Health and Safety plan and file submission and then further maintenance of compliance.

**7.2 Transport and Travelling**

The unit of measurement shall "Trip" as indicated in the Bills of Quantities and specifications. It is made known that all sites are within a radius of 20 km from George Central, with the exception of Uniondale and Haarlem which is priced as indicated. A trip is deemed a return trip between the service providers premises and the site or the George Municipalities workshops.

The rate shall include charges for overheads, fuel, driver, delivery, travelling time, loading, offloading, maintenance of vehicle, and profit for the respective plant or vehicle required.

Under the Day Works Schedule, these rates shall only be used under "Special Project" and approved conditions and these rates do not form part of the actual services rendered

**7.3 Labour**

The unit of measurement shall be an hourly rate to supply the required labour as required and defined in the specific scope of work and specifications per service measured per hour. This is further split between the definitions of Normal Hours and After Hours/Overtime as specified elsewhere.

Under the Day Works Schedule, these rates shall only be used under "Special Project" and approved conditions and these rates do not form part of the actual services rendered

**7.4 Scope of Services**

Rates shall be for the services as specified in the respective scope of services and measured in the bills of quantities and include all plant required (wetted rates), transportation, material and labour for the successful completion of the service, measured in the unit as indicated in the Bills of Quantities.

The rate indicated in the Bills of Quantities shall allow for and include an upfront Meeting on Site, by either the contracts manager or foreman, with the Employers Representative to discuss scope, measure quantities and finalise works package in principal.

Rates shall be deemed wet rates for all plant and equipment.

Where services are measure per m, the total length of meters to be remunerated per works order, will be from the start/inception manhole to the next.

Disposal of removed material shall be included in the same rate.

As indicated in the Bills of Quantities, an extra over for services outside of the 20km radius of central George, for sites in Haarlem and Uniondale, an additional rate to cover time and travel must be included.

**7.5 Percentage Handling**

Where indicated and applicable, the service provider shall Tender the percentage handling charge applicable where rates are not tendered, and/or pricing by OEM supply or other services still has to be established. In this case the client may request that 3 or more quotations are obtained, subject to the scope of supply and services required, as well as estimated value.

**7.6 Payment:**

No work shall commence without an official purchase order.

Once the works order is successfully completed by the service provider, the employer's representative shall inspect the works and sign off with name, date and signature on the approved works order or works plan. This shall be used in support of the invoice when submitted, as described in the contract conditions.

Invoices shall clearly state the official client order number, tender number, site location/name and clients VAT Number.

**8. COMPLETION, PROGRAMME AND RESPONSE TIMES****8.1 Completion and Programme:**

The contract period for appointment is for a period of three (3) years from the date of the formal appointment.

The requirements regarding the programme of work / tasks during the contract period shall be communicated by the Employer, including the critical status of the task as well as the envisioned programming of the task, and it shall be agreed upon with the Contractor prior to commencement of any work.

**8.2 Working Hours:**

The working - or operational hours are classified as following:

- Normal time: 07:30 to 16:59, Monday to Friday
- Normal overtime: 17:00 to 07:29 Monday to Friday and 00:00 to 23:59 on Saturdays
- Sundays and Public holidays: 00:00 to 23:59

Scheduled or non-emergency work, unless instructed by the Employer's representative, may not be done outside the normal time hours.

Most work for this purpose shall be deemed to take place during normal working hours unless otherwise advised.

**8.3 Response Time:**

Maximum response time is not applicable for this scope of services and will be as agreed with the Employer's representative.

**9. DISPOSAL OF MATERIAL**

All removed material shall be disposed of at suitable waste disposal/management site. Receipt/proof of disposal shall be kept by the contractor and submitted with the supporting documents for the invoice.

No charges will be applicable for dumping. The contractor shall however arrange and ensure that all required permits and paperwork is in place and the correct procedure followed.

The employer will provide all relevant contact and logistical details applicable to disposal at the commencement of the contract.

**10. NON-PERFORMANCE**

Should the service provider fail to perform in accordance with the agreed programme and allowed time as per the works package, penalties applicable will be in line with that stated in the Specific Conditions of Contract, unless otherwise indicated in the scope of works section.

**11. CONSEQUENTIAL DAMAGES**

Should the non-performance of the service provider bring about any consequential damages to property and/or clients of the Employer, the service provider and/or their insurers shall be held liable. All caution shall thus be taken to manage and remedy situations with agreement and approvals of the employer.

**Section 2: Specifications**

The Specification must be read in conjunction with SANS 1200, with the following interpretations and clarification taking preference over the National Standard.

**C SITE CLEARANCE**

**C 3 MATERIALS**

**PS C 3.1 DISPOSAL OF MATERIAL**

Substitute the first sentence of C 3.1 with the following:

An area for the disposal of material obtained from clearing and grubbing, demolition of structures and dismantling and removal of pipes shall be disposed of as specified by municipality.

**C 5 CONSTRUCTION**

**PS C 5.1 AREAS TO BE CLEARED AND GRUBBED**

Clearing and grubbing shall only be done in areas as instructed in writing by the Employer. Clearing and grubbing of pipe and cable routes, shall be limited to a 3 m wide strip.

The Contractor may proceed with clearing and grubbing after hand-over of the site.

Measurement and payment for clearing and grubbing shall occur for areas as required by the Employer.

The Contractor shall program his work in such a manner that re-clearing will not be necessary. The cost of re-clearing shall be borne by the Contractor.

**PS C 5.9 EXISTING FENCING**

The fences around the site shall be repaired immediately after any damage to them has occurred.

The Contractor is strongly advised to make sketches and, where applicable, take photographs of existing fences before they are removed so as to avoid, as far as possible, arguments that may arise between himself and the property owner as to the quality of the re-erected fences.

Where fences are crossed it will be dismantled and set aside and reinstated after the work is finished. All fencing must only be removed when work is to commence in that area and must be repaired immediately at the same standard as previously after damage to it has occurred.

**C 8 MEASUREMENT AND PAYMENT**

**C 8.2 SCHEDULED ITEMS**

Clearing of site including disposal of surplus material

PS C 8.2.1 **Clear and Grub..... Unit : m<sup>3</sup>**

Add the following to C 8.2.1:

**Scope of Works**

**Part C3C**

The removal of all rocks and boulders on site over 0,15 m<sup>3</sup> will be paid under subclause

D 8.3.2(b).

The removal of hard rock other than boulders will be paid under subclause DB 8.3.2(b).Tree removal

Remove topsoil to nominal depth of 150mm

Remove and re-erect vibre crete wall

Demolish structures

Disposal of surplus material at appropriate location.

**PS C 8.2.1 Removal of existing fences ..... Unit : m**

Add new payment clause C 8.2.11:

The rate shall cover the cost of removal and stacking of fencing and wall material, including all gates, as well as the re-erection thereof with the existing material. No payment will be made for the replacement of fencing material that has been damaged by the Contractor and all costs for this are deemed to be covered by the rate for the appropriate items.

Material that is unsuitable for re-erection must be viewed by the employer before it is removed. Only by written approval from the employer can the Contractor claim advance compensation for such material.

**D EARTHWORKS****D 2 INTERPRETATIONS**

Add the following to D 2.3:

**Sand (cohesionless and non-cohesive)**

For the purpose of the compaction requirements, a non-plastic material of which not less than 95 % by mass passes a sieve of nominal aperture size 4,75 mm, and not more than 10 % passes a sieve of nominal aperture size 0,075 mm.

**D 3 MATERIALS****D 3.3 SELECTION****PS D 3.1.1 General**

The Contractor shall deal in such a way with materials from all excavations for structures and pipe trenches to ensure that usable material is not contaminated with unsuitable material. If usable material is contaminated, such contaminated material shall be removed and replaced with material of standard at least equal to the in situ usable material, all at the Contractor's expense. No additional payment shall be made in respect of this and all relevant costs shall be deemed to be included in the tendered rates.

Add the following to D 3:

**D 4 PLANT**

Add the following to D 4:

**PS D 4.5 AVOIDING QUAGMIRE CONDITIONS**

To prevent quagmire conditions occurring in the excavations, relatively static plant such as back-actors shall be used combined with hand trimming to complete the excavation to final level. Should the Contractor allow quagmire conditions to develop, he shall, at his own expense, take such steps to rectify the conditions as the Employer may order.

**D 5 CONSTRUCTION****D 5.1 PRECAUTIONS****D 5.1.2 Existing Services****PS D 5.1.2.2 Detection, Location and Exposure**

Add the following to D 5.1.2.2:

The requirements of PS A 5.4 shall apply mutatis mutandis.

If existing services are not shown on the drawings but the existence thereof can be reasonably expected, the Contractor shall, in conjunction with all relevant authorities, determine the exact depth and location of such services before the commencement of construction. After locating the exact position of services, whether indicated on the drawings or not, such services shall be deemed to be known services and the Contractor shall be liable for all costs and subsequent costs arising from the damage thereof as a result of the Contractor's activities. These services must also be indicated on the "As Built" drawings.

**PS D 5.1.2.3 Protection of cables**

Substitute "estimated position" in the second sentence of D 5.1.2.3 with "actual or exposed position".

**PS D 5.1.4 Nuisance****PS D 5.1.4.1 Dust Nuisance**

Add the following to D 5.1.4.1:

The Contractor is responsible for dust control and is liable for all claims that may result from dust nuisance on all parts of the site and at all times from the date of handing over of the site to the completion date of the contract. No payment regarding the above-mentioned will be made and all costs shall be deemed to be covered by the tendered rates.

**D 5.2 METHODS AND PROCEDURES****D 5.2.1 Site Preparation****PS D 5.2.1.2 Conservation of topsoil**

Add the following to D 5.2.1.2:

Removal of topsoil shall only occur in areas as approved, in writing, by the Employer. The topsoil shall be conserved for use elsewhere.

**D 5.2.2 Excavation****PS D 5.2.2.3 Disposal**

Substitute the second sentence of D 5.2.2.3 with the following:

All surplus and unsuitable material shall be dumped and neatly finished off in the area as indicated by the municipality. No payment will be made for overhaul and all transport shall be regarded as free haul and the costs thereof shall be included in the tendered rate.

**PS D 5.2.2.4 Excavation by hand around existing services**

Add new sub clause D 5.2.2.4:

Where hand excavation is required around existing services it shall be done within 3,0 m above and on both sides of cables and within 300 mm above and on both sides of pipes, as well as underneath the services.

**PS D 5.2.2.5 Utilisation of excavated material**

Excavated material and material recovered from temporary work shall, in so far as it is suitable, be utilised for backfill. Material unsuitable for use as backfill or in excess of the quantity required to be completed the backfill shall be spoiled or utilised as directed by the Employer.

Excavated material not used for backfill or not taken to spoil but used in the contraction of embankments or other parts of the work, as directed by the Employer, shall be paid for under the relevant item for the purpose for which it is used.

**PS D 5.2.3 Fill and compaction****PS D 5.2.3.1 Embankments**

Add the following to D 5.2.3.1:

Embankments of ponds and terraces shall be constructed of approved material from excavations and shall be compacted to 95 % (100 % for sand) of MAASHTO density, in layers not exceeding 150 mm in depth.

**PS D 5.2.3.2 Backfilling of trenches and backfilling against structures**

Add the following to D 5.2.3.2:

Backfilling around structures shall be compacted to 95 % (100 % for sand) of MAASHTO density.

When specified or ordered by the Employer, the backfilling against structures shall be done using a mixture of soil cement. The mixture shall contain 5 % cement and just sufficient water for it to be placed and compacted like ordinary backfilling material.

Add the following to D5.2.3:

**PS D 5.2.3.3 Filling under floors**

Filling under the floors of buildings shall be done with sand from commercial sources, compacted to 100 % of MAASHTO density.

**PS D 5.2.4 Finishing****PS D 5.2.4.1 Final grading**

Add the following to D 5.2.4.1:

Embankments and terraces shall be trimmed to an even grade of 1 in 3 or as shown on the drawings.

**PS D 5.2.4.2 Top soiling**

Add the following to D 5.2.4.2:

Topsoil shall be placed on the sides and on the tops of embankments and other terraces where no paving is specified, or in areas where directed by the Employer.

**PS D 5.2.4.3 Grass or other vegetation**

Add the following D 5.2.4.3:

Planting shall be carried out at the earliest convenient stage of the construction and shall be arranged to suit the seasonal weather conditions. Undue humps and hollows shall be smoothed out before planting is commenced.

**a) Grassing**

Stools or runners of "Kikuyu" or other grass approved by the Employer shall be planted by forming trenches 75 mm deep at 300 mm intervals along lines at right angles to the direction of maximum slope, laying the stools or runners at intervals not exceeding 150 mm along the trenches and closing the trenches in such a way to cover the grass entirely. After planting the surface shall be lightly rolled with a hand roller with a maximum mass of 150 kg.

**PS D 5.2.6 Dewatering of Foundation Excavations**

Over and above his general obligations in regard to dealing with water as specified in SABS 1200 A, the Contractor shall be responsible for preventing the ingress of water into the foundation excavations. The preventative measures shall include the construction of proper drainage channels, diversion channels, berms, sumps, and the supply, operation and maintenance of the necessary bailing and pumping equipment.

The dewatering measures, with the exception of pumping, shall be maintained until the backfilling has been completed, after which all settled silt, mud, etc. shall be removed from the exposed surfaces where necessary. Between the various construction stages, pumping may be interrupted as may be decided by the Employer . The draining or pumping of water from foundation excavations shall be so done that no concrete materials will be carried away.

**D 8 MEASUREMENT AND PAYMENT**

**PS D 8.1 BASIC PRINCIPLES**

Add the following to D 8.1:

The rates for excavation shall also cover the cost of dealing with any stormwater or subsurface water, which may appear in the excavations.

**D 8.3 SCHEDULED ITEMS**

**PS D 8.3.2 Bulk Excavation**

Add the following sub items to D 8.3.2:

- a) Excavate in all materials and use for embankment or backfill or dispose, as ordered**

..... Unit : m<sup>3</sup>

Add the following to D 8.3.2(a):

There will also be distinguished between the different types of fill and backfill as well as the different densities to which each will be compacted.

- b) Extra-over 8.3.2(a) for soil cement backfilling where specifically required by the Employer (percentage of cement indicated)**

..... Unit : m<sup>3</sup>

The tendered rate for sub item PS D 8.3.2(c) shall be additional to the rates tendered for D 8.3.2(a) and shall cover the cost of all incidentals required for the complete backfilling with soil cement as specified. The rate shall also include for the trimming and compacting of the excavation before placement of soilcrete.

- c) Hand excavation in all materials and use of embankment or backfill or dispose, as ordered**

..... Unit : m<sup>3</sup>

- d) Excavate and dispose of unsuitable material from excavation bottom ..... Unit : m<sup>3</sup>**

**Scope of Works**

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The rate shall cover the cost of complying with all the precautions required in terms of D 5.1 in addition to the cost of excavation of the additional depth in any material and the disposal of the unsuitable material as specified in PS D 5.2.2.3.

**PS D 8.3.3 Restricted Excavations**

Replace D8.3.3 with the following

No payment will be made for restricted excavations of chambers, manholes etc. and all costs of such excavations will be paid under normal excavations.

**PS D 8.3.8 Existing Services**

**PS D 8.3.8.1 Location**

**PS D 8.3.8.1 (a) Excavate by hand in soft material to expose services ..... Unit : m<sup>3</sup>**

Add the following to D 8.3.8.1(c):

Excavation by hand to expose existing services shall only be measured and paid for if so, ordered in writing by the Employer. After the excavation of trial holes to determine the exact position and depth of existing services, at intervals as required by the Employer, the excavation to a level of 300 mm above such services shall be measured and paid for as normal excavation, independent of the depth of such excavation. Only excavation within 300 mm of the existing services will be measured and paid for as excavation by hand and then only if ordered in writing by the Employer.

If such services are damaged or removed, it has to be repaired or replaced immediately to its original position and condition, which is acceptable for the Employer.

**DB : EARTHWORKS (PIPE TRENCHES)****DB 1 SCOPE**

Add the following to DB 1.1:

This specification also covers the excavation for cable trenches.

**PS DB 2.2 APPLICATION**

Substitute "pipe trenches" with "trenches, channels or other excavations" in DB 2.2.

**DB 3 MATERIALS****PS DB 3.5 BACKFILL MATERIALS**

1. Substitute "from trenches" in DB 3.5(a) with "from trenches or excavations for structures".

Add the following to DB 3.5(b):

- c) All pipe trenches in street reserves shall be classified as areas subject to loads from road traffic.
- d) All pipe trenches underlying or adjacent to the carriageway shall be backfilled with sand complying with the requirements for A3 materials.

**DB 4 PLANT****PS DB 4.1 EXCAVATION EQUIPMENT**

Add the following to DB 4.1:

An adequate number of suitable tools, including hand stampers, wheelbarrows and hose pipes shall be provided by the Contractor. The Contractor will supply mechanical compaction equipment and when required pneumatic and rock breaking equipment.

All excavations exceeding the specified widths, shall be backfilled with approved selected material. No payment shall be made for this and all relevant costs shall be deemed to be included in the tendered rates.

**PS DB 4.4 DEWATERING EQUIPMENT**

One set of dewatering equipment shall consist of pumps, pipes, well points and other equipment necessary for keeping the trenches sufficiently free from water for dewatering of excavations up to 4 m depth and a trench length of 45 m for both sides and 70 m on one side.

**DB 5 CONSTRUCTION****DB 5.1 PRECAUTIONS****PS DB 5.1.1 Water in Trenches**

Water in pipe trenches may cause movement of the pipe due to flotation and backfilling must be completed as soon as possible. If there was any movement, the Contractor must remove and relay the pipes at his own cost and to the satisfaction of the Employer.

**PS DB 5.1.2 Stormwater, Seepage and Dewatering of Excavations**

Substitute DB 5.1.2 with the following:

The costs of dealing with water shall be deemed to be included in the tendered rates for excavation and no additional payment shall be made in this respect.

**PS DB 5.1.3 Provision for traffic and access to properties**

Add the following to DB 5.1.3

Construction must be done in half widths back filled completely and the surface reinstated before the next half is done to accommodate the traffic flow at all times.

**PS DB 5.1.4 Existing services that intersect or adjoin trenches**

Add the following to DB 5.1.4

The conditions of PS A5.4 shall apply mutatis mutandis.

**PS DB 5.1.5 Hand Excavation**

Certain trenches will have to be excavated by hand, because of limited access and space. The Contractor is to ensure that all excavation done by hand is in strict accordance with the requirements of the Occupational Health and Safety Act.

**PS DB 5.2 Minimum Base Widths Specified**

Substitute DB 5.2(a) with the following:

The base widths for combined pipe trenches are as shown on the drawings and the excavation depth is determined by the deepest pipe in the trench. The depth increment of a combined trench will be determined by the sewer or alternatively by the water pipe. The electrical ducts will determine the depth increment where they are laid together with house water connections. The total excavation, backfilling, bedding, etc. form a specific trench and is measured in the bill of quantities under the service that determines the depth.

Substitute paragraph (b) of DB 5.2 with the following:

The minimum base width for all pipes with a diameter less than 125 mm shall be 600 mm plus the outside diameter of the pipes, irrespective of the depth at which they are laid, except for subsurface drains where the width shall be 400 mm and for house water connections where the width shall be 300 mm.

Bedding is required for all pipes with a diameter less than 125 mm, except for subsurface drains.

The minimum base width for electric cable trenches shall be 500 mm. Where more than one cable is installed in the same trench, the base width shall become 300 mm plus the distances specified between the centre lines of the cables (50 mm minimum).

**PS DB 5.4 EXCAVATION**

Add the following to DB 5.4:

The provisions of PS D 5.2.2.4 shall apply mutatis mutandis for hand excavation.

**PS DB 5.5 TRENCH BOTTOM**

Substitute "90 %" in the second paragraph of DB 5.5 with "93 % (100 % for sand)".

**PS DB 5.5.1 Trench Bottom**

Substitute "90 %" in the second paragraph of DB 5.5 with "93 % (100 % for sand)".

**DB 5.6 BACKFILLING**

**PS DB 5.6.2 Material for Backfilling**

Substitute "from trench excavations" in the first paragraph of DB 5.6.2 with "from trench, channel or street excavations".

**PS DB 5.6.3 Disposal Of Soft Excavation Material**

Add the following to DB 5.6.3:

The provisions of PS D 5.2.2.3 shall apply mutatis mutandis.

**PS DB 5.7 COMPACTION**

**PS DB 5.7.2 Areas Subject To Traffic Loads**

Add the following to DB 5.7.2:

All pipe trenches within street reserves, road crossings, accesses to services, farms and camps that fall within the road reserve, will be regarded as areas subject to traffic loads.

Backfilling of trenches that are subject to traffic loads will be executed in layers of 100 mm as follows:

Main backfill up to road layers: 93% Mod AASHTO

Selected backfill material:	93% Mod AASHTO (final thickness of layer — 200 mm)
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Sub-base:	95% Mod AASHTO (final thickness of layer — 200 mm)
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Base:	98% Mod AASHTO (final thickness of layer — 175 mm)
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Sand backfilling shall be compacted to 100% of MOD ASSHTO density.

**DB 8 MEASUREMENT AND PAYMENT**

**PS DB 8.1 BASIC PRINCIPLES**

Delete "along the route of the pipeline" in DB 8.1.1.

Add the following to DB 8.1.2(b):

**DB 8.2 COMPUTATION OF QUANTITIES**

**PS DB 8.2.4 Shoring**

Add the following to DB 8.2.4:

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Shoring will only be measured and paid for if written approval is given by the Employer's before it is installed.

DB 8.3 **SCHEDULED ITEMS**

PS DB 8.3.2 **Excavation ..... Unit : m**

Add the following to DB 8.3.2:

The rate shall also cover the cost of dealing with any stormwater or subsurface water, which may appear in the trenches.

PS DB 8.3.2 **a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material ..... Unit : m**

Add the following to D 8.3.2(a):

In cases where services lay parallel to steep slopes, the depth of the excavation will be measured along the centre of the trench (on the route of the service).

The rate shall also provide for the fact that the excavation width in sand will be wider than normal and that fast excavation and backfill will reduce ground water seepage.

i) Electric cable trenches

Excavation for electric cables not laid with other services will be measured and paid for separately under the relevant depth increments. The rate shall provide for excavation, preparing trench lengths as requested by the electrical subcontractor, backfilling and compaction thereof.

The rate shall also make provision for the possibility that long trenches need to be prepared for the electrical Contractor to lay full cable lengths (up to 300 m) and immediate backfilling after the installation of the cable (same day) to prevent theft.

ii) Combined trenches

The rate for excavation and backfilling of trenches with more than one service, shall allow for trench widths as set out in PS DB 5.2 and the bill of quantities. Extra bedding and fill blanket will be measured as in the case of normal pipe trenches.

The depth increment for combined trenches is determined by the deepest pipe in the trench.

PS DB 8.3.2 **c) Excavate unsuitable material from trench bottom ..... Unit : m<sup>3</sup>**

Delete "and the disposal" in the heading of DB 8.3.2(c) and in the last paragraph.

PS DB 8.3.2 **d) Hand excavation and backfill ..... Unit : m<sup>3</sup>**

The provisions of PS DB 8.3.2(a), DB 8.3.2(b) and PS DB 8.3.2(c) shall apply mutatis mutandis for hand excavation.

Payment shall only be made if so ordered by the Employer.

PS DB 8.3.2 **e) Excavate by hand in soft material to expose existing services ..... Unit : m<sup>3</sup>**

The rate shall apply for pipelines and cables.

The provisions of sub clause PS D 8.3.8.1(c) shall apply mutatis mutandis.

**DB 8.3.3 Excavation Ancillaries**

**PS DB 8.3.3.1 Make up deficiency in backfill material (provisional) ..... Unit : m<sup>3</sup>**

Add the following to DB 8.3.3.1:

Add the following to the last paragraph of DB 8.3.3.1:

No payment will be made for the transport of material from commercial sources or sources outside the site that the Contractor has selected.

**PS DB 8.3.3.3 Compaction in road reserves ..... Unit : m<sup>3</sup>**

Add the following to DB 8.3.3.3:

This item is only applicable to the backfill above the bedding and fill blanket.

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**MJ SEGMENTED PAVING**

**MJ 3 MATERIAL**

**MJ 3.1 UNITS**

**PS MJ 3.1.2 Class, Strength and Type**

Add the following to MJ 3.1.2:

Areas as indicated on the drawings shall be paved with 80 mm thick Type S-A class 35 precast concrete blocks (interlocking type).

**MJ 5 CONSTRUCTION**

**PS MJ 5.7 JOINT FILLING**

Joint filling shall be done with sand (A3 specification).

**MJ 6 TOLERANCES**

**PS MJ 6.2 PERMISSIBLE DEVIATIONS**

Add the following to MJ 6.2:

The degree of accuracy shall be degree I.

**MJ 8 MEASUREMENT AND PAYMENT**

**MJ 8.2 SCHEDULED ITEMS**

**PS MJ 8.2.2 Construction of Paving Complete ..... Unit : m<sup>2</sup>**

Add the following to MJ 8.2.2:

The rate shall also cover the cost of the joint filling and 20mm thick sand layer beneath paving as specified in PS MJ 5.7.

**G : CONCRETE (STRUCTURAL)****PERFORMANCE SPECIFICATION****1. APPLICATION**

This performance specification is applicable to all concrete used for the construction for the project above.

**2. CODES AND DESIGN SPECIFICATIONS**

All works to comply with current South African Standards as a minimum.

These include but are not limited to:

- SANS 10160:2011 Basis of structural design and actions for buildings and industrial structures. Part 1 to 8.
- SANS 1200:1982 Concrete (Structural). Part G.
- SANS 10100:2000 The structural use of concrete. Part 1 and 2

International standards for consideration:

BS EN 206:2013-Concrete - Specification, performance, production and conformity

**3. RESPONSIBILITIES**

The Contractor's scope of work to include (design responsibility):

- Mix design for the applicable exposure and durability for the project;
  - Reinforcement cover = 50mm
  - Design life = 50 years
- Submitting documentation required for the mix design (Refer to Section 1.4), for acceptance by Employer.
- Preparing and implementing a Quality Assurance Management Plan.
- Site monitoring reports (to be signed off by the Mix Designer) to be submitted for acceptance by Employer (monthly).
- A maintenance procedure and plan (for client implementation).

**4. SUBMITTALS**

- Details and experience of Mix Designer, including PEng registration number.
- Copy of valid Professional Indemnity cover Certificate of Designer
- List concrete requirement (to include, but not limited to):
  - The structures are exposed to industrial and municipal sewage.
  - Abrasion and chemical resistance required, mainly due to industrial waste.
  - Water tight structures, designed with a maximum crack width of 0.1mm and a minimum cover of 50mm.
  - The structures design life: 50 years.
  - The grade of concrete for all structures and structural elements = 35MPa cube strength @ 28days , 19mm stone
  - Shutters as proposed by contractor (Steel, timber, etc.)
  - Curing and shutter stripping as proposed by contractor.
  - Maximum heat of hydration = 24°C.
- Mix design (to include):
  - Materials, material origins, mix proportions and associated testing.
  - Cube test results for 3, 7 and 28 days (56 day test results can follow)
- Quality Assurance Management Plan (including post concreting inspections and sign offs).
- Remedial Maintenance Procedures and Suggested Remedial Maintenance Program.

**5. SUPPLIERS WARRANTY**

The contractor shall submit a written guarantee accompanied by substantiating data, stating that the products used are in accordance with or exceed these specifications.

In addition to the above, upon completion of works the Mix Designer shall submit all documentation to confirm constructed concrete works meet his design specifications and were correctly implemented on site.

**G 3 MATERIAL****PS G 3.2.1 Applicable Specifications**

Refer to Performance Specification above.

**PS G 3.2.3 Storage of Cement**

Add the following to G 3.2.3:

Separate storage facilities shall be provided for the various types of cement specified.

Consignments of cement shall be used in the same sequence as that in which they are delivered to site. No cement shall be used which has been stored on site for a longer period than 6 (six) weeks. All cement so stored for a longer period than 6 (six) weeks, all cement damaged in any way, and all cement which does not comply with the specification, shall be removed immediately and permanently from the site.

**PS G 3.5.2 Air-entraining Agents**

Substitute G 3.5.2 with the following:

Air-entraining agents shall not be used in concrete.

**G 4 PLANT****PS G 4.5.3 Ties**

Add the following to G 4.5.3:

Permanent metal ties shall have a minimum concrete cover of 50 mm after formwork has been removed.

Tie holes shall be filled with an approved expansive cementitious grout equivalent to "Durabed" of ABE. The product shall be prepared to a non-slump consistency, but where no cracking occurs when pressed into a firm ball. Trial mixes shall be made to arrive at the required working consistency.

**G 5 CONSTRUCTION****G 5.1 REINFORCEMENT****PS G 5.2.1 Classification of Finishes**

Add the following to G 5.2.1:

The following surface conditions are required on the various portions of the finished concrete:

**(a) Rough**

Concealed surfaces and surfaces more than 150 mm below final ground level.

**(b) Smooth**

All surface finishes not classified as "rough" in paragraph (a) shall be classified as "smooth". All exposed arrises (i.e. where the angle between adjacent sides is 110° or

less) unless otherwise indicated on the drawings, shall be chamfered 20 mm x 20 mm by means of triangular fillets fixed to the formwork.

**(c) Exposed arises**

All exposed arises (i.e. where the angle between adjacent sides is 110° or less) unless otherwise indicated on the drawings, shall be chamfered 20 mm x 20 mm by means of triangular fillets fixed to the formwork.

**(d) Repair of concrete**

Immediately after the removal of the formwork, the Employer shall inspect the concrete for defects. Skilled workmen only shall perform all repairs of such defects, by approved methods and to the satisfaction of the Employer and at the expense of the Contractor.

Repairs shall be carried out as soon as practicable after the removal of the formwork and in any case not longer than twenty four (24) hours after exposure. Concrete that is damaged from any cause and concrete that is honeycombed, fractured or otherwise defective, and concrete which, because of excessive surface depressions must be excavated and built up to bring the surface to the prescribed lines, shall be removed and replaced with mortar or concrete as hereinafter specified or as otherwise directed by the Employer.

Concrete filling generally of the same class as the damaged concrete shall be used for holes extending entirely through concrete sections and of such a size as will accept concrete and for holes in mass concrete greater in area than 0,1 m<sup>2</sup> and deeper than 100 mm and for holes in reinforced concrete which are greater in area than 0,15 m<sup>2</sup> and which extend beyond the reinforcing. Mortar filling composed of sand and cement in the same proportions as used for the concrete and of a consistency such as will make the mortar sufficiently plastic to be easily placed, shall be used for all other imperfections.

A filling shall be bonded tightly to the surface of the area being repaired and shall be bound and free from shrinkage, cracks and hollow areas after the filling has been cured and dried. Curing of repaired areas shall be performed in such a manner and for such periods as the Employer may direct.

Particular care shall be exercised to ensure that the colour of the repair work shall match as nearly as possible to the colour of the surrounding concrete. No cement washing or plastering shall be carried out except on the written instruction of the Employer.

**PS G 5.4 PIPES AND CONDUITS**

Add the following to G 5.4:

All pipes and specials, which must be installed in the floors and walls of structures, shall be embedded in the concrete during the casting of such concrete. No holes shall be left for the later installation of pipes and specials, without the written approval of the Employer.

Where such holes have been approved by the Employer, the Contractor shall be responsible for the grouting-in of such pipes or specials with an approved expansive cementitious grout as specified in PS G 4.5.3, regardless of whether or not these have been supplied by himself. The Contractor shall provide a smooth, dense and waterproof finish around the pipes or specials.

The clear space between pipes of any kind embedded in reinforced concrete and the clear space between such pipes and reinforcement shall at any point be not less than -

- (a) 40 mm, or

(b) 5 mm plus the maximum size of coarse aggregate, whichever is the greater.

**G 5.5 CONCRETE****PS G 5.5.1.5 Durability**

Refer to Performance Specification above.

**PS G 5.5.7 Construction Joints**

Add the following to G 5.5.7.1:

Construction joints shall be limited to the minimum and shall only be made in positions as shown on the drawings or in positions as specifically approved by the Employer. Construction joints between tank bottoms, floors, or wall bases, and the walls standing on them shall not be made flush with the supporting surface but shall be made in the wall 150 mm above the base. The 150 mm high riser wall shall be cast as an integral part of the bottom, floor or base, i.e. the concrete in the riser shall be deposited simultaneously with the concrete in the bottom, floor or base adjacent to it. Where there is a fillet at the bottom of a wall, the construction joint shall be made 150 mm above the fillet.

**PS G 5.5.7.4 Expansion joints**

Expansion joints shall be formed in positions and in accordance with details as shown on the drawings. All expansion joints shall be formed with an approved closed cell polyethylene fill material with a density of not less than 100 kg/m<sup>3</sup>. Joint sealers shall consist of a two-component polyurethane sealing compound complying with SABS 1077. Expansion joints to be sealed with combiflex system with a 60mm cover on each side as shown on detail drawing.

All sealants, fill material and waterstops shall be installed strictly in accordance with the specification of the manufacturers and to the satisfaction of the Employer. The sealant shall be installed in one operation and jointing to already hardened sealant will not be permitted.

**PS G 5.5.9 Adverse Weather Conditions**

Add the following to G 5.5.9.1:

No material having a temperature of below 5 °C shall be used for concrete, and no concrete shall be deposited when the ground or air temperature is below 2 °C. Furthermore, if the air or ground temperature is likely to fall below 2 °C within 12 (twelve) hours after depositing of concrete, no concreting shall be done without the written consent of the Employer. If such consent is given the Contractor shall heat the aggregate stockpiles and mixing water, and defrost the formwork and reinforcement.

**PS G 5.5.10 Concrete Surfaces**

Add the following to G 5.5.10.1:

Concrete surfaces under screeds, granolithic floor finishes or benching, and surfaces of strip foundations and footings shall be brought up to a plane, uniform surface with a suitable screed board.

Add the following to G 5.5.10:

**PS G 5.5.10.4 Wood-floated finish**

Where wood floating is specified or scheduled, the surface shall first be given a finish as specified in G 5.5.10.1 and after the concrete has hardened sufficiently, it shall be floated to a uniform surface free from trowel marks. The screeded surface shall be wood-floated, either by hand or machine, only sufficiently to produce a uniform surface free from screed marks.

**PS G 5.5.10.5 Steel-floated finish**

Where steel floating is specified or scheduled, the surface shall be treated as specified in PS G 5.5.10.4 except that, when the moisture film has disappeared and the concrete has hardened sufficiently to prevent laitance from being worked to the surface, the screeded surface shall be steel-trowelled under firm pressure to produce a dense, smooth, uniform surface free from trowel marks.

**PS G 5.5.11 Watertight Concrete**

Add the following to G 5.5.11:

All structures shall be deemed to be water retaining, unless otherwise specified.

**PS G 5.5.11.1 Requirements and tests for watertightness of structures**

The completed structure shall be watertight, and the quality and finish of the work shall be such that no after-treatment of the work such as plastering or cement wash is necessary to ensure compliance with this requirement.

The works will not be certified complete until the structures enumerated in PS G 5.5.11 has been proved by testing to be watertight.

Upon completion of construction and when so agreed by the Employer, the structure shall be filled by the gradual admission of water until the water level reaches the designed maximum level. The water level shall then be carefully noted and recorded by the Employer in relation to a fixed bench mark, and the structure shall be allowed to remain filled for a period of 2 (two) weeks or such longer time as may be required to permit complete saturation of the concrete. During this period, readings will be taken by the Employer and the results so obtained will be available for the information of the Contractor.

At the end of this period more water shall be added, if necessary, to bring the water level back to the designed maximum level and the water shall be left undisturbed for a period of at least 4 (four) days during which time the level shall again be recorded by the Employer at regular intervals. The structure shall be considered to be watertight if the drop in water level does not exceed 6 mm in 96 (ninety six) hours in the case of a roofed structure and if no leakage is apparent.

The acceptable drop in level in the case of an unroofed structure shall be such that it allows for normal evaporation during the time of the test.

If appreciable leakage is evident at any stage of the filling or testing or if, in the opinion of the Employer, the degree of watertightness is unsatisfactory, the Contractor shall, when so ordered by the Employer, discontinue the test immediately and at his own expense take approved steps to rectify the work. The work of rectification shall be continued assiduously until, on repetition of the test procedure, a satisfactory test result is obtained and the degree of watertightness is acceptable.

Backfilling around structures shall not commence until a satisfactory test result has been obtained.

The Employer shall have the right to retest the structure before the expiry of the defects liability period and the results of these tests will be made available to the Contractor. If these tests indicate to the Employer that the degree of watertightness is unsatisfactory, the Employer (before issuing the final certificate) will be entitled to order the Contractor to rectify the work at his own expense in such a manner as will cause least interruption to the Employer and will ensure that the degree of watertightness of the structure is satisfactory.

**G 5.8 NO-FINES CONCRETE**

**PS G 5.8.1 Materials**

Cement shall be CEM II.

Water and aggregate shall comply with the requirements of G 3.3 and G 3.4.

Each size of aggregate shall be a single size aggregate graded in accordance with SABS 1083.

**PS G 5.8.2 Classes of No-fines Concrete**

No-fines concrete shall be classified by the prefix NF and the size of aggregate to be used. Class NF 19 means a no-fines concrete with a 19 mm nominal size aggregate.

The volume of aggregate per 50 kg of cement for each class of concrete shall be as follows:

**CLASS AGGREGATE PER 50 kg CEMENT**

NF 38	0,33	m <sup>3</sup>
NF 19	0,30	m <sup>3</sup>
NF 13	0,27 m <sup>3</sup>	

**PS G 5.8.3 Batching and Mixing**

Cement shall be measured by mass or in full pockets of 50 kg each and aggregate shall be measured by volume in approved measuring boxes or barrows.

The aggregate shall be moist or wetted before the cement is added. Where drum mixers are used, about 20 % of the water shall be poured into the drum before the aggregate and cement are loaded. The mixing time in the drum shall be about 45 to 50 seconds.

The quantity of water added shall be just sufficient to form a smooth grout which will adhere to and completely coat each and every particle of aggregate, and which is just wet enough to ensure that, at points of contact of aggregate, the grout will run together to form a small fillet to bond the aggregate together. The mix shall contain no more than 20 litres of water for every 50 kg of cement.

Mixing shall be done in an approved batch-type mechanical mixer, but small quantities may be hand mixed.

**PS G 5.8.4 Placing**

No-fines concrete shall be placed in accordance with the procedure approved by the Employer. It shall be placed in its final position within 15 minutes of having been mixed.

The concrete shall be worked sufficiently to ensure that it will completely fill the space to be concreted and that adjacent aggregate particles are in contact with one another.

Excessive tamping shall be avoided, and the concrete shall not in any circumstances be vibrated.

**PS G 5.8.5 Protection**

All no-fines concrete shall be protected from the elements and loss of moisture. Protection against loss of moisture shall be accomplished by one or more of the following methods:

- a) Retaining formwork in place;
- b) Covering exposed surfaces with sacking or other approved material kept continuously wet;
- c) Covering exposed surfaces with plastic sheeting.

No-fines concrete placed during cold weather shall be adequately protected against frost for at least three (3) days.

**PS G 5.10 JOINING NEW CONCRETE TO EXISTING**

Where partial demolition is required for extension work to existing structures, the contact face shall be cut to predetermined line and level, and any loose and fragmented material shall be removed, and projecting steel cleaned and bent as directed by the Employer. Where partial demolition is not required but extension work only, the contact surface shall be scabbled and cleaned of all dirt and loose particles.

If dowels are required, they shall be installed in holes drilled into the existing structure, in accordance with the details shown on the drawings, and secured by means of an approved type of epoxy bonding compound such as Epidermix 372 or equivalent.

Fresh concrete shall be bonded to the old concrete with an approved type of epoxy bonding compound, such as Epidermix 344 or equivalent.

**G 8 MEASUREMENT AND PAYMENT****G 8.1 MEASUREMENT AND RATES****PS G 8.1.1 Formwork**

Delete "or the plan size of the excavation where additional excavation is provided to facilitate erection of forms" in the first sentence of PS G 8.1.3.1(c).

Delete the following in G 8.1.1.3(c):

"and for different prop heights for beams and slabs".

**PS G 8.1.3 Concrete**

Delete "or the plan size of the excavation where additional excavation is provided to facilitate erection of forms" in the first sentence of PS G 8.1.3.1(c).

Add the following to PS G 8.1.3.1(d):

Strip foundations and encasement of pipes shall be cast directly against the sides and bottoms of excavations. No payment shall be made for additional concrete in over-break.

Delete the full stop at the end of G 8.1.3.3(a) and add the following:

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"and special steps necessary before depositing concrete during cold weather, as prescribed in PS G 5.5.9".

**G 8.4 SCHEDULED CONCRETE ITEMS**

**PS G 8.5 JOINTS ..... Unit : m**

Add the following to G 8.5:

The cost of all other construction joints shall be deemed to be included in the rates for the relevant concrete items.

The cost of all construction and expansion joints shall include formwork, joint filler and sealer as well as waterstops and combiflex system 20 cm wide and 2 mm thickness where applicable (see PS G.5.5.7 and PS G 5.5.7.4).

**PS G 8.7 GROUTING ..... Unit : m**

Add the following pay items:

- c) Grouting in of equipment supplied and installed by the Plant Supplier
  - (i) using non-shrink grout (state type)..... **Unit : cubic metre (m<sup>3</sup>)**
  - (ii) using dry-packed grout ..... **Unit : cubic metre (m<sup>3</sup>)**

The unit of measurement shall be the cubic metre of completed grouting.

The tendered rate shall include full compensation for supplying of all materials, mixing, applying and finishing to a steel-float surface after installation of the Plant.

**PS G.8.13 MAKE OPENING AND GROUT PIPES ..... Unit : No**

The rate shall cover all costs for plant, labour and material required to make the opening for pipework in existing walls.

The rate shall also cover the cost of scabbling, cleaning and preparing the concrete surface, providing an approved non-shrink epoxy grout, placing and ramming of it solidly into all voids, formwork and finishing to a smooth watertight surface.

**Supply and casting of concrete with 19mm stone ..... Unit : m<sup>3</sup>**

**Providing & fixing, centering, and shuttering (formwork), including strutting, propping etc. and removal of formwork (wood) ..... Sum or m<sup>2</sup>**

**Concrete float finish .....m<sup>2</sup>**

**LD SEWERS****LD 2 INTERPRETATION****PS LD 2.4 ADDITIONAL ABBREVIATIONS**

Add the following to LD 2.4:

GRP: Glass reinforced polyester.

**LD 3 MATERIALS****LD 3.1 PIPES, FITTINGS, AND PIPE JOINTS****PS LD 3.1.5 uPVC-pipes**

Substitute "approved flexible joints" in LD 3.1.5 with "spigot and socket rubber ring joints".

Add the following to LD 3.1.5:

uPVC pipes, Class 34 (solid wall), shall be used.

**PS LD 3.1.8 GRP Pipes**

Add the following to LD 3.1.5:

GRP pipes must comply with the applicable stipulations in ANSI / AWWA C950 – 88 and must have a suitable flexible joint.

**LD 3.5 MANHOLES, CHAMBERS, ETC.****PS LD 3.5.2 Precast Concrete Sections**

Add the following to LD 3.5.2:

Precast concrete sections with an inside diameter of at least 1 000 mm (or as specified) shall be used for manholes. Sectional spun concrete cylinders shall have been manufactured from dolomitic aggregate.

The joint between the manhole and the concrete roof slab shall be sealed effectively with a sealant, to the prescriptions of the manufacturers and approval of the Engineer, to prevent the infiltration of subsurface water or stormwater. Lifting holes shall be sealed off effectively, with an epoxy, after installation and before backfilling.

In the case of only one inlet pipe with the same diameter as the outlet pipe and with a deviation of less than 45° from the straight, the invert level of the outlet pipe shall be 10 mm lower than that of the inlet pipe.

Where the angle between the inlet and outlet of the manhole deviates by more than 45° from the straight or where more than one inlet enter a manhole, the invert level of the outlet shall be 30 mm lower than the lowest inlet invert level.

The soffits of all inlet pipes in a manhole shall be on the same level. If the outlet pipe is bigger than all the inlet pipes, it shall have the same soffit level as the inlet pipes. All manholes complete with bottom, shall be able to accommodate a water pressure of the full manhole depth, as specified on the drawings, with an additional 50 % safety factor.

Benching must be formed with 20MPa /10mm concrete using dolomitic aggregate.

**PS LD 3.5.7 Step Irons**

Substitute LD 3.5.7 with the following:

Step irons shall be installed in all manholes deeper than 1,2 m. Step irons shall consist of polypropylene coated 12 mm high tensile steel, such as Calcamite or similar. The installation of the step irons shall be in accordance with the specification of the manufacturer.

**PS LD 3.5.9 Locking Devices for Manhole Covers**

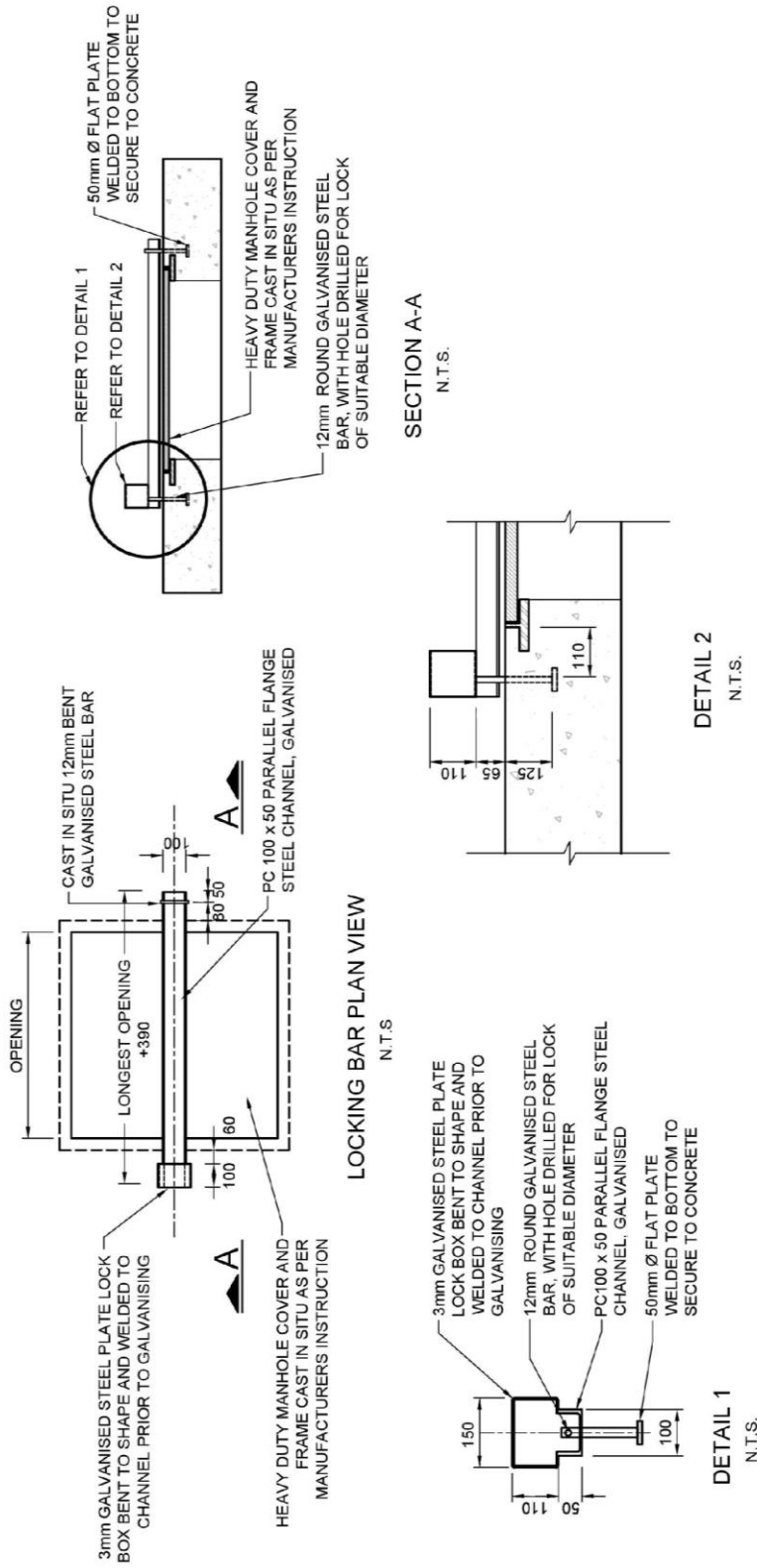
Two 6 mm x 40 mm long stainless steel grub screws shall be installed in the cover as follows:

- i) Two holes must be drilled through the cover on opposite sides to host the screws.
- ii) Two threaded holes must be provided in the frame to suit the screws and must be at least 20 mm deeper than required for the screws to accommodate dirt etc. These holes must be drilled through the holes in the cover to ensure accurate alignment.
- iii) Incisions must be made in the frame to indicate the positions of the holes after the cover is in place.

**Custom Galvanised Steel Chamber Covers:**

Chamber covers and frames shall have the same or similar access functionality and sizing as current municipal chamber covers. Covers to be manufactured from checkered galvanised steel plate with a minimum of 5mm thickness, with hinge, handles for opening and locking functionality. Additional support should be added where necessary for bigger sizes. Covers should be manufactured to a recognised and rated EN or SANS standard.

GENERAL LOCKING BAR DETAIL FOR CHAMBER COVERS & FRAMES



LD 5           **CONSTRUCTION**PS LD 5.4     **CONNECTIONS TO MANHOLES**

Add the following to LD 5.4:

If the gradient of a pipe is more than 1:10, a vertical bend shall be used to connect up to the manhole. The Contractor shall take care that no low point is formed in the pipe as a result of the bend. If a pipe lines at a gradient of 1:10 (5,71°), a 11,25° bend cannot be used since a bend with an angle larger than the grade of the pipe will result in a low point. It is the responsibility of the Contractor to shorten the bend in order to create the required angle.

For pipes with a gradient of up to 1:10, the angle can be taken up by a joint in the manhole and if required, also by the joint between the short-length and first full pipe.

LD 5.6        **MANHOLES, INSPECTION CHAMBERS, ETC**PS LD 5.6.1   **General**

Substitute LD 5.6.1(a) with the following:

Manholes shall be precast concrete and shall be constructed as shown on drawings or as per manufacturer's specifications.

1. Final cover levels of manholes in streets and paved areas shall be to the same level as the street or paved area.
2. On sidewalks, lawns and garden areas the cover level shall be 20 mm above the final ground level.
3. In midblock sewers it shall be 50 mm above ground level.
4. In the veld 100 mm above natural ground level or shown otherwise.

If a manhole is positioned at a low point or in a hollow where stormwater infiltration may occur, the manhole cover level must be raised to a level to avoid the danger of infiltration, or to a level as agreed with the Engineer.

If the manhole needs to be raised with more than 300 mm, concrete sections with the same diameter shall be installed and sealed with epoxy.

PS LD 5.6.2   **Benching**

Add the following to LD 5.6.2.3:

Benching for all manholes except those with sand traps shall be in accordance with the drawings bound into the document. The manhole shall be inspected by the Employer prior to the benching being constructed.

PS LD 5.6.3   **Step Irons**

Add the following to LD 5.6.3:

Step irons shall only be installed in manholes deeper than 1,2 m.

In the case of sand traps, the lowest step iron will be installed 300 mm above the floor of the manhole. An additional step iron shall be installed on the opposite side of the sand trap at the same level as the lowest step iron, as shown on the drawings.

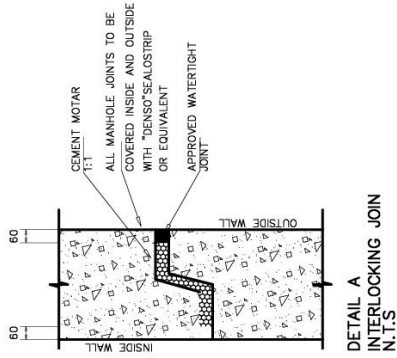
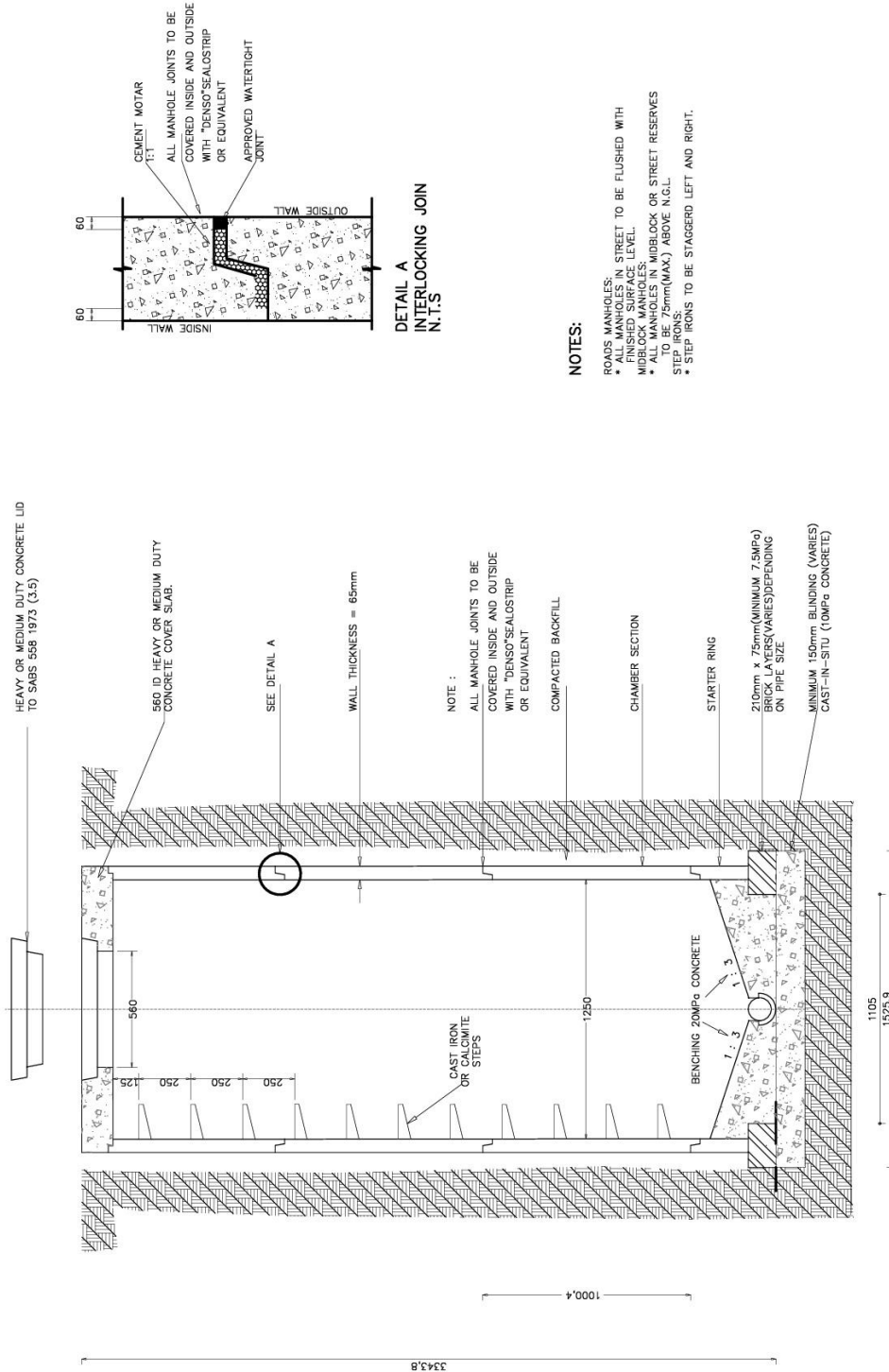
LD 7 TESTS

PS LD 7.1 GENERAL

Add the following to LD 7.1.5:

All tests shall be repeated after the completion of backfilling of pipe trenches.

**TYPICAL DETAIL OF PRECAST MANHOLE (ROCLA OR SIMILAR)**



- NOTES:**
- ROADS MANHOLES:
    - ALL MANHOLES IN STREET TO BE FLUSHED WITH FINISHED SURFACE LEVEL.
  - MIDBLOCK MANHOLES:
    - ALL MANHOLES IN MIDBLOCK OR STREET RESERVES TO BE 200mm (MAX.) ABOVE N.G.L.
  - STEP IRONS TO BE STAGGERED LEFT AND RIGHT.

**LD 8 MEASUREMENT AND PAYMENT**

**LD 8.2 SCHEDULED ITEMS**

**PS LD 8.2.1 Supply, Lay, Joint, Bed And Test Pipeline ..... Unit : m**

Add the following to LD 8.2.1:

The internal length of manhole is considered as the nominal internal diameter or size of the manhole shaft at the height where the pipeline connects to the manhole. Short lengths of pipe and additional couplings necessary to connect to manholes and structures are measured under this item.

No payment shall be made before the Contractor has not supplied the Employer with the following information and it has been verified as being within tolerance and specification:

- 1) ..Incoming and outgoing invert levels at each manhole together with the distance between each of the consecutive manhole measured outside the manhole structures for verification of slopes;
- 2) ..Compaction test results for granular and fill material as well as backfill material for verification of compaction.

No additional payments for supplying the above will be made to the Contractor and it will be deemed to be included in the tendered rates.

**PS LD 8.2.3 Manholes**

Add the following to LD 8.2.3:

**Precast sewer ring manholes ..... Unit : No**

Precast sewer ring manholes shall be measured complete as indicated on the drawings and the rate shall be all inclusive for benching, step irons, Securex Y-560-C or similar approved Ductile Iron medium duty cover and frame, and it shall make provision for all additional excavation and backfilling.

Manholes shall be provided with an additional concrete base. All costs involved in additional excavation, backfilling, material and labour shall be included in the rate for the additional base.

The depth of manholes as mentioned in the Bills of Quantities, shall be measured from the final cover level to the outlet invert level (flow level).

Half round splits in manhole benching shall be from concrete pipe.

**Concrete manhole cover / cover lid..... Unit : No**

PS LD 8.2.8 **Anchor Blocks** ..... **Unit : m<sup>3</sup>**

Add the following to LD 8.2.8:

Payment for anchor blocks shall be made for pipes with gradients steeper than 1:10.

PS LD 8.2.11 **Connection to Existing Sewer at manhole**..... **Unit : No**

Add the following to LD 8.2.11:

Separate items will be scheduled for each diameter of connecting pipe.

The tendered rate shall include full compensation for connecting the proposed pipe to the existing manhole, any additional channeling and benching associated with the connection, cutting the pipe to suit the connection, supplying and building in the short junction pipe, extra couplings, dealing with existing flow, preventing foreign material from entering the sewer and making the connection.

The excavation for pipelines, pipes, backfilling and manholes shall be measured separately.

Where a direct connection is made to an existing pipe, the rate covers all labour involved in opening the existing pipe, the removal of the existing end cap and disconnection at the pipe.

PS LD 8.2.13 **Connection to existing pipes** ..... **Unit : No**

Separate items will be schedules for each diameter pipe.

The tendered rate shall include full compensation for connecting the proposed pipe, any additional fittings associated with the connection, cutting the pipe to suit the connection dealing with existing flow, preventing foreign material from entering the sewer and making the connection.

PS LD 8.2.14 **Connection to Existing Structures** ..... **Unit : Sum**

Separate items will be scheduled for each diameter of connecting pipe.

The tendered rate shall include full compensation for the plant and labour to break into the existing concrete structure, disposal of rubble, cutting the pipe to suit the connection, dealing with existing flow, preventing foreign material from entering the sewer and building the pipe into the concrete work complete as described in PS G 8.10.

PS LD 8.2.15 **Extra-over for wrapping of pipe in root control fabric**..... **Unit : No**

The rate shall cover the cost of supplying and wrapping the pipeline collars in a chemical root control fabric such as Bio-Barrier or similar approved product according to the manufacturer’s specifications. The rate shall cover all labour, material such as tie-strips and plant required to install the product according to the manufacturer’s specifications. The rate shall also cover any additional excavation and handling of material required in the installation process.

**Concrete manhole cover / lid** ..... **Unit : m<sup>3</sup>**

**Custom lockable galvanised steel chamber cover** ..... **Unit : m<sup>2</sup>**

**Standard type 2A chamber cover and frame** ..... **Unit : No**

**EQUIPMENT COSTS**

Full comprehensive hourly rates, which also include the cost of the operators and other equipment, must be listed below. Rates must also include all the costs of consumable items, maintenance, depreciation, tools, and all other coincidences that shall be necessary to operate the equipment for the purpose it is designed for. The rates must also include all the overhead costs, profits, site supervision, insurance, holidays with payment, travelling costs (or travelling allowances) and residence allowances of operators and any other allowances that is applicable. No further percentage allowances shall be applicable on equipment. The Tenderer must list under each heading the fabrication and specification of the equipment available.

The Contractor will be paid the actual net cost of plant hired by him for Daywork and in addition will be paid a percentage allowance on the net cost of such hire which allowance will cover the Contractors overhead costs and profit

## **Scope of Works**

**Part C3C**

### **HA : STRUCTURAL STEELWORK**

HA 5           **CONSTRUCTION**

HA 8           **MEASUREMENT AND PAYMENT**

PS HA 8.3.6   **Corrosion Protection**

Substitute HA 8.3.6 with the following:

The corrosion protection of sundry steel items shall not be measured separately. The cost thereof shall be included in the rate for the related item.

**PB : BUILDING WORK**

**PB 3 MATERIAL**

**PS PB 3.42 PAINTS**

All MS doors, -door frames and –louvres to be finished off with paint, according to Manufacturer’s specifications.

Inside walls to be painted with approved white exterior wall paint.

**DOORS**

All doors shall be in accordance with municipality standards.

Internal/External doors shall be 2 panel HB hardwood door, size 800 x 2100 high, sanded down timber surface to a fine smooth surface with a quality timber sealant.

**WINDOWS**

All windows shall be in accordance with municipality standards.

Windows shall be 1050mm x 900mm high, sanded down timber surface to a fine smooth surface with a quality timber sealant.

**BRICKWORK**

All This work shall consist of the construction, reconstruction, rehabilitation, facework repairs and repointing of brickwork structures, also the construction of brick drainage layers, in accordance with these Specifications and the lines, levels, grades, dimensions and locations shown on the Drawings or as required by the Employer.

The rate shall also cover the cost all material, mortar to specification, brick force/ties and related to conventional brick work.

**ROOF STRUCTURE:**

The works shall consist out of the supply and construction of timber roof structures with IBR (inverted box rib) type cladding including all ancillaries required. A minimum roof pitch of 5° for roof lengths less than 30m will be used and 7.5° for roof lengths exceeding 30m. Roof cladding sheet metal shall have a minimum thickness of 0.75mm with a Z275 galvanised coating.

**SCHEDULED ITEMS**

**Clay brickwork, Single layer ..... Unit : m<sup>2</sup>**

**Clay brickwork, Double layer ..... Unit : m<sup>2</sup>**

**Waterproofing ..... Unit : m<sup>2</sup>**

**Damp proof course in external brick walls and above all doors and openings (375 micron)**

..... **Unit : m<sup>2</sup>**

**Damp proof membrane under floor slabs (250micron) .....** **Unit : m<sup>2</sup>**

**Internal Cement Plaster – Smooth .....** **Unit : m<sup>2</sup>**

**External Cement Plaster .....** **Unit : m<sup>2</sup>**

**Supply and install truss roof structure for security building, complete .....** **Unit : m<sup>2</sup>**

**Supply and install roof cladding for security building, complete .....** **Unit : m<sup>2</sup>**

**GEORGE MUNICIPALITY****DIRECTORATE: CIVIL ENGINEERING SERVICES****TENDER NUMBER: T/ING/012/2020****TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS****Scope of Works (Part C3D) – MECHANICAL AND  
ELECTRICAL SERVICES****Section 1: General****1. OVERVIEW****1.1 GENERAL REQUIREMENTS**

The purpose of the contract is to procure specialised services of a Contractor or Service Provider for ad-hoc maintenance, refurbishment and replacement work in George's Municipality's existing water and wastewater infrastructure for a period of three (3) years from the date of appointment. The work by the Contractor shall be supplementary to the Municipality's inhouse Technical Services and shall be on an ad-hoc basis. The Municipality requires a Contractor who can, at planned notice or at short notice, address critical maintenance requirements on the existing infrastructure.

The following scope of works pertains to the related design, procurement, installation, testing, commissioning, taking-over and closing-out of maintenance, refurbishment or replacement services by the Contractor and associated sub-contractors.

All material and labour items required to ensure a complete, functional, and compliant service must be provided as part of the tender offer.

**1.2 MINIMUM REQUIREMENTS FOR TENDERERS TO COMPLY**

Tenderers must be an established Mechanical and Electrical Contractor situated within a radius of 20 km from central George to ensure effective and swift service delivery. Alternatively, tenderers upon notification of appointment, will be given 30 days to ensure such workshop is established, before proceeding with formal appointment. The employer will inspect such workshop and approve it before commencing which will be used for eligibility checks. All inspections, refurbishment – and maintenance work shall be conducted at this premises. As such, proof must be submitted of all workshop facilities and capabilities, in line with the Eligibility Criteria.

Contractors must be registered in terms of the regulations with the relevant boards.

The Tenderer must have key personnel with the relevant qualifications, qualified trade tests at and accredited institution and experience in line with scope. Refer Schedule of Pricing for specific personnel requirements.

Knowledge of both mechanical installations / equipment (pump sets, motors, valves, pipework, etc) and electrical installations / equipment (MCCs, motor starters, instrumentation, etc) is strongly recommended and forms part of the functional scoring.

The Service Provider shall be responsible for supplying his own transport on- and off-site for employees and equipment for the duration of the works packages that is safe and comply with the National Road Traffic Act. As a minimum the following vehicle requirement shall be met:

- A vehicle to transport personnel to and from the sites. This includes all managerial staff and labourers. The kilometre rate shall for all costs associated, include for the labour cost of the driver, fuel, maintenance, etc.
- A vehicle to transport tools and small equipment with a payload of  $\pm 1.0$  ton, generally classified as a Light Delivery Vehicle. The vehicle shall have four wheel drive (4x4) with low-range. The kilometre rate shall for all costs associated, include for the labour cost of the driver, fuel, maintenance, etc.
- A vehicle to transport tools and large equipment with a payload of  $\pm 10.0$  tons. The vehicle shall be equipped with an onboard hydraulic crane for loading and off-loading equipment rated to the payload of the vehicle. The vehicle is generally classified as a crane truck. The kilometre rate shall for all costs associated, include for the labour cost of the driver, the labour cost of a certified operator of the crane fuel, maintenance, etc.

#### 1.2.1 Key Resources:

The following paragraphs cover the minimum requirements in order to complete expected works orders under this section, and where applicable must be met in the Pre-Qualification requirements, with respective Minimum scoring to be considered for appointment.

All requirements listed must be completed in the applicable schedules, with supporting documentation submitted as part of the tender submission.

#### **Personnel:**

The minimum requirements are described in Form 2.1.3 of the Returnable Schedule

Updated CV of all Key personnel as well as supporting documents/certificates must be submitted with the tender.

#### **Minimum Plant and Equipment Requirements**

- 1 x Four Wheel Drive (4x4) Light Delivery Vehicle (LDV) with a minimum payload of 1000kg / 1 Ton load.
- 1x Crane Truck with a minimum rated payload of 10 000kg / 10.0 tons.
- A Suitable workshop as specified under paragraph 13 below.
- Block and Tackles, geared trolley, slings and all related rigging equipment rated to a minimum of 2 000kg / 2 Ton
- 1x Set of tools for dismantling mechanical equipment, including any special tools required.

#### 1.3 **BROAD SCOPE OF SERVICES**

This section covers the Mechanical and Electrical Requirements related to the refurbishment, maintenance or replacement of existing mechanical and electrical infrastructure in the Municipal water and wastewater infrastructure

## Scope of Works

## Part C3D

This contract will be executed as a Main Contract, with specialist sub-contractors where required. The contractor shall liaise closely with the Municipal Technical Department as well as with their respective work forces/teams associated to the work.

The removal, refurbishment, maintenance, replacement and installation of mechanical and electrical equipment shall be done by the Contractor, or subcontractor(s) where applicable, and the Municipal Technical Department shall lead the coordination with the Main Contractor for the integration associated requirements. Refer to the typical process/proceedings flow diagram provided in Annexure 1. The Contractor shall allow for all costs involved in the liaison with the related or subcontracting parties, to convey the requirements or coordination and attend meetings as required, at tender stage as no additional costs will be allowed for during the contract for such work.

The Contractor shall supply all equipment, fittings and fixtures and install it according to the programme, timeously so as not to affect the execution of the infrastructure or related installations negatively.

The broad Mechanical and Electrical scope of work includes the following, but not limited to:

1. Removal, dismantling, inspections, reporting and reinstallation of pump sets and related mechanical equipment, with associated reporting.
2. Liaise with the Employers Agent, follow up with the Original Equipment Manufacturer (OEM) for all possible warranty claims, charges and adjustments.
3. Supply of and delivery of parts and spares to the various existing sites or George Municipality workshop or service provider workshop;
4. Repairs/Refurbishment of existing pump sets, motors, valves, pipework. etc, including supply and installation of replacement parts
5. Preventative maintenance on pump sets, valves, pipework, etc.
6. Supply and installation of new replacement pump sets, valves, pipework / manifolds, etc.
7. Site Testing of pumps and submission of prescribed test reports and guarantees;
8. Supply and installation of new Motor Control Centres (MCCs) as replacement of old, non-functional units.
9. Supply and installation of new Motor Starters as replacement of old, non-functional units in existing MCCs.
10. Supply and installation of new PLCs and HMIs as replacement of old, non-functional units in existing MCCs.
11. Supply and installation of new Instrumentation as replacement of old, non-functional units.
12. Supply and installation of new Remote Monitoring equipment as replacement of old, non-functional units.
13. Servicing and repairs to odour control equipment

## 2. **SITE**

The sites are all existing infrastructure and existing sites, located within a 20km radius from George central, including adjacent towns such a Wilderness, Harold's Bay, Victoria Bay,

etc as well as in the town of Uniondale. and Haarlem. A schematic indicating the general site locations is indicated in Section 6 of the Scope of Works.

Wastewater pump stations and treatment works are an inherent corrosive environment. All risk factors shall be taken into consideration with all materials of construction as well as the protective coatings offered.

The contractor shall make his own arrangements as far as lights, water and communications on the site is concerned. Cellular telephone reception is generally good within the towns.

The contractor is advised that the possibility of theft and vandalism is high. Suitable security arrangements and/or operational and installation policies and procedures must this be made by the contractor in this regard.

### 3. **TRANSPORT AND STORAGE**

As described in paragraph 2, the Service Provider shall be responsible for supplying his own transport on- and off-site for employees and equipment for the duration of the works packages.

Pump-set shall be assembled as complete as possible before removal from site. Stripped equipment shall be re-assembled as far as possible. Pump-set may have been stripped to assess damage. Loose components e.g. keys, shall be tied or taped to the equipment to prevent loss.

Equipment shall be properly marked and tagged with the appropriate address and functional location it has been removed from.

Equipment shall be placed on a pallet or dunnage and securely strapped down. Suitable shock absorbing material shall be used between the module and the pallet/dunnage, e.g. rubber mountings, conveyor belting, or rubber sheeting. Pumps, Motors and other equipment shall be tied down to prevent any movement or toppling over during transport.

The Contractor shall provide transport that is capable of handling the equipment safely, is roadworthy and has an up to date service record. Proof shall be submitted to George Municipality on request.

The Contractor shall provide up to date inspection log sheets for cranes, slings, tie down straps and all other lifting equipment as required by the OHS Act of 1993.

Notwithstanding the above the Contractor shall submit a safety management plan or policy governing maintenance of equipment and facilities.

Damage to equipment during transport shall be for the account of the contractor.

Equipment that is returned shall be suitably protected against the elements. Protection like plastic shrink wrap is acceptable.

All equipment stored (for refurbishment / waiting for parts, etc.) at the Contractor's facilities, shall be stored with in an undercover, locked building to protect it against environmental conditions and theft. All equipment must be clearly marked, and in case where equipment is partially or completely dismantled, all parts shall be stored in a single crate with a detailed list of parts. The list shall be compiled by the Contractor and must be inspected and signed by the Employer at the time that the equipment is put into storage.

All vehicles to be used for this contract are to be roadworthy and licensed for use on public roads at all times and must make provisions for the safe and lawful transportation of workers. Those vehicles used to transport debris removed from sewers must be able to do so in a safe and none-offensive manner and must have the Contractor's name and

telephone number prominently displayed. All vehicles to be used for this contract must conform to the Road Traffic Act RTA, Act 93 of 1996. Copies of proof of licensing and the ownership should be submitted along with your tender document.

All vehicles, equipment and containers used on this contract must be in a serviceable condition and must be readily available for inspection by the Director: Civil Engineering Services to ensure that it complies with the specification and must meet with the approval of the employer.

The vehicle and equipment shall be owned by the tenderer. Proof of registration must be attached to the tender document. If the proof thereof are not attached, your tender for the specific item will not be considered for evaluation.

Extreme care must be taken to prevent any spillage and suitable tools shall be available to immediately clean up any spillage.

All vehicles shall be fitted with a vehicle tracking device which can be located at any time as well as travel log be reported if need be by the client.

The Tenderer shall attach the list of vehicles and equipment to be used for the execution of the tender to his/her tender document for evaluation purposes. The municipality reserves the right to inspect the proposed equipment to be used.

#### 4. **APPLICABLE STANDARDS**

All work carried out, including design of plants and equipment supplied, must fully meet and be in compliance with the requirements of the Occupational Health and Safety Acts as mentioned in Section 4 below.

All official documents, datasheets, product name plates must be in English.

All applicable units of measure shall be in line with SI standards – International System of Units.

In addition, the latest revisions of the following statutory regulations, laws and obligations as pertaining specifically to any and all electrical work applicable to this specific project are applicable:

- The regulations of the local Supply Authority, as well as IEC regulations
- The regulations of the Client, being either Governmental, Municipal, Parastatal or Private
- Local fire regulations

All references to “SABS” specifications shall be read as “SANS” in light of the recent changes by the South African Bureau of Standards. Any reference made to a standard, shall refer to the latest available revision, or sub sequent standard that replaces the referred standard. Where a SANS Standard does not exist or if not applicable, the relevant IEC Standard shall be applicable.

In the event of discrepancy between any of the specifications, regulations and codes of practice, the SANS 10142-1 Code of Practice for Wiring of Premises shall take precedence, followed by IEC 60364 (low-voltage electrical installations).

Additionally, the following specifications, whether specifically mentioned, or not, within this document, shall also apply:

## Scope of Works

## Part C3D

SANS 1091: 2012	National colour standards
IEC 60304	Standard colours for insulation of LV cables and wires
SANS 10140 :2008	Identification colour marking
SANS 156:2007	Moulded case circuit breakers
SANS 60269-1:2010	Low-voltage fuses, Part 1: General
SANS 60269-4:2012	Low-voltage fuses, Part 4: Supplementary requirements for fuse-link for the protection of semiconductor devices
IEC 60227	PVC insulated cables of rated voltages up to and including 450/750V
IEC 61439	Low-voltage switchgear and controlgear assemblies
IEC 61557	Electrical safety in low voltage distribution systems up to 1000VAC and 1500VDC
IEC 61558	Safety of power transformers, power supplies, reactors and similar products
IEC 60364	Low-voltage electrical installations
IEC 61643	Low-voltage surge protection devices
SANS 475:2013	Luminaires for interior lighting, streetlighting and floodlighting – Performance requirements
IEC 62031	LED modules for general lighting – safety specifications
IEC 62717	LED modules for general lighting – performance requirements
SANS 10114-1:2005	Interior lighting, Part 1: Artificial lighting of interiors
SANS 10222-5-1-3:2007	Electrical security installations, Part 5-1-3: CCTV installations - CCTV surveillance systems for use in security applications - Installation, planning and implementation requirements
SANS 60793-1-1:2008	Optical fibres, Part 1-1: Measurement methods and test procedures - General and guidance
IEC 62305	Protection against lightning
SANS 10131:2004	Above-ground storage tanks for petroleum products
IEC 60076	Power transformers
SANS 780:2009	Transformer Testing
SANS 1084-1/2 : 2014	Electric Motor Standards
SANS 10131:2004	Fuel Tank Design and Construction
SANS 10198:2014	Cable Trenching
SANS 1804:2007	Induction Motors
SANS 62: 2013	Steel pipes
SANS 719: 2011	Electric welded low carbon steel pipes for aqueous fluids (large bore)
SANS 10044: 2004	Welding
SANS 2001 (collection)	Construction works
ISO 12944: 2017	Paints and Varnishes: Corrosion protection of steel structures by protective paint systems
ISO 8501:2007	Preparation of steel substrates before application of paints and related products -- Visual assessment of surface cleanliness
SANS 121:2011	Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods
SANS 32: 1997	Internal and/or external protective coatings for steel tubes -

	Specification for hot dip galvanized coatings applied in automatic plants
SANS 1123: 2015	Pipe flanges
ISO 4014: 2011	Hexagon head bolts – Product grades A and B
ISO 4032: 2012	Hexagon regular nuts (style 1) – Product grade A and B
ISO 7089: 2012	Plain washers – normal series – Product grade A
SANS 1200 (collection)	Standardized specification for civil engineering construction
SANS 664: 2011	Wedge gate and resilient seal valves for waterworks
BS EN 593: 2017	Industrial Valves. Metallic butterfly valves for general purposes
SANS 1551:2008	Check valves (flanged and wafer types)
ISO 9906: 2012	Rotodynamic pumps -- Hydraulic performance acceptance tests - Grades 1, 2 and 3
ISO 9905: 1994	Technical specifications for centrifugal pumps -- Class I
ISO 5199: 2002	Technical specifications for centrifugal pumps -- Class II
ISO 9908: 1993	Technical specifications for centrifugal pumps -- Class III
ISO 2585: 1975	End-suction centrifugal pumps (rating 16 bar) — Designation, nominal duty point and dimensions
ISO 3661: 1977	End-suction centrifugal pumps -- Baseplate and installation dimensions
BS EN 12756: 2001	Mechanical seals. Principal dimensions, designation, and material codes

**5. HEALTH AND SAFETY**

All work carried out, as well as equipment supplied, must fully meet and be in compliance with the requirements of the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations (2014) issued in terms of Section 43 of the Act.

The Contractor shall comply with all safety requirements of the Main Contract and shall submit a Health and Safety Plan and File to the Main Contractor for approval.

Please note that the requirements of the new construction regulations 2014 have been in effect from February 2014. The new regulations place additional legal duties upon contractors and sub-contractors. Although this health and safety specification includes much of the content of these new requirements, the contractor will be deemed to be familiar with the requirements of these regulations, and to have factored in all the duties placed upon contractors and sub-contractors in the tender.

A copy of the regulations can be viewed on the Department of Labour’s website.

The Contractor shall allow for permanent warning- and applicable first aid signage in accordance with SANS to be installed at each site. This shall include, but not limited to the following:

1. Pump Station identification sign, indicate the name of pump station and responsible person
2. ‘Warning’ and ‘Authorised Entry’ on outside of the building(s) or perimeter fence.
3. First Aid sign for electrical shock and CPR

The Contractor shall allow for all the specific requirements for working in sewage sump, including but not limited to, ladders, ventilation fans, harnesses and safety ropes, oxygen and breathing apparatus, etc.

**5.1 Risk Registers**

A provisional Risk Register is provided in Part C5 of the document.

**5.2 COVID19 Directives**

Further to the regulations as set out in the Act, refer to Part C5 for the COVID 19 Health and Safety Specification Addendum : Applying the COVID19 Directive on Health and Safety in the workplace issued by the Minister in terms of Regulation 10(8) o the National Disaster Regulations that is applicable on the Contract.

**6. PROCEDURES AND MANAGEMENT**

The Contractor shall be contacted on an ad-hoc basis based, and the following procedures shall be followed and allowed for by the Contractor:

The Contractor shall keep a logbook of all instruction issued by the client. All items shall be signed off by the Employer.

A typical process of a planned requirements or works orders is indicated in the flowchart in Annexure 1

**6.1 Identification Services Required:**

The Service Provider shall be notified by the GMR if any services are required.

The GMR will inform the service provider of any part or spares requirements to be delivered to the municipal Depots or to the sites or of specific pumps that need to be serviced, repaired and maintained.

Due to the uncertainty and fluctuation of the Municipality's requirements, no indication can be given as to the quantities of the above-mentioned items which will be required under this contract. The Service Provider will therefore be required to supply the requirements in such quantities as may be required by the Municipality from time to time. When supplies are required, the Municipality will endeavor to place orders on an as- and- when- required basis, as far in advance as possible.

**6.2 Works Not to Interfere:**

The various operations that make up the Works will be operational throughout the Contract and/or completion of works orders. The Service Provider shall ensure that the Works do not affect operations without good reason and that there is access at all times.

The GMR will attempt to ensure that a duty pump is operational and that standby pumps will be targeted for the works packages to limit down time of the operating plant.

**6.3 Overtime Work on Site:**

Overtime on site will only be allowed if exclusively requested or approved by the GMR. A written request with supporting evidence is required if the Service Provider requests overtime work. Overtime work will only commence after the approval is received from the GMR. Working hours will be as per definition in paragraph 8.2.

**6.4 Sequence of the Works:**

The Service Provider shall be responsible for determining the sequence of the tasks per works package/order, in conjunction with the GMR and shall be captured in a works package program / schedule with detailed tasks and durations which shall be subject to the approval of the GMR.

**6.5 Competent Personnel:**

Only competent personnel that have been adequately trained by the Service Provider shall execute all the required work.

All equipment and machinery requiring specially trained or certified personnel, only such personnel shall operate these equipment and machinery. No other personnel may operate it.

**6.6 Communication:**

The Service Provider shall ensure that its representative is accessible by telephone, email and a cellular telephone connection to ensure that he can be reached during normal working hours. Services may be required in an emergency outside of normal working hours therefor an Emergency contact number will be made available.

The specific works package initiated by the GMR will list the specific contact details of relevant operating and maintenance personnel at the various installations.

Should the GMR or operating and maintenance personnel determine or suspect that preventative, corrective or breakdown maintenance is required, a call shall be logged through the GMR to reach the Service Provider as soon as possible.

**6.7 Works Scheduling and Approval:**

The Service Provider shall visit the site with the GMR and submit a detailed works programme prior to work commencing on site, unless stipulated as an emergency whereby submission is required as the emergency requires. The programme shall clearly indicate the detail and nature of work to be completed, which section of the works will be effected, how water will be handled, a detailed schedule clearly indicating the duration of work (kick-off date to date of commissioning).

Only once the works programme has been approved by the Employer, will the Service Provider be allowed to proceed with the Works.

The Works execution Programme to be submitted to the Employer, by the Service Provider shall;

- a) List the detailed tasks and duration of each task;
- b) List the plant, tools and equipment that will be used;
- c) Clearly identify all the major maintenance activities that may have a significant impact on the day to day operations of the site;
- d) Indicate hold points either on site or within the workshop as determined by GM;
- e) Indicate submission of required documentation;
- f) Take full cognizance of all the Service Provider's risks and obligations in terms of the Contract

**6.8 Inspection Reports**

An electronic inspection form must be completed and send via email or memory-stick / flash-drive to the GMR including all required test reports and photos after every service, refurbishment, reconditioning or repair.

The inspection form will indicate clearly the name of the pump, as well as the pressure class of the pump, test reports, detail the work that was or needs to be carried out, photograph of the equipment nametag, photograph of the works being carried out or disassembled pump or defects on site, indication of defects that requires replacement of the parts.

Where alignment between the motor and the pump shaft is required the alignment will be done based on the OEM specifications, and the report will be provided indicating the alignment measured.

**6.9 Standard Call-Outs, Work and Site Visits:****6.9.1 General:**

During the Contract Period the GMR will invite the Service Provider to meet on site to discuss new work or instruct the Service Provider to perform emergency work. The Service Provider shall allow for all costs involved (Labour, Plant and Material) required to perform the task. The Standard work packages described below shall be priced as a fixed cost per work package, with no additional cost unless otherwise indicated.

The Contractor shall allow for all costs for labour, plant and consumables required for on-site and at the Service Provider's facilities / workshop.

Refer to the typical Procedure Flow diagrams in Annexure 1 for all gates that must be adhere to, approval of the GMR and applicable hold points.

**6.9.2 Initiation Meeting:**

The Service Provider shall allow for all costs associated for the Contracts Manager and Supervisor to meet with the GMR on site (site as indicated by the GMR) to discuss new work required by the Employer. This will include discussions to determine the scope of work, timeline, coordination and switch-over, and any other requirements.

**6.9.3 Minor work:**

Should the GMR instruct the Service Provider to go to site, the Service Provider shall send a team of relevant technical personnel to address the task as instructed. This shall include the key personnel, as well as any assistants required to complete the work.

The Call out fee shall include for at least 2 hours on site for the team and shall include for all travelling and transport to and from the site. It shall be charged at a fixed rate per trip / call-out.

Additional time (over and above the allowed for 2 hour) on site shall be recorded (including reason provided) and submitted to the GMR for approval. If approved, the additional labour shall be paid to the Service Provider.

**6.9.4 Removal, inspection and reporting on the status of equipment:**

Should the Employer instruct the Service Provider to remove a piece of equipment for inspection and condition assessment, the Contractor shall allow for a team of relevant technical to travel to the applicable site with a suitable vehicle that will be able to transport the equipment back to their workshop.

The Contractor shall allow for all labour, plant and consumables required for the actions required:

- Transport to and from site for removal of equipment, including transporting equipment back to the workshop,
- removal of equipment as per instruction,
- double handling,
- cleaning of the equipment,
- dismantling of the equipment,
- safe storage of equipment

- conduct a conditional assessment,
- submission of a condition report on equipment to the GMR,
- inspection with the GMR to confirm assessment to confirm scope of refurbishment work,
- re-assembly of equipment (only once GMR instruct – either with existing parts or replacement parts),
- inspection with the GMR to sign-off work performed (including any FAT that may be required to prove functionality of equipment),
- transport to site and from the site to reinstall the equipment,
- installation of equipment in original position,
- commissioning and testing of equipment
- Inspection with GMR to sign-off installation

As part of the work, the Employer, together with the Contractor will assess the feasibility of refurbishment versus replacement of the equipment at hand. No refurbishment / replacement work may be done before the Employer has issues an instruction to proceed.

The work shall be charged at a fixed rate per work instruction issued (per unit). No additional time will be paid by the Employer above the fixed rate unit.

#### 6.9.5 Refurbishment of equipment:

Once the equipment assessment is accepted by the GMR the Service Provider shall submit a quotation to the GMR with the OEM quotation on the replacement parts, mark-up on replacement parts based on the tendered percentage, the manhours required for machining and installation of additional parts. Work may only commence once the GMR has formally approved the quotation.

Only once the GMR issued the instruction to refurbish shall the Service Provider proceed with the ordering and replacement of the parts as agreed with the Employer. The Employer shall only pay for the labour and materials costs of the parts that was agreed upon to be replaced.

Once the refurbishment is completed, the Employer shall inspect the equipment at the Contractor's premises prior to it being installed. The equipment may only go back to site once the GMR found the equipment in order. The Service Provider shall allow for the suitable FAT to illustrate to correct operation of the equipment to the GMR before it goes to site.

The refurbishment cost shall include for the labour, plant and consumables required for the, where required, machining of parts, fabricating of part, alterations, replacement of parts that was not already covered under the inspection process (e.g. bearings), etc.

The installation of replacement parts, reinstallation of the finished equipment and commissioning is already covered under the re-assembly priced in the inspection.

#### 6.9.6 Unblocking and cleaning of sewage pumping equipment:

Should the Employer instruct the Contractor to unblock a clogged submersible / dry well pump set, the Contractor shall allow for all labour, plant and consumables required for a team to travel to site, remove the pump from the sump (in the case of a submersible

installation), clean out the pump from any debris from the volute / impeller, inspect if any damage was caused or if visibly worn, and reinstallation of the unit. Before the Contractor leaves the site, they must ensure that the pump is correctly operating and that there are no debris in the sump that might cause a clogging again.

The work shall be charged at a fixed rate per work instruction issued (per unit). No additional time will be paid by the Employer above the fixed rate unit.

#### 6.10 **Management of Redundant Equipment**

All replaced parts and components will be returned to the George Municipality site where it originates from.

The Service Provider shall keep a record of all scrap generated by the replacement of parts. This record shall refer to the serial number it is generated from. Scrap shall be stored separately and shall be delivered to site indicated by the GMR.

The GMR will advise on how the scrapped assets will be disposed of. The GMR will be responsible to co-ordinate and manage the scrapping of equipment on behalf of the George Municipality

Any pump or equipment deemed as uneconomical to repair / refurbish will be re-assembled and returned to the depot or site from which it was collected.

#### 6.11 **Approval / Acceptance of Parts, Equipment and Material**

Parts will be accepted based on receipt / invoice of the Original Equipment Manufacturer and proof of replacement of the original parts. Replaced parts will be inspected by the GMR before equipment is fully re-assembled.

The equipment and material will be accepted at the place of delivery and/or installation based on compliance with inspection and test reports.

Rejected items will be held at the risk and expense of the Service Provider, who before such items are replaced, will pay full railage, shippage or airfreight from the place of delivery to the place rejected; also handling charges, storage and customs duty, if any. Rejected items will, if required, be replaced by the Service Provider immediately on receipt of notification of the rejection.

### 7. **MEASUREMENT AND PAYMENT**

Measurement and payment of services by the Service Provider will be broken down and handled as follows. The service provider and GMR will together agree on the quantities required for the specific works package and whereafter an official purchase order will be issued before any works are to be conducted.

#### 7.1 **Preliminary and General**

##### 7.1.1 **Insurances**

As described in the General and Special Conditions of Contract, this item will cover all contractual related insurance such as Contractor's all risk and Public Liability to the respective values specified.

##### 7.1.2 **Health and Safety**

All costs related to compliance with Health and Safety requirements as specified under the respective sub section and in accordance with the scope of work tendered.

This is further split into initial Health and Safety plan and file submission and then further maintenance of compliance.

**7.2 Transport and Travelling**

The unit of measurement shall be "Trip" as indicated in the Bills of Quantities and specifications. It is made known that all sites are within a radius of 20 km from George Central, with the exception of Uniondale and Haarlem which is priced as indicated. A trip is deemed a return trip between the Service Provider's premises and the site or the George Municipalities workshops.

The fixed rate per trip shall include charges for overheads, fuel, driver, delivery, travelling time, loading, offloading, maintenance of vehicle, and profit for the respective plant or vehicle required. For a trip to Uniondale or Harlem, an alternative rate or extra over rate shall be provided to cover the additional kilometers travelled and additional travelling time required.

Under the Day Works Schedule, these rates shall only be used under "Special Project" and approved conditions and these rates do not form part of the actual services rendered

**7.3 Labour**

The unit of measurement shall be an hourly rate to supply the required labour as required and defined in the specific scope of work and specifications per service measured per hour. This is further split between the definitions of Normal Hours and After Hours/Overtime as specified elsewhere.

Under the Day Works Schedule, these rates shall only be used under "Special Project" and approved conditions and these rates do not form part of the actual services rendered

**7.4 Scope of Services**

Rates shall be for the services as specified in the respective scope of services and measured in the bills of quantities and include all plant required (wetted rates), transportation, material and labour for the successful completion of the service, measured in the unit as indicated in the Bills of Quantities.

The rate indicated in the Bills of Quantities shall allow for and include an upfront Meeting on Site, by either the contracts manager or foreman, with the Employers Representative to discuss scope, measure quantities and finalise works package in principal.

Rates shall be deemed wet rates for all plant and equipment.

Where services are measure per m, the total length of meters to be remunerated per works order, will be from the start/inception manhole to the next.

Disposal of removed material shall be included in the same rate.

As indicated in the Bills of Quantities, an extra over for services outside of the 20km radius of central George, for sites in Haarlem and Uniondale, an additional rate to cover time and travel must be included.

**7.5 Percentage Handling**

Where indicated and applicable, the service provider shall Tender the percentage handling charge applicable where rates are not tendered, and/or pricing by OEM supply or other services still has to be established. In this case the client may request that 3 or more quotations are obtained, subject to the scope of supply and services required, as well as estimated value.

**7.6 Payment:**

No work shall commence without an official purchase order.

Once the works order is successfully completed by the service provider, the employer's representative shall inspect the works and sign off with name, date and signature on the approved works order or works plan. This shall be used in support of the invoice when submitted, as described in the contract conditions.

Invoices shall clearly state the official client order number, tender number, site location/name and clients VAT Number.

**8. COMPLETION, PROGRAMME AND RESPONSE TIME****8.1 Completion and Programme:**

The contract period for appointment is for a period of three (3) years from the date of the formal appointment.

The requirements regarding the programme of work / tasks during the contract period shall be communicated by the Employer, including the critical status of the task as well as the envisioned programming of the task, and it shall be agreed upon with the Contractor prior to commencement of any work.

**8.2 Working Hours:**

The working - or operational hours are classified as following:

- Normal time: 07:30 to 16:59, Monday to Friday
- Normal overtime: 17:00 to 07:29 Monday to Friday and 00:00 to 23:59 on Saturdays
- Sundays and Public holidays: 00:00 to 23:59

Scheduled or non-emergency work, unless instructed by the Employer's representative, may not be done outside the normal time hours.

Most work for this purpose shall be deemed to take place during normal working hours unless otherwise advised.

**8.3 Response Time:**

Given the nature of the work required, it is imperative that the Contractor is available and able to effectively service the Municipality on short notice when called upon. As such, a contractual response time will be in effect from the moment the Designated Party from the Municipality contacts the Contractor, with a request for assistance, per specific request.

All electronic / verbal communication will be assumed to be received immediately and response times will be taken from the time it was sent by the Employer.

**Normal Request:**

During normal working hours (as defined in C2.1D Pricing Instructions) the Contractor must have the duly required personnel on-site within two (2) hours of the task request.

**Emergency Request:**

In cases where the Employer deems a situation to be an emergency or critical, and communicated as such, the Contractor must have the duly required personnel on-site

within sixty (60) minutes (within the 20k radius around George) and within one hundred (100) minutes of the task request.

A 10-minute grace period will apply per call-out, with the final time decision to be made solely at the discretion of the Employer

Should the Service Provider or his designated key personnel fail to be on time (grace period included), then a financial penalty will apply. The penalty rate shall be equal to 2x the key personnel's hourly rate (the key personnel of the Contractor who was required to be on site) and shall be charged on an hourly basis for the amount of time (rounded up to complete hours) that the Service Provider is late (charged at a fixed hour rate). The GMR will keep record of all applicable penalties during the month period, communicated with the Service Provider, and deduct the appropriate amounts from the Service Provider's claim every month. The GMR reserves the right to roll-over penalty amounts to a following month.

9. **DISPOSAL OF MATERIAL/ REDUNDANT EQUIPMENT**

All removed material shall be disposed of at suitable waste disposal/management site. Receipt/proof of disposal shall be kept by the contractor and submitted with the supporting documents for the invoice.

No charges will be applicable for dumping. The contractor shall however arrange and ensure that all required permits and paperwork is in place and the correct procedure followed.

All removed, decommissioned and scrapped material or equipment remains the property of the Employer. The employer shall indicate where this must be delivered. The service provider shall ensure that all records of such material and delivery thereof are kept and made available if required.

The employer will provide all relevant contact and logistical details applicable to disposal at the commencement of the contract.

10. **NON-PERFORMANCE**

Should the service provider fail to perform in accordance with the agreed programme and allowed time as per the works package, penalties applicable will be in line with that stated in the Specific Conditions of Contract, unless otherwise indicated in the scope of works section.

11. **CONSEQUENTIAL DAMAGES**

Should the non-performance of the service provider bring about any consequential damages to property and/or clients of the Employer, the service provider and/or their insurers shall be held liable. All caution shall thus be taken to manage and remedy situations with agreement and approvals of the employer.

12. **DRAWINGS**

Should a new MCC or pipework form part of an order, The Contractor shall supply the following information in duplicate for approval before commencing manufacturing within two (2) weeks after receiving the written order:

- Pipework layout and detail drawing
- MCC layout and single line diagrams detailing all control metering and indication circuits inclusive of a description of circuit operation

**NOTE:**

Drawings must be neat and clearly legible. Circuit diagrams must be done on a grid system with elements of control equipment referred to applicable (grid) line numbers in a schedule directly below the relevant control device.

**NOTE:**

The Contractor shall allow for the costs involved for the complete surveying of the structures to confirm all dimensions required to do the detail design and compile the working drawings.

**13. WORKSHOP FACILITIES**

The Service Provider shall have a fully functional, permanent workshop in the George area (within a 20km radius from the town's central), or within 30 Days of notification of appointment, setup such workshop. All work on equipment removed for inspection, maintenance or refurbishment must be done to this workshop, therefore the facilities must be equipped any specialised equipment and personal required to handle and perform both mechanical and electrical work that may be required.

All inspections on equipment by the Employer shall be done at this facility.

The minimum requirements for the Workshop are:

- 3 ton lifting equipment with sufficient height to load and offload pump dimensions of typically 2m high from a truck or LDV
- Work benches to suit working on the list of pumps indicated in the Bills of Quantities
- Wash-bay and with suitable handling and cleaning facilities raw sewage on and in pumps
- Hydraulic press
- Bearing Pullers and all related small tools.
- Safe and lockable storage area

The workshop will be inspected for compliance and suitability and the Employer will have to do ad-hoc and specific routine inspections as part of the works and during certain hold points.

The Service Provider shall submit a plan of where equipment will be stored before and after the stripping process. The plan shall indicate protection against inclement weather and access by third parties. The forming of condensation or ingress of moisture shall be prevented during storage. The area shall be lockable and have a concrete floor. All equipment shall be stored on the floor on wooden pallets or rubber mats and parts (or dismantled equipment) must be stored in wooden crates that is clearly marked for identification purposes (parts of different equipment must be stored in separate crates). Where applicable spares shall be kept on shelves.

Components belonging to the same module shall be stored next to the module.

The Contractor will be entirely responsible for the safe custody, storage and transportation of equipment and materials from the time and day the equipment or materials are removed or received by the Service Provider until returned and installed on site.

**14. FACTORY TESTING**

The following equipment must be demonstrated in the factory to the Employer and all equipment necessary to test the performance and operation of said equipment must be provided:

1. Electrical Distribution Boards
2. Motor Control Centres (MCCs)
3. Power Factor Correction Equipment (PFC)
4. Pump set workbench performance testing

Before the Engineer is called to witness any testing, the Contractor must test the equipment and integrated control system on his own and confirm in writing to the Employer that the equipment conforms to specification. Refer to each section of equipment with the project specification for detailed testing requirements.

**15. SITE TESTING AND COMMISSIONING**

The refurbished / newly replaced equipment as installed must be functionally tested by the Contractor, and thereafter commissioned and optimised to ensure a fully functioning and compliant installation.

No section of the plant may be made 'live' until a valid and complete Certificate of Compliance (COC) has been issued for said section of plant.

**15.1 Functional tests that must be carried out and recorded must include:**

- Phase rotations
- Insulation tests
- Continuity paths
- Routine tests as required per manufacturer equipment
- Energy meter calibration and integration with Client and Supply Authority, where required, including energy meter orientation and functional operation
- Measuring of voltages and currents, including overload protection settings
- Phase balancing for as even distribution as possible
- Site specific levels, pressures, flows
- All final system setpoints, values, protection settings and other applicable data must be compiled into a singular tabular format and included into the manuals to act as a basis for any further changes in the future.
- Pump performance testing in accordance with the Project and Standard Specification.

**16. OPERATIONAL AND MAINTENANCE MANUALS**

The Contractor must prepare and supply updates to the existing manuals, where new equipment was installed, for the successful operation and maintenance of the equipment that was worked on or replaced. One (1) draft copy of the manual must be submitted,

before commissioning, for approval. The draft must then be corrected, if required, and two hard-copy sets of the final manual / insert and two complete soft copy sets on USB memory sticks must be submitted before first acceptance of the plant will be taken. The draft copy of the manuals shall be used for the training exercise.

A taking-over inspection on-site will not be arranged if a first round of manuals has not been provided and commented on by the Employer.

These manuals must contain the following information as a minimum (applicable section):

**Section 1 : System description**

A comprehensive description of the system including schematic diagrams, where required for clarification.

**Section 2 : Commissioning data**

The results of all checks and measurements as recorded during the commissioning period must be included and be compiled in such a manner that every check and measurement is clearly defined. A list of all set points and operational points must be provided in table format.

**Section 3 : Operating instructions**

- 3.1 Pre-start checklist for each individual plant.
- 3.2 Starting and stopping instructions.
- 3.3 Plant running checklist.
- 3.4 Safety precautions to be taken.
- 3.5 Manual operation.
- 3.6 Operator's duties.

**Section 4 : Maintenance instructions**

- 4.1 Schedule of maintenance particulars.
- 4.2 Part numbers of all replacement items.
- 4.3 Serial numbers of principal pieces of equipment.

**Section 5 : Mechanical equipment**

The following information shall be provided for all Mechanical equipment:

- 5.1 Mechanical equipment schedule with make, model number, rating, commissioning setting and name, address and telephone number of supplier.
- 5.2 Maintenance instructions.
- 5.3 Manufacturer's brochures and pamphlets.

**Section 6 : Electrical equipment**

The following information shall be provided for all electrical equipment whether MV, MCC, PFC or field mounted.

- 6.1 Electrical equipment schedule with make, model number, rating, commissioning setting and name, address and telephone number of supplier.
- 6.2 Maintenance instructions.
- 6.3 Manufacturer's brochures and pamphlets.

**Section 7 : Instrumentation, control and energy system**

- 7.1 Description of each individual control system.

- 7.2 Control equipment schedule with make, model number, rating, commissioning setting and name, address and telephone number of supplier.
- 7.3 Manufacturer's brochures and pamphlets.
- 7.4 Maintenance instructions.
- 7.5 All setpoints, system settings and protection values in tabular format as per final installed system

**Section 8 : Telemetry and SCADA**

- 8.1 Description of each individual outstation including make, model number, rating, commissioning settings and name, address and telephone number of supplier.
- 8.2 SCADA screenshots, parameter setpoints and basic control functionality.
- 8.3 Manufacturer's brochures and pamphlets.
- 8.4 Maintenance instructions.

**Section 9 : Drawings**

Paper prints or reduced sized prints of all Contractor's drawings update to "as built" drawings.

The contract will be considered incomplete until all tests have been conducted to the satisfaction of the Engineer and all drawings and manuals have been handed over to the Engineer.

**17. TRAINING**

The contractor must allow for and include any respective operation and maintenance training required for key management and operations personnel of the client of all components covered in the scope of contract and installation.

The training must be conducted for a minimum of one day and must be a combination of general mechanical and electrical training for the applicable operators. Telemetry/SCADA training must be integrated with this holistic training. Generator training must be done as a separate, dedicated exercise, with the applicable electrical personnel. An attendance register must be provided and signed at each training session, and all required and present members must sign this register. It must be included into the maintenance manuals.

**18. TAKING-OVER TESTS**

Only once the Contractor has confirmed in writing that the functional plant testing and commissioning optimisation has been done, including the first round of Client and operator training, as well as approved manuals are in place, can a date be set for the final taking-over inspection.

The Contractor will be required to make suitable arrangements for demonstrating the plant and equipment supplied under this contract in the presence of the Engineer or his representative, to prove it fully complies with the specification. Any or all of the test results must be demonstrated to the Engineer at his request.

A competent person per applicable discipline, fully conversant with all aspects of operation, must be present to carry out the demonstration.

**19. MAINTENANCE, DEFECTS LIABILITY PERIOD AND FINAL INSPECTION**

The Contractor shall be responsible for proactive and reactive maintenance required during the 365 day defects liability period, including all costs involved, on all equipment that was replaced under this contract.

## **Scope of Works**

## **Part C3D**

After the 1 year/12 month defects liability/warranty period, a final meeting and equipment inspection will be held. Should all inspections prove successful, a final completion certificate will be issued to the contractor and any retention money will be approved and released for payment, the original guarantee returned, culminating in the successful completion of the project.

**Section 2: Specifications: Mechanical**

**1. GENERAL SCOPE**

The Mechanical scope of works consists out of the following main components:

- Refurbishment of existing mechanical equipment associated with pump stations and WWTW or WTW, such as pumps, motors, mechanical screens,
- The supply and installation of new submersible / drywell sewage pump sets and drywell water pump sets, as replacement of existing units.

**2. REFERENCE TO STANDARD SPECIFICATIONS**

The Mechanical Project Specification shall be read in conjunction with the following Mechanical Standard Specifications:

MSS01	Pumping Equipment	Revision 03
MSS02	Pipework and Valves	Revision 03
MSS03	Materials and Coatings	Revision 01
MSS04	Ancillary Equipment	Revision 03

The Mechanical Project Specification shall take preference over the Mechanical Standard Specifications should there be contradictions. The Mechanical Specification shall also be read in conjunction with the Electrical Project Specification and Electrical Standard Specification(s) to ensure integration and allowance made for interfaces that may be required for instrumentation and other electrical equipment.

**3. REFURBISHMENT OF EXISTING EQUIPMENT**

**3.1. GENERAL**

The Contractor shall allow under the refurbishment service for the refurbish, fit replacement parts, etc to existing mechanical equipment. Once the condition assessment was completed (as described elsewhere in the specification) and the list of replacement – and refurbished parts was agreed upon, the Contractor shall order the necessary parts (or use parts held in stock), and refurbish the necessary parts. The Contractor shall submit the quotation of replacement OEM parts to the Employer, on which a percentage mark-up shall be taken to cover all overhead costs and profit. The percentage mark-up is priced in the Schedule of Prices, specific for the respective equipment.

The labour component of installing new / replacement parts should be covered in the assessment of equipment (as described elsewhere in the specification), as it already included the reassembly of the equipment. This shall include installation of new bearings, seals, etc.

Where shafts must be machined to refurbish surface areas for bearings and seals, the Contractor shall make use of the specific lathe / machining rate.

All parts supplied, shall either be OEM or third-party parts that are approved by the OEM.

**3.2. PUMPS**

Pumps to be refurbished, shall include the following types:

- Submersible sewage
- Self-priming sewage
- End-suction water

For refurbishment of pumps, the following items shall be replaced (or as instructed by the Employer), but not limited to:

- Pump volute
- Impeller (including trimming and balancing)
- Pump shaft
- Bearings
- Mechanical seals
- Wear plates
- Diffusors
- Lubricants
- Couplings

Further to the replacement of parts, the following service shall also be included:

- Balancing of the rotating assembly
- Laser alignment

### 3.3. MOTORS

Motors to be refurbished, shall include the following types:

- Submersible sewage, 400V 3 phase, 2/4/6/8 pole
- TEFC, 400V 3 phase, 2/4/6/8 pole

For refurbishment of motor, the following items shall be replaced (or as instructed by the Employer), but not limited to:

- Motor shaft
- Bearings
- Seals
- couplings

Where required, the TEFC motor shall be rewound by an approved Specialist. The cost for the rewinding of motors shall include for all costs, including labour, plant and material required, including the baking process.

### 3.4. GEARBOXES

Gearboxes to be refurbished, shall include the following types:

- Helical / spur gear type

For refurbishment of gearbox, the following items shall be replaced (or as instructed by the Employer), but not limited to:

- Shaft

- Bearings
- Seals
- Gears / sprockets
- Couplings
- Lubricants

3.5. AERATORS / MIXERS

Aerators to be refurbished, shall include the following types:

- Vertical turbine floating
- Vertical turbine fixed
- Horizontal brush
- Vertical mixers

For refurbishment of aerators, the following items shall be replaced (or as instructed by the Employer), but not limited to:

- Propeller
- Shaft
- Bearings
- Base plate
- Lubricants

All replacement parts shall be propriety parts of the OEM.

3.6. MECHANICAL SCREENS

Mechanical Screens to be refurbished, shall include the following types:

- Vertical front rake

For refurbishment of screens, the following items shall be replaced (or as instructed by the Employer), but not limited to:

- Rake
- Screen bars
- Drive chains
- Bearings
- Shafts
- Lubricants

All replacement parts shall be propriety parts of the OEM.

**3.7. SLUICE GATES / PENSTOCK / OVERFLOW WEIRS**

Penstocks to be refurbished, shall include the following types:

- Wall mounted
- Channel mounted
- Bottom opening overflow weir

For refurbishment of equipment, the following items shall be replaced (or as instructed by the Employer), but not limited to:

- Seals
- Spindle and nut
- Head stock and hand wheel
- Spindle extension
- Lubricants

**3.8. MACERATORS**

Macerators to be refurbished, shall include the following types:

- Pipe mounted
- Channel mounted

For refurbishment of equipment, the following items shall be replaced (or as instructed by the Employer), but not limited to:

- Shaft
- Blade stack
- Seals
- Bearings
- Gearbox
- Electrical motor
- Lubricants

**3.9. I-BEAM GANTRIES AND GENERAL STEEL WORK**

Where the corrosion protection layer on steel work requires maintenance, including I-beam gantries and general steel work, the following work shall be required by the Contractor.

- Sanding down of the piece of material (or a section) as instructed by the Employer
- Treating of metal with corrosion protection under coat
- Painting of topcoat (multiple layers)

The type of undercoat and topcoat shall be inline with the paint / corrosion protection standard specification for the different scenarios. The Contractor shall allow for all costs involved and shall be priced per m<sup>2</sup>.

#### **4. SUPPLYING OF NEW EQUIPMENT**

##### **4.1. GENERAL**

Where instructed, the Contractor shall supply new equipment, replacing existing equipment. This shall include the installation and commissioning of the new equipment.

##### **4.2. PUMPING EQUIPMENT**

###### **4.2.1. General**

The Contractor shall allow for the supply and installation of new pump sets where required. Once the instruction is received from the Employer, the Contractor shall make a suitable pump selection from the list of priced units and submit the selection to the Employer for approval. The submission shall include the pump hydraulic -, power -, efficiency -, and NPSH curve in conjunction with the detailed data sheet indicating the technical information, motor sizing and material selection of the selected pump. Only once the Employer has approved the pump selection, shall the Contractor order / procure the pump set.

###### **4.2.2. New Pump Sets – Submersible Sewage Pumps**

The pump sets shall be installed in existing wet sumps with a possibly small pumping capacities and therefore might experience a high number of starts per hour. The Manufacturer must provide sufficient protection to prevent the motors from overheating.

The Contractor shall allow for the supply and installation of new, complete pump set(s). The pumps shall be of the centrifugal, single stage, close coupled, submersible type pump equipped with a vortex impeller, suitable to pump raw sewage. It shall be driven by a close coupled electrical motor. The pump shall be priced with a full-size impeller according to the rated motor sizing offered. The solids handling shall be as per the schedule provided in the Schedule of Prices.

The electrical motor shall be suitable for full submergence. Motor protection by means of winding thermistors (PTCs, two per winding) and seal failure sensors must be installed. The operational speed less than 1500 rpm are preferred and must be used as much as possible, however where required, operation speed of up to 2900 rpm shall be accepted. The pump shall be ordered with the correct length of motor and sensor cables to reach the junction box / MCC outside the wet sump without any joints.

All pumps supplied shall be from a single manufacturer.

###### **4.2.3. New Pump Sets – Submersible Sewage Pump Accessories**

For submersible pump installation, the installations shall be semi-permanent type, with auto-coupling equipment. Each pump shall be equipped with a suitable duckfoot bend, 316L Stainless-Steel guide rails and top bracket and a Stainless-Steel lifting chain. All brackets shall be bolted to the structure with Stainless Steel bolt sets.

###### **4.2.4. New Pump Sets – Self-priming Sewage Pumps**

The Contractor shall allow for the supply and installation of new, complete pump set(s). The pumps shall be of the centrifugal, single stage, self-priming pump equipped with a channel impeller, suitable to pump raw sewage. It shall be supplied, complete with a belt drive (including pulleys, belt and coupling guard), propriety air-release valve for priming purposes, mounted on a base plate that would house pump and electrical motor.

All pumps supplied shall be from a single manufacturer.

###### **4.2.5. New Pump Sets – End-Suction Water (Raw / Potable) Pumps**

The Contractor shall allow for the supply and installation of new, complete pump set(s). The pumps shall be of the centrifugal, single stage, end-suction type pump, equipped with a bronze impeller, suitable to pump raw or potable water. It shall be supplied, complete

with a belt drive (including pulleys, belt and coupling guard), propriety air-release valve for priming purposes, mounted on a base plate that would house pump and electrical motor.

All pumps supplied shall be from a single manufacturer.

4.2.6. New Electrical Motor – 400V 3 Phase TEFC

Electrical motors for drywell installations shall be of the TEFC type, rated for 400V, 3 phase electrical supply. Where the electrical motors are used in conjunction with VFCs, these motors shall be rated as such with insulated bearings and class H insulation. The rated power of the electrical motors shall be sized to be at least 15% higher than the shaft power required to operate at the design duty point with the impellers trimmed.

All motors supplied shall be from a single manufacturer.

4.2.7. Factory Acceptance Testing of Equipment

Where the GMR requires new pumping equipment to be factory tested to provide proof of the performance, the testing shall be done in line with the Standard Specification, and shall either be Witness Testing with a GMR or Bench test and the report submitted to the GMR for approval.

4.2.8. Pump Characteristics Guarantee

The Contractor shall guarantee the pump characteristics as per the Mechanical Standard Specification. All pump sets that does not achieve the guaranteed characteristics shall be rejected and the Contractor shall be responsible for the corrective actions required to supply an acceptable pump set.

4.3. PIPEWORK

The Contractor shall allow for all costs involved, including but not limited to the supply of material, related design, manufacturing, testing, transport to site and installation of the purpose made pipework as indicated on the Mechanical drawing(s). The Contractor shall survey the existing structures prior to compilation of the workshop drawing to confirm structure sizes.

All pipework shall be in accordance with SANS 62, with a Heavy wall thickness, or SANS 719, with a wall thickness as per the Standard Specification, for pipework smaller and larger than DN150 respectively. Pipework shall be flanged and drilled to SANS 1123 Table 1600/3. All pipework and fittings shall be 316 Stainless Steel. All underground pipework shall be wrapped in petroleum tape, similar or equal to Denso tape.

The pipework layout shall allow for dismantling to facilitate inspection and maintenance. All pipework shall be properly supported and anchored and be designed so that all stresses caused by static and dynamic forces, including water hammer, are handled by suitable anchors to ensure no resilient forces are carried over to the pump flange connections.

All pipe supports and anchors shall be designed to handle at least 150% of the maximum flange pressure ratings. Pipe supports shall be manufactured out of 316 Stainless Steel profiles in the wet sumps and valve chambers. Where applicable, provision shall be made for proper insulation materials to prevent galvanic corrosion between the Stainless Steel and Zinc. The anchor footings shall be suitably sized to transfer the forces to the floor / wall without providing a point load. It shall have a minimum of 4 chemical anchor, high tensile Stainless Steel bolts per foot, suitably positioned and sized for the specific load rating of the anchor.

4.4. VALVES

4.4.1. Isolating Valves

For isolating valves in sewage applications, provision shall be made for the supply and installation of flanged, cast iron, resilient seated gate valves with non-rising spindles and equipped with hand. Valves shall be rated at PN16 to suit the pipework.

For isolating valves in water applications, alternative provision shall be made for the supply and installation of flanged, cast iron, double eccentric butterfly valves, equipped with a gearbox and hand-wheel. Valves shall be rated at PN16 to suit the pipework.

4.4.2. Non-return Valves

For non-return valve, provision shall be made for the supply and installation of flanged, single door, swing type valves. Valves shall be rated at PN16, with flange drilling to suit the pipework. The valves shall be equipped with a lever and counterweight.

4.4.3. Air-release Valves

For air-release valves, provision shall be made for the supply and installation of double action, air-release valve and associated equipment. The air-release valve body shall be constructed out of cast ductile iron and epoxy coated. The body design shall allow for the connection of a drainpipe. The air release valve shall be rated to seal at 0.1bar and shall be capable of functioning fully at these low pressures.

For sewage applications, the air-release valves shall be specifically designed to operate in sewage applications.

All air-release valves shall be equipped with a suitably sized and pressure rated wedge gate-type non-return valve. The air-release and gate valves shall be rated at PN16.

All air release valves shall be equipped with a drainpipe that leads to near ground level to channel any water that may be released during operation. Where air release valves are installed inside buildings, the drainpipe shall be taken to the outside of the building.

4.5. ANCILLARY EQUIPMENT

4.5.1. Nuts, Bolts, Ready-bar and Packings

The Contractor shall make provision for the supply and installation of suitable bolt sets for all flange connections, including the supply of packings. All bolt sets and ready-bar shall be 316 Stainless Steel. Bolts and ready-bar shall be treated when cut. The specific flange connection shall determine the suitable bolt size, length and number of bolts required. The Contractor shall allow for all the costs involved.

4.5.2. Pressure Gauges

The Contractor shall supply and install one pressure gauge on the common delivery pipe in accordance. It shall be waterproof, constructed from 316 Stainless Steel and suitable for raw sewage (where applicable) and shall be positioned in the valve chamber. The gauge shall be supplied with an isolating three-way valve and high pressure hosing to connect with the pipework. It shall be complete on a hot-dipped galvanised stand.

4.5.3. Lifting Equipment: Chain Block / Hoist:

The Contractor shall supply and install a suitable Chain Blocks / Hoists which shall be rated and certified for a specific Safe Working Load.

Suitably sized and rated geared trolleys shall be supplied and installed on the respective I-beam gantries at the installation.

4.6. INSTALLATION, COMMISSIONING AND TESTING

All installation work shall be done according to industry best practises and shall comply with the OEM requirements and guidelines. The Contractor shall allow for all costs involved, including Labour, Plant and Consumables, for the installation of the equipment.

The complete installation (or relevant portion) shall be commissioned, and the Contractor shall ensure the equipment is functioning and operating correctly before the GMR are called for the acceptance inspection.

The Contractor shall test the refurbished or new pump set in its installed location and normal operating conditions as specified project specification and in line with the Grade 3B

guidelines. Where the instrumentation is installed on site this instrumentation can be utilized. Where site tests are required without installed instrumentation provision shall be made for temporary pressure and flow measurement instrumentation. Typical items to be verified and tested on site do performance testing include:

- Flow measurement : l/s, m<sup>3</sup>/h
- Head/pressure measurement (shut-off and duty point) : m, bar or Pa
- Power measurement : kW
- Rotation Speed measurement : rpm

**Section 3: Specifications: Electrical, Control and Instrumentation****1. GENERAL****1.1 Introduction and Intent**

This portion of the scope relates to the electrical, control, protection and instrumentation portion of the larger main maintenance and refurbishment contract.

The tender offer pertains to the design, manufacturing and procurement, quality control, transport and rigging, installation, testing, commissioning, system optimisation, taking-over and closing-out of ad-hoc Client requests. The Contractor must liaise closely with their respective work forces/teams associated with the tender, as well as the responsible Municipal staff, to ensure smooth parallel running and or/interlinking coordination. The Contractor must allow for all costs involved in liaising with the related Municipal or Sub-Contracting parties, to convey the requirements and final expectations.

The electrical components applicable to this tender are broken down as follows:

- Motor Control Centres (MCCs) :The Client could require new MCCs to be provided in place of old, non-functional units. MCC to be priced as per detailed specifications, excluding main starter, PLC and remote monitoring components. Specifications and pricing have been broken down into:
  - Outdoor/Indoor
  - Material type
  - Number of pumps/starters
  - Prospective Fault Ratings
- Motor Starters: The Client could use these VSD and Soft Starters to replace existing and old units, or to be included in new MCCs, as required. Specifications and pricing have been broken down into expected motor sizes, at Normal Duty Ratings.
- PLCs and HMIs: The Client's preference is for MCCs to be PLC controlled in Auto, whether it be the replacement of an existing and old unit, or be included in a new MCC, as required. HMIs will only be specified at sites where the Client deems them absolutely necessary. Specifications and pricing have been broken down into I/O allocations and frame sizes, complete with all hardware and software requirements included for.
- Instrumentation: The Client's intention is to replace and purchase new units at existing sites, complete with calibration and programming of said units allowed for
- Remote Monitoring: The Client has numerous GSM Commander units installed to assist in response times for faults. The intention is to replace existing units but also provide new units in new MCCs (where requested). The Client has a separate telemetry SLA tender and those components are specifically excluded from this contract

Note:

The Client has a separate generator SLA tender and those components are specifically excluded from this contract. Other electrical ancillary components such as cabling, smaller switchgear, earthing and lighting and power are actively being managed and maintained by the Municipality and are therefore also excluded from this contract.

### 1.2 **Standard Specifications**

The Electrical, Control and Instrumentation (E,C&I) Project Specifications must be read in conjunction with the following Electrical Standard Specifications:

SSE02	LV and Control	Rev 1
SSE03	Instrumentation and Control Devices	Rev 1

The Electrical, Control and Instrumentation (EC&I) Project Specifications take precedence over the Electrical Standard Specifications, should there be contradictions. The E,C&I Specifications must also be read in conjunction with the Mechanical Project Specification and Mechanical Standard Specification(s), including all issued drawings, to ensure integration and allowance made for interfaces that may be required for pump, motors and other mechanical equipment.

### 1.3 **Legislative Compliance**

All work carried out, including design of plants and equipment supplied and installed, must fully meet and be in compliance with the requirements of the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations (2014) issued in terms of Section 43 of the Act.

Any electrical work undertaken under the contract must be by an accredited and fully qualified electrician, for the specific site application, voltage and environmental consideration. A valid, legal and original COC must be issued at the completion of work done, or as an extension of an existing one.

In addition, the latest revisions of the following statutory regulations, laws and obligations as pertaining specifically to any and all electrical work applicable to this specific project are applicable:

- The regulations of the local Supply Authority
- The regulations of the Client, being either Governmental, Municipal, Parastatal or Private
- Local fire regulations
- SANS 10400-A: 2010 – The application of the national building regulations, Part A: General principles and requirements

All references to “SABS” specifications shall be read as “SANS” in light of the recent changes by the South African Bureau of Standards. Any reference made to a standards, shall refer to the latest available revision, or sub sequent standard that replaces the referred standard. Where a SANS Standard does not exist or if not applicable, the relevant IEC or BS Standard shall be applicable.

In the event of discrepancy between any of the specifications, regulations and codes of practice, the latest SANS 10142-1 Code of Practice for Wiring of Premises shall take precedence.

Additionally, the following specifications, whether specifically mentioned, or not, within this document, shall also apply:

SANS 1091: 2012	National colour standards
SANS 10140 :2008	Identification colour marking
SANS 156:2007	Moulded case circuit breakers
SANS 60269-1:2010	Low-voltage fuses, Part 1: General
SANS 60269-4:2012	Low-voltage fuses, Part 4: Supplementary requirements for fuse-link for the protection of semiconductor devices
SANS 1507-1:2007	Electrical cables with extruded solid dielectric insulation for fixed installations (300/500V to 1900/3300V), Part 1: General
SANS 60439-1:2004	Low voltage switchgear and controlgear assemblies, Part 1: Type-tested and partially type-tested assemblies
SANS 60439-2:2006	Low voltage switchgear and controlgear assemblies, Part 2: Particular requirements for busbar trunking systems (busways)
SANS 1973-1:2007	Low voltage switchgear and controlgear assemblies, Part 1: Type-tested assemblies with stated deviation and a short-circuit withstand strength above 10kA
SANS 1973-3:2008	Low voltage switchgear and controlgear assemblies, Part 1: Safety of assemblies with a rated protective short-circuits up to and including 10kA
SANS 60947:2012	Low voltage switchgear and controlgear assemblies
SANS 1084-1/2 : 2014	Electric Motor Standards
SANS 10198:2014	Cable Trenching
SANS 1804:2007	Induction Motors
SANS 2001 (collection)	Construction works

#### 1.4 **Contract Implementation**

All contract and construction implementation requirements are set out in the general section of this document. This would relate to items such as factory and witness testing, call-out procedures, site commissioning, As-Built documentation, works-orders processes, definitions of planned and emergency work, risk identification, responsibility identification, etc.

All electrical components must comply in full to these specifications and priced accordingly in the allocated BOQs.

## 2. SITE ELECTRICAL SUPPLIES

This contract covers a wide range of water and sewerage sites, with numerous different types of bulk supplies to site. Both the George Municipality and Eskom are Supply Authorities within this larger project scope, albeit at different sites and potentially towns.

The appointed Contractor will be responsible for coordination with the respective supply authorities, working through the responsible electrical operator from the George Municipality. No bulk supply switching may be done by the operator as the bulk supply to the sites, whether it be 230V, 400V and/or a higher voltage, fall outside the scope of this contract. This contract's scope boundary, in terms of site supply, starts at the main MCC incoming CB. Note that even with the main CBs switched off, the bottom tails and cable could still be live. The responsible Supply Authority, or responsible George Municipality operator, must confirm that the site is isolated and safe to work on and the Contractor must all for all required coordination in this regard.

## 3. MOTOR CONTROL CENTRES (MCCs)

The Municipality can request the design, supply, installation, commissioning and taking-over testing of new MCCs, where required. The new MCCs must comply with the specific project specifications requirements below, as well as the detailed standard specifications.

For each new MCC requested, a detailed workshop drawing must be designed and presented to the Client, before manufacturing can commence. All site specific considerations have to be accounted for and included into the design.

Pricing must allow for all required components for a fully functional system, including transport, handling, testing and configuration for a fully operational and compliant system.

### 3.1 Pricing Breakdown

The MCC bill components have been broken down into various categories, to allow for specific and accurate pricing to be provided at tender stage. The categories are:

#### 3.1.1 Outdoor/Indoor

Two distinct site conditions occur at the existing sites, namely either a site being of the 'outdoor' type, with no building, or a site being of the 'indoor' type, with existing building and allocated space/room for the MCC. Depending on the specific site requirement, the Client will indicate what type of MCC they require.

Outdoor MCCs must further be provided with an externally mounted female 5-pin generator connection point (rated 63A or 100A, depending on motor size indicated in BOQ), on the side of the incomer panel. The unit must be minimum IP66. The incoming section must be provided with two CBs, one for the main supply, one from the generator-pin, with both supplies connected to a mechanically and electrically interlocked manual change-over switch (three position). The switch must be provided with a handle mounted on the incomer door. At no point must it be able to connect the MCC to both sources of supply.

Refer to the standard specifications for further detailed requirements of both types.

#### 3.1.2 Material Type

Two specific sheet metal material types can be requested by the Client, for outdoor applications. Generally, sheet metal must be 3CR12, with a minimum 1.8mm thickness. In specific site applications, the Client could request for the MCCs to be manufactured from SS304 material. Material verification documentation must be provided in this specific instance.

Refer standard specification for coatings, finishes and colour requirements.

### 3.1.3 Number of Pumps/Starters

For both outdoor and indoor applications, MCCs could have several different starter configurations and sizes. The BOQ has been structured to allow for two, three and four pump configurations, for a specific site and MCC. The MCC pricing and spatial design must make allowance for all requirements in this regard. Existing site constraints must be considered when doing final MCC designs/drawings.

### 3.1.4 Prospective Fault Ratings

For all the above requirements, prospective fault ratings at the MCCs dictate the short circuit rating design and construction of that specific MCC. MCCs with a prospective fault rating of higher than 10kA must comply in full to SANS 1973-1 and be of the 'typed-tested' type. MCCs equal to or less than 10kA must comply with SANS 1973-3. Note that even these 1973-3 compliant MCCs must be of compartmentalised type.

Allowance has been made for 6kA, 10kA, 12kA and 17kA MCCs. The Client will confirm which fault rating is required, per specific site.

## 3.2 Overall Equipment and Construction Requirements

Regardless of the site specific components as listed above, MCCs must be supplied complete with all required equipment and switchgear for a fully functional unit. As a minimum, MCCs must be supplied with the following requirements met:

### 3.2.1 General Configuration

MCCs must be of the compartmentalised-type, with individual door-interlock handles, as per the standard specifications. All necessary glanding, termination and wireway compartments must be provided for. Space provision must be made for respective metering units, telemetry outstations, instrumentation displays and GSM units, where specifically indicated by the Client.

All MCCs must be floor-standing, with the necessary plinths and stands (HDG) provided for in the MCC rates.

All handles, hinges, locks, stays and rods, whether internal or external door compartments, must be manufactured from SS304.

Protected strobe lights must be provided, either MCC or building mounted, depending on the application.

### 3.2.2 Incomer

Every MCC's incoming section must be provided with a networked power meter, with display door-mounted. Further spatial provision, and see-through window, must be allowed for under this contract, for a billing class meter (of the Landis&Gyr and/or similar type) and CTs (all supplied and installed by the Municipality's electrical department). Refer standard specifications for further detailed requirements.

### 3.2.3 Equipment Starters

Each equipment starter panel must be provided with the generally specified indication lights, selector switches, push-buttons, run-hour meters, ammeters and/or digital displays. All switchgear and protection equipment required must be allowed for and wired to operate

in manual (with the PLC off and/or faulty). Pricing to exclude the specific starter and associated specified components.

#### 3.2.4 Control Section

Each MCC must be provided with a dedicated control compartment, responsible for the common control and monitoring of the said specific MCC and associated equipment. As the Municipality has a preference for PLC control, all associated equipment must be installed within this section. Space allocation must be made to allow for any heat dissipation associated with the relevantly sized UPS. Where specified, a HMI must be door-mounted, else standard displays, indication lights, switched and push-buttons must be provided, in compliance to the general control intent from that specific site.

#### 3.2.5 Remote Monitoring

The Client will indicate whether the specific site will be equipped with a new telemetry outstation or new GSM Commander. If a telemetry outstation is to be provided, all power and monitoring supplies and cables must be allowed for at this dedicated compartment. PLC communication must be via Modbus and/or similar protocol. If a GSM Commander is requested, then it and associated equipment must be installed against a dedicated backplane within the compartment.

### 3.3 Control Philosophies

Each site's control and equipment requirements differ slightly, with final details to be confirmed by the Client. The following control guidelines will allow for uniformity of design and provide a general understanding of Client expectations.

#### 3.3.1 Sewage Pump Stations

Generally, whether it be submersible, immersible or self-priming type pumps, sewage pump stations are controlled in the same manner, by means of local suction control.

##### 3.3.1.1 Manual Mode

Each pump must be controlled via a start and stop pushbutton on the MCC and local control stations from the field (if applicable).

Note that a pump-down facility must be provided (from MCC and field control stations) that when the low level alarm condition is present, an operator can press the pushbutton and only while holding it down must the pump continue pumping. As soon as the button is released then the pump must stop.

##### 3.3.1.2 Automatic Mode

The duty pump(s) must normally start and stop on level, provided by means of an ultrasonic level sensor mounted within the sump. The start and stop levels must be chosen to keep the sump as empty as possible, with the optimum levels to be confirmed as part of the commissioning and optimisation process (provisionally 30%-60%).

When the sump level has reached a start level, a LEVEL START DEMAND indication light must switch on and the duty pump(s) must run until the sump level has reached a stop level, at which point the indication light must switch off and the running pump(s) must stop.

Note that the ultrasonic controller must be programmed for a two-relay start and stop control functionality (ie relay 1 (stop) and relay 2 (start)) per mode, with all signals

incorporated into the pumps' control logic. The controller must be mounted against the backplane within the common control section, with see-through window provided.

In the instances where there are 3 or 4 pumps at a specific site, the amount of duty pumps will be determined in conjunction with the system hydraulics. Provision must be made that all pumps can however run together, in the instance where the level has reached a high point.

### 3.3.1.3 Emergency Control

The suction sump must be fitted with two float level switches for high and low level alarm protection and control, both higher and lower than the normal control start and stop levels.

The high level float, when activated, must start the duty pump(s) and the pump must keep pumping until the low level float position has been reached, at which point the pump(s) must stop.

Only after this position can normal control be re-instated, but the indication lights must remain on until manually reset.

If another high level is reached before normal control is re-instated, then the emergency cycle must start again as per above control and continue functioning between the high and low level alarms.

An indication light labelled HIGH LEVEL must switch on once the float level switch passes its tilting position, with a LOW LEVEL indication light to switch on once the low level float starts to hang. The indication lights must be manually reset, but only once the condition has fallen away.

Note the pump-down requirements as set out in manual mode.

### 3.3.2 Water Lift Pump Stations

Generally, with a water lift pump station, dry-well type pumps pump water from a local on-site suction reservoir to a remote reservoir or holding tank.

#### 3.3.2.1 Manual Mode

Each pump must be controlled via a start and stop pushbutton on the MCC and local control stations from the field.

#### 3.3.2.2 Automatic Mode

##### **Primary Level Control**

The duty pump(s) must normally start and stop on the remote reservoir/tank level, provided by means of an ultrasonic level sensor and relayed via telemetry. The start and stop levels must be chosen to keep the reservoir as full as possible, with the optimum levels to be confirmed as part of the commissioning and optimisation process (provisionally 70%-90%).

When the reservoir level has reached a start level, a LEVEL START DEMAND indication light must switch on and the duty pump(s) must run until the reservoir level has reached a stop level, at which point the indication light must switch off and the running pump must stop.

### Secondary Suction Control

Secondary suction control must be provided from the local on-site reservoir. When the water level in the suction reservoir has dropped to a low level, the duty pumps must stop and only restart (if required) once the water level has risen above a high (enable) level.

The level signal must be derived from a new ultrasonic level sensor to be installed in the suction reservoir, as per section 6 below (two-relay control, so the control can be replaced with float level switches if needed).

A SUCTION ENABLE indication light must switch off when the low level has been reached and only switch on once the reset level is reached.

#### NOTE:

- When both the LEVEL START DEMAND and SUCTION ENABLE conditions are present, a START DUTY PUMP indication light must switch on and only switch off if one or both of these conditions are no longer active.
- All switching (control and protection) conditions must be delayed with adjustable timers to prevent unnecessary starting during transient conditions.

#### 3.3.2.3 Emergency Control

The suction sump must be fitted with two float level switches for high and low level alarm protection and control, both higher and lower than the normal enable level. The low level float must protect the pumps from running dry, with a LOW LEVEL indication light to switch on once the low level float starts to hang.

The remote reservoir's high level float, when activated, must stop the duty pump(s) and an indication light labelled HIGH LEVEL must switch on once the float level switch passes its tilting position.

#### 3.3.3 Water Booster Pump Stations

Generally, a water booster operates in the same manner as a lift pump station, except that the primary control is not level based from a remote reservoir but locally pressure and flow controlled. The duty pump(s) would generally PID around a set system/network pressure, with suction control as per lift pumping system.

#### 3.3.4 General Control Requirements

Applicable to all pumping applications.

The specific equipment can either be run in manual or automatic mode, with automatic mode via process specific instrumentation feedback, or via remote telemetry input.

Each equipment motor panel must be equipped with a three-position selector switch labelled Manual/Off/Auto, with the control as set-out below. A running piece of equipment must stop when switched to off and no equipment can be initiated to run with the selector switch in the off position.

##### 3.3.4.1 Manual Mode

Each piece of equipment must be started and stopped via a start and stop pushbutton on the MCC, as well as from the local control station in close proximity to the respective unit in the field (if specified).

Note that even in manual mode, the respective hard-wired pump and motor protections must remain active to protect said equipment.

### 3.3.4.2 Automatic Mode

#### 3.3.4.2.1 Primary Control

Each plant specific component must primarily be controlled by either a specific instrument function, or a combination thereof, whether it be local or via remote telemetry. An indication light must be provided on the common control panel, illuminating and indicating the process specific parameter controlling that equipment.

Setpoints must be adjustable and optimised as part of the Contractor's commissioning process, with adjustable timers provided for any transient conditions.

#### 3.3.4.2.2 Secondary Control

Secondary control must be introduced where more than one parameter must be measured. All requirements as per primary control apply.

#### 3.3.4.2.3 Duty Selection

Equipment must be provided with a common selector switch labelled Alt/P1/P2/P3 etc (depending on the amount of units per plant section), door-mounted in the common control section. With the switch in Alt mode, the equipment must alternate their duty cycle after every 24 hours and/or per pumping cycle.

Should a running unit trip, be switched off (CB and selector switch) or fail to start, then the standby unit must takeover and start immediately. Should the tripped unit be fixed/reset, then it must not start up again and act as the standby unit.

In P1, P2, P3 (etc.), that selected unit must start first. However, even with the selector switch in that position, the standby functionality as detailed above must still be applicable.

#### 3.3.4.2.4 SCADA Control

SCADA control is applicable in auto mode only, provided the secondary control conditions are met, if so specified for specific site requirements.

Provision must be made for SCADA manual input and control only.

Whenever SCADA CONTROL is initiated, then a BLUE indication light must come on at the MCC, labelled REMOTE SCADA CONTROL ON. Note that the status of the duty equipment must be maintained once SCADA CONTROL has been initiated, so a running unit must keep running until stopped by the SCADA system, and a stopped unit must not start immediately until the SCADA system starts it. When SCADA CONTROL is switched off, normal control must be re-initiated from the PLC / MCC.

### 3.3.4.3 Emergency Control

Emergency control must be provided for all applicable plant areas, to act as a backup in case of normal control failure, incorrect parameters or excessive plant deviation. Emergency control could include:

#### **Delivery High Level**

Float level switches in demand tanks / sumps to prevent overflows.

**Suction Low Level**

Protection in suction tanks / sumps to prevent equipment running dry.

**Delivery High Pressure**

To be provided per common pumping system, to protect line pressures from failure (coordinated with individual pump pressures to prevent system nuisance tripping).

**High Flow**

Protection from electromagnetic flow meter, against expected duty point for specific pumping application.

**3.3.5 Protections**

All equipment must be protected, in all control modes, by means of the protective devices described below. At the occurrence of a fault, the motor must STOP and a FAULT indication light must energize.

Each protective device must be accompanied with a manual reset capability, either inherently built-in, or via a separate reset door-mounted push-button. No tripped equipment may start running until a manual reset has been initiated, unless otherwise specifically specified.

- Comprehensive starter protection by means of the VFC / Soft Starter (or Aux Overload with DOL Starters)
- Pump no-flow protection by means of the common inline electromagnetic flow meter. Individual pump protection must be provided, with the standby control functionality remaining in effect, or
- No-flow protection by means of limit switch on non-return valve's counter-weight arm
- Pump high pressure protection by means of a pressure switch
- Over-torque protection
- Overheat in motor (refer mechanical specification for specifics)
- Seal-fail for submersible applications
- Earth leakage for submersible applications, or areas where possible flooding can occur

Should the equipment offered, for warranty or other purposes, require different or additional protection, then this protection, along with mechanism, indication lights, control cables and control functionality updates must be provided complete as part of the tender offer and no additional claims in this regard will be entertained.

**3.3.6 Alarm and Status Indication**

Each item monitored must be provided with the relevant indication as detailed below:

- a) Equipment Panel

- RUN
- STARTER TRIP
- NO-FLOW
- HIGH PRESSURE
- LOW LEVEL
- E-STOP
- Etc, as per specific unit protection requirements

b) Common Control Panel (per system)

- START DEMAND
- SUCTION ENABLE
- START DUTY PUMP
- HIGH LEVEL
- SYSTEM DELIVERY HIGH PRESSURE
- SCADA CONTROL ON
- Etc, as per common system protection requirements

c) Common Control HMI (if required)

- ALL DISCRETE PUMP AND SYSTEM STATUS SIGNALS (AS ABOVE)
- LEVEL DISPLAYS
- PUMP/SYSTEM PRESSURE
- PUMP FLOW
- INDIVIDUAL PUMP and MOTOR WINDING and BEARING TEMPERATURES
- ANALYTICAL DATA
- TRENDS
- Etc

4. **MOTOR STARTERS**

The Client will indicate what type of starter they prefer for a specific application, with starters to be priced to include for all required ancillary equipment, setup and installation. The same manufacturer must be offered for both starter types. The Client requires a reputable and established manufacturer's equipment, in compliance to the requirements below, as well as the standard specifications.

Both starter types must be provided with networked communication (Modbus and/or similar), connected to the respective PLC.

Starters must be priced to be supplied and installed, as per Municipal request, complete with all transport and handling implications allowed for.

**4.1 Soft Starters**

Refer standard specifications for detailed requirements regarding soft starter technical compliance.

Soft starters have been broken down into two distinct sections in the BOQ. Smaller units do not require power factor correction (PFC), with larger units requiring individual starter power factor correction as part of the tender price. The PFC component must allow for rectification from an estimated 0.85 to at least 0.97 lagging, with contactor, fuse and capacitor to be housed within the starter compartment. At no point may the system become leading. The capacitor must be installed behind an internal barrier and must be rated at 525V. Refer further PFC requirements in the standard specifications, specifically in relation to starter ramping coordination.

Soft starter displays/keypads must be mounted on the unit, within the MCC, with a see-through window provided on the MCC door.

**4.2 Variable Frequency Converters (VFCs, or VSDs)**

Refer standard specifications for detailed requirements regarding VFC technical compliance. VFCs must comply fully with IEEE519, specifically in relation to Harmonic Distortion (voltage and current) specifications.

VFC heat dissipation design must be carefully planned with the MCC manufacturer, in line with the manufacturer recommendations. Provisions must be made in the MCCs for a split-mounting, where the VFC heat sink is mounted in a rear section, with fans expelling the heat to the outside of the MCC. Removable intake filters must be provided throughout.

The VFCs must be priced complete with rapid-fuses, or suitably rated main CB, depending on the manufacturer requirement.

VFC displays/keypads must be mounted on the unit, within the MCC, with a see-through window provided on the MCC door.

Due to the inherent harmonic noise generated by VFCs, careful consideration must be given to the screening and positioning of instrumentation cabling and circuiting, in relation to the VFCs.

**5. PLCs AND HMIs**

The Client requires their plants, sites and pump stations to be controlled by means of PLCs, in automatic mode. However, note that should the PLC fail, all equipment must be able to be started in manual mode, from the respective starter panels. Accordingly, all protections must be hard-wired and operational when running the respective equipment in manual.

Pricing must allow for all supply, install, programming and commissioning of the respective units, at specific application. All transport and handling costs must be allowed for.

**5.1 PLCs**

The PLCs with associated equipment and UPS-type support must be mounted in a dedicated tier within the respective MCCs. A weatherproof RJ45 connection point must be door-mounted for laptop access. An inline UPS must be designed and priced as part of the PLC offering. All heating and ventilation requirements to be taken into account as part of the design process.

All terminals and connections must be provided for in the bottom, with all spare I/O modules and terminals provided for now, fully wired-through.

The PLC offered must be of the Delta and/or similar type, with networked backplane and at least 25% spare capacity in terms of hardware and software capacity. All modules and cards must be provided, as required. This includes Modbus communication with analytical controllers, analogue and digital inputs, ethernet communication with respective drives, power meters, as well as HMI.

The general intent and system configuration must be that the pumps can be run in manual, with required protections in place, should the PLC be faulty. All protections must therefore be hard-wired.

**5.2 HMIs**

Several screen sizes have been allowed for in the BOQ, with them being of the Delta and/or similar type. They must be door-mounted at the PLC tier. All licensing costs must be provided for under this contract. The HMI must be specifically suited for abrasive conditions (IP66), being fanless and stainless.

All required PLC and HMI hardware and software components, including licensing, programming and configuration costs must be included under the MCC price in the BOQ. Further provision must be made in the pricing for three iterations of the HMI layout, alarming and trending requirements with the Client.

**6. INSTRUMENTATION**

Refer standard specifications for detailed instrumentation requirements. Pricing per unit must include for suitably mounting brackets, labelling, connections as well as single suitable cable run for direct termination in either MCC or wall-mounted controller module. The unit price must further allow for the correct selection of unit per specific site, the calibration certificate as well as on-site programming and verification.

**6.1 Ultrasonic Level Sensors**

New ultrasonic level sensors for level control must be provided for:

- Level control in applicable sumps and basins, for primary control
- Measuring flumes for instantaneous and totalised flows

The controller must be housed in the MCC's common control section, behind a see-through window. Provision must be made on the applicable Industrial HMIs for display of instantaneous and totalised flows (if required).

No networked units required, with standard 4-20mA adequate. Sensors must have a minimum of 12m operational range, as a manufacturing standard.

**6.2 Electromagnetic Flow Meters**

The electromagnetic flow meters must be of the Safmag, Siemens, Endress + Hauser and/or similar type.

The specifications below are applicable to specific group applications, with each meter specifications and pricing to correlate to final tender design and offer.

Provision must be made on the applicable HMIs for display of instantaneous and totalised flows (if required). The cabling between the sensor and transmitter must be supplied and priced as part of the tender offering, as the unit as a whole must be calibrated with said distance taken into account. Earthing rings must be provided at both flanged ends, bonded to the existing earthing system.

#### 6.2.1 Sewage Pumps:

- Sensor Diameter: To suit new/existing pipework
- Double-Flanged Type: To suit pipework (including class type)
- Lining: Suitable for raw sewage water
- Flow speed range: 0.01 – 10m/s
- Flow rate range: To suit number of duty pumps, +15%
- Accuracy: 0.5% or less
- Transmitter: Remote, wall-mounted (MCC-mounted behind see-through window in outdoor applications)
- Power Supply: 24VDC (preferably)
- Output: 4-20mA proportional to flow, frequency/pulse outputs (all forward and reverse) and Modbus to PLC

#### 6.2.2 Water Pumps:

- Sensor Diameter: To suit new/existing pipework
- Double-Flanged Type: To suit pipework (including class type)
- Lining: Suitable for potable water
- Flow speed range: 0.01 – 10m/s
- Flow rate range: To suit number of duty pumps, +15%
- Accuracy: 0.5% or less
- Transmitter: Remote, wall-mounted
- Power Supply: 24VDC (preferably)
- Output: 4-20mA proportional to flow, frequency/pulse outputs (all forward and reverse) and Modbus to PLC

**6.3 Pressure Sensors**

Provision must be made on common delivery pipework, where specified, for the installation of a pressure sensor. The manufacturer must be the same as the flow meters'.

No networked units required, with standard 4-20mA adequate.

The specifications below are applicable to specific group applications, with each sensor specifications and pricing to correlate to final tender design and offer.

The sensor must further comply with the following requirements:

- Sensor Diameter: Socket-installed (size to suite equipment)
- Measuring range: 0bar – Max shut-off for to suit number of duty pumps
- Sensor: Capacitive
- Membrane: Ceramic
- Accuracy: 0.5% or less
- Transmitter: Remote, enclosure-mounted
- Power Supply: 24VDC (preferably)
- Output: 4-20mA proportional to system pressure

**6.4 Pressure Switches**

Provision must be made on the delivery pipework for the installation of a pressure switch per pump set, where specified. Pressure switches must be selected with a range greater than the specific equipment's shut-off pressure. Where negative pressure is possible, the correct unit must be provided.

**7. REMOTE MONITORING**

The Municipality currently has numerous sites equipped with SMS and GSM alarm and monitoring systems, that provide certain change of state signals through to the relevant Municipal personnel. Provision must be made under this contract for the supply, installation, configuration and testing of new units, as well as the replacement of existing units. Pricing in the BOQs must be provided for a complete function package, per unit types indicated.

Note that the Municipality will provide the necessary SIM-cards, as and when required.

**7.1 Specific Supplier**

The Municipality currently utilizes the GSM Commander units, as supplied by Polygon Technologies. For uniformity, programming, spares and technical support capability, it is preferred that the units to be supplied under this contract be the same as per existing sites.

**7.2 General Configuration**

All applicable equipment must be housed with a lockable, steel, IP65 enclosure, with suitable and removable baseplate, door trigger switch and adequate glands at the bottom. As a minimum, the configuration must include:

- Metal switching power supply module, with transformer, complete with lockable mains isolation and earthing terminals, as well as 7Ah battery and appropriate charge controller/protector. Battery must not be mounted in front of any other equipment and enclosure sizing must accommodate this
- Applicable GSM commander selected (Micro, Lite, Standard, PLC or Professional), complete with externally mounted 5dBi (minimum) antenna
- Inline surge protection, with CB, and harmonic/EMC filter
- Any extension modules requested by the Municipality
- Necessary terminals, inter-wiring, connections, labelling, ancillaries, brackets, etc.
- Spare DIN-rail for possible future expansion

Note that space allocation must be priced per selected GSM Commander unit type.

### 7.3 **New Installations**

In the instance where new sites and/or MCCs are identified under this contract, the complete GSM unit, with associated equipment, must be installed within a dedicated section of the applicable MCC. Adequate space and terminals will be allowed for in the MCC, with the complete module to be installed by the Contractor, at the MCC supplier.

### 7.4 **Existing Installation**

Several sites have existing units that will need to be replaced. Most of these are wall-mounted units, adjacent to the existing MCCs. Provision must be made under this contract for the removal of the existing unit, and install of new unit at the same location. All ancillaries, connections and enclosures must be allowed for, for a complete installation.

**Section 4: Specifications: Mechanical and Electrical Standard Specifications**

The following standard specification are applicable on the project.

**List of Standard Specifications:**

SSE02	LV and Control	Rev 1
SSE03	Instrumentation and Control Devices	Rev 1
MSS01	Pumping Equipment	Rev 03
MSS02	Pipework and Valves	Rev03
MSS03	Materials and Coatings	Rev 01
MSS04	Ancillary Equipment	Rev 03

**The standard specifications are externally attached.**

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-HOC  
CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**PPPFA REQUIREMENTS (Part C4)**

1. It will be required from all successful bidders to register on the Western Cape Supplier Database (WCSD).
2. Where the project scope and time allowance allow for technical training of in-house personnel.
3. Use of local semi- & unskilled labour (ward based) where work is done.
4. Contractors to make use of local sub-contractors (ward based).

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

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## **HEALTH AND SAFETY SPECIFICATIONS (Part C5)**

The successful bidders will have to submit a Generic Health and Safety Plan to George Municipality's appointed Health and Safety Provider for approval thereof.

As and when required, depending on the nature of the Works, the Client may request a work package or project specific Health and Safety Plan.

The following documentation / information are provided in additional:

- Provisional Risk Register
- COVID19 Directive

**Risk Register:**

The following risk registers are provided as an indication of possible items posing a risk and hazard to the personnel on site during installation and commissioning. The Service Provider must identify risks and add to the list as they see fit.

Item	Hazard Description	Applicable (Yes, No, N/A)	Hazard Rating  (Low, Medium, High)	Comment / Recommendation
1.	Are there any specific client H&S requirements for the work?	Yes	High	Personnel protective equipment shall always be worn on site, minimum of safety boots and high visibility jacket.
2.	Have site archaeological issues been identified and evaluated (possible historical importance)	N/A	N/A	N/A
3.	Has a geotechnical survey been carried out, and if so do the results indicate hazards which required control measures?	N/A	N/A	N/A
4.	Is the site adjacent to or over public transport (railways, taxi ranks, bus stops, etc)	Yes	Medium	Work will be carried out in the vicinity of moving vehicles and machinery which will be in operation. Necessary barricading and road signs to be allowed for
5.	Is the site adjacent to or over water (e.g. rivers, dams, sea, channels)?	Yes	Low	Contractor to be aware of danger presented and provide adequate rescue equipment as required.
6.	Is the site adjacent to, over or under any services or drains etc (e.g. medium / high voltage cables, municipal sewer lines, etc)?	Yes	High	Special care must be taken not to damage existing medium / high voltage cables and existing underground pipe services.

Item	Hazard Description	Applicable (Yes, No, N/A)	Hazard Rating  (Low, Medium, High)	Comment / Recommendation
7.	Is the site adjacent to, over or under any public buildings such as schools or hospitals?	Yes	High	Work to be carried out in residential area in George and surrounding towns.
8.	Are there any other local hazards such as overhead power cables	Yes	High	Existing 11kV line exists in areas where work to be done.
9.	Will the ground contours present any construction or access problems	Yes	Low	Sloped ground areas are present at the majority of sites
10.	Is there any asbestos removal involved?	No	N/A	N/A
11.	Will excavation be close to live electrical cables or pressure pipes?	Yes	High	Pressure pipes and live electrical cables exists on site and must be taken note of.
12.	Will any excavation work take place?	Yes	Medium	Where excavations and ground works are to be done, adequate allowance shall be made for protection of excavations to prevent injury to humans or animals
13.	Will any work be carried out close to live electrical apparatus?	Yes	High	Due care shall always be exercised to ensure safety of workers. Working areas shall be physically isolated and demarcated from any live equipment
14.	Is there confined spaces or tank entry work involved?	Yes	High	Entry into existing sewage sumps to be undertaken.
15.	Will any steel erection work be taking place?	No	N/A	N/A

Item	Hazard Description	Applicable (Yes, No, N/A)	Hazard Rating (Low, Medium, High)	Comment / Recommendation
16.	Will tower cranes be used, or heavy lifting operations be taking place?	No	N/A	N/A
17.	Will mobile work platforms, cradles or abseiling be necessary?	No	N/A	N/A
18.	Is the access to the site adequate for vehicles and pedestrians? Are there any special arrangements and / or requirements?	Yes	Low	Some areas may only be accessible to pedestrians
19.	Will the public have access to the site?	Yes	High	Sites are located in side residential development and areas and the required fencing and signage must be erected.
20.	Have arrangements been made or co-ordinated for temporary electrical supply?	No	Low	For some sites the Service Provider to arrange temporary power to operate tools
21.	Have site lighting needs been identified for all stages of the work?	No	High	Emergency work may be required during the night. The Service Provider to provide suitable lighting
22.	Will any accommodation / office units be located inside existing structure?	No	N/A	Contractor's existing permanent facilities to be used.

Item	Hazard Description	Applicable (Yes, No, N/A)	Hazard Rating  (Low, Medium, High)	Comment / Recommendation
23.	Have arrangements been made or co-ordinated for temporary supplies such as water and sewage disposal?	No	N/A	Contractor must arrange for his own services.
24.	Are there any "hot works" to be undertaken?	Yes	High	Work is to be carried out on electrical equipment, and due care shall be exercised to ensure isolation of the supply when necessary.
25.	Are electrical items to be installed?	Yes	High	Work is to be carried out on electrical equipment, and due care shall be exercised to ensure isolation of the supply when necessary.
26.	Is the project a fire risk	Yes	Medium	Work is to be carried out on electrical equipment, and due care shall be exercised to ensure isolation of the supply when necessary to prevent electrical fires. Contractor to have suitable fire extinguishers on site.
27.	Have all environmental issues been evaluated and controlled?	Yes	Low	Contractor to take adequate steps to prevent sewage spills at pump stations during periods of work.
28.	Are there any specific fall protection hazards not already assessed?	Yes	High	Work will be undertaken at raised levels, on slippery surfaces and over open sumps.

Item	Hazard Description	Applicable (Yes, No, N/A)	Hazard Rating  (Low, Medium, High)	Comment / Recommendation
29.	Are there any additional hazards which have been identified as being site specific and which are not covered by the foregoing? If Yes, note here:	Yes	High	<p>Some sites lie in semi-rural areas and there is a possibility of potentially dangerous animals such as snakes being present.</p> <p>Hazardous conditions exist at / in the sewage pump stations and pump sumps, namely:</p> <ul style="list-style-type: none"> <li>• Poisonous and explosive sewage gases</li> <li>• Lack of oxygen</li> <li>• Contaminated surfaces, fluids and general area with amongst other, life threatening and disease carrying germs</li> </ul> <p>The Contractor will need to allow as required:</p> <ul style="list-style-type: none"> <li>• Forced ventilation in the sump</li> <li>• Protective clothing, first aid kit, disinfections, etc.</li> </ul> <p>Immunisations against sewage borne diseases required for personnel working in close contact with raw sewage and contaminated equipment / areas</p>
30.	Are there any specific medical requirements necessary	Yes	High	<p>Medical fitness to work, certificates signed off by a qualified Occupational Medical Practitioner must be provided for all staff / labourers to be employed on the project.</p> <p>Immunisations against sewage borne diseases required for personnel working in close contact with raw sewage and contaminated equipment / areas</p>

Covid19 Directive

**COVID-19 HEALTH AND SAFETY SPECIFICATION  
ADDENDUM**

**APPLYING THE COVID-19 DIRECTIVE ON HEALTH  
AND SAFETY IN THE WORKPLACE ISSUED BY THE  
MINISTER IN TERMS OF REGULATION 10(8) OF THE  
NATIONAL DISASTER REGULATIONS**

**APPROVALS**

DATE	NAME & SURNAME	DESIGNATION	SIGNATURE

**REVISION RECORD**

DATE	REV NO	DESCRIPTION	REVISED BY

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## 1. SCOPE

This addendum has been compiled in line with the Directive provided by the Department of Employment and Labour relating to occupational health & safety measures which must be taken in workplaces. This follows the recent Regulations promulgated under the National Disaster Management Act, to reduce and eliminate the escalation of COVID-19 infections in South Africa.

## 2. DEFINITIONS

**Definitions (as per the Directive by the Minister of Employment and Labour in terms of Regulation 10 (8) of the Regulations issued by the Minister of Cooperative Governance and Traditional Affairs in terms of Section 27 (2) of the Disaster Management Act, 2002 (Act no. 57 of 2002)) applicable to this Addendum:**

**BCEA** means the Basic Conditions of Employment Act, 1997 (Act No. 75 of 1997);

**COVID-19** means Coronavirus Disease 2019;

**Disaster Management Act** means the Disaster Management Act, 2002 (Act No. 57 of 2002);

**OHSA** means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);

**PPE** means personal protective equipment;

**Virus** means the SARS-CoV-2 virus, COVID-19 virus, Corona virus;

**Worker** means any person who works in an employer's workplace including an employee of the employer or contractor, a self-employed person or volunteer;

**Workplace** means any premises or place where a person performs work.

## 3. RECOMMENCEMENT OF CONSTRUCTION WORK

- The planned date the construction site will open and the hours it will be open.
- A timetable setting out the phased return of employees to enable appropriate measures to be taken to avoid and reduce the spread of the virus.

## 4. DEMOGRAPHICS

Register available for all employees with the following information included:

- Age of Employees.
- Health status – (High risk immunocompromised).
- Socio economic status/Unskilled Labour.
- Travel arrangements.
- Accommodation cross borders/towns/cities/on site/employer provided.
- List of employees who can work from home, employees who are 60 years or older and those with comorbidities.

**5. APPOINTMENTS**

Proof of Appointment of a COVID-19 compliance officer responsible for the duties as outlined in regulation 16(6) of the said Notice COVID-19 Occupational Health and Safety Measures in Workplaces COVID-19 (C19 OHS), 2020.

**6. RISK ASSESSMENT**

Revise and update the Baseline Risk Assessment providing a specific focus on COVID-19 virus and to implement the measures required to eliminate or reduce the risk of the spread of the COVID-19 virus. The contractor is to compile a list of all high contact and non-avoidable activities, hazards and mitigation measures related to activities shall be addressed in the Covid-19 risk assessment.

The contractor is to take note of the following relevant risks and hazards expected on return to work:

- Demographics High / Very High
- Vulnerable employees High
- Travel High / Very High
- Access Control High / Very High
- Screening High / Very High
- Personal Hygiene Very High
- PPE High / Very High
- Ablution facilities, eating areas and common areas High / Very High
- Accommodation High / Very high
- Inclement weather, employees seeking shelter High
- HCS – Disinfectants and Sanitizers Medium
- Sharing of tools, equipment, small plant, driven machinery etc. High
- Waste Management High / Very High
- Emergency preparedness, COVID-19 Response Plan High / Very High
- Returning to work after quarantine High / Very High

**7. ACCESS CONTROL AND SCREENING**

- Security Access Controls implemented and register for all entries and exits from site.
- Security to enforce queue control at access points to ensure each person is standing 1.5m apart.
- Breathalysers are not to be used, unless disposable.
- Hand sanitizer is to be placed at access points and every person is to sanitize their hands-on entry.

- All persons are to be supplied with a face mask on entry, any person who refuses to wear a face mask is to be denied entry.
- All workers to be screened, at the time that they report for work, to ascertain whether they have any of the observable symptoms associated with COVID-19, namely fever, cough, sore throat, redness of eyes or shortness of breath (or difficulty in breathing).
- Temperatures of each person are to be recorded daily, using a non-touch infrared thermometer.
- All persons are required to complete a questionnaire before returning to work after the lockdown:
  - ✓ Have they been in contact with someone who has confirmed to be infected with corona virus?
  - ✓ Are they experiencing flu-like symptoms? Fever, cough, sore throat, breathlessness, body aches, change in taste or smell.
- Safe working procedure identifying potentially infected employees, sub-contractors, visitors and suppliers, the management of exposure to COVID-19 and a response plan.
  - ✓ If an initial temperature reading is above 37.5°C, the employee is to be sent to an isolated area away from the other employees, until a second reading can be taken after 15 minutes. The employee is not to interact with any persons on site until the 2<sup>nd</sup> reading has been taken. If the reading is normal, the employee may apply hand sanitizer and book on duty. If the reading remains above 37.5°C, the Employer is to call the NICD COVID-19 Hotline 0800 029 999 for further assistance and the employee is to remain in the isolated area.
  - ✓ If a worker is diagnosed with COVID-19 an Employer must inform the Department of Employment and Labour, investigate the cause of infection, implement controls and update the risk assessment.
  - ✓ The employer is obligated to assist the Department of Health with administrative support and assist in contacting / tracing exposed persons.

## 8. TRAINING AND AWARENESS

- Conduct a COVID-19 induction programme.
- Induction training must be conducted in a well-ventilated area in smaller manageable groups. The induction should include the following but is not limited to the list:
  - ✓ The safe usage and disposal of PPE (Dust masks and gloves)
  - ✓ Emergency procedures
  - ✓ COVID-19 Awareness
  - ✓ Social distancing rules
  - ✓ Site Rules

- ✓ Use of public transport
- Employer is to notify all employees that if they are sick or have symptoms associated with COVID-19, they must not come to work and are to take paid sick leave in terms of Section 22 of BCEA. If not applicable, please refer to the Directive for further advice.
- COVID-19 safety talks to be developed for example:
  - ✓ Personal hygiene
  - ✓ Social distancing
  - ✓ Use of masks/ PPE use and limitation thereof
  - ✓ No sharing of PPE
  - ✓ Correct use of sanitizers and disinfectants
  - ✓ Cough, sneeze and spitting etiquette
  - ✓ Hand washing
  - ✓ No sharing of food items, food containers or cigarettes
  - ✓ Disposal of used PPE, which is classified as hazardous biological waste.
- Toolbox talks are to be conducted in a well-ventilated area in smaller manageable groups.
- COVID-19 related signage regarding new protocols, is to be posted in all common areas:
  - ✓ Entrances
  - ✓ Site office
  - ✓ Eating area
  - ✓ Ablutions

#### **9. SOCIAL DISTANCING WELFARE FACILITIES AND ACCOMMODATION**

- An attempt should be made to minimize the number of workers on site by applying rotation schedules or staggered work hours if possible.
- Ensure workers remain 1.5m apart.
- Stagger break times to avoid concentration of employees in common areas.
- Regular cleaning of Construction site and site office, working areas, ablation facilities, welfare facilities, eating facilities, hand washing facilities, confined spaces.
- All equipment is to be disinfected before an employee uses it and before it is used by the next as well as before storage.
- Employees are to wash their hands regularly during the day. Most notably before eating, after eating, after making use of the ablutions and when making use of any common areas (touching door handles, etc.). Hand sanitizers should be used in between handwashes, before and after

using tools and equipment and after touching their face or any other object that may be contaminated with the virus.

- Hand sanitizers are to be placed in all common areas.
- Employees are encouraged to change their clothes when entering and leaving the workplace. Work clothes are to be sealed in a plastic bag when removing from site to laundry.
- Accommodation arrangement procedure for employees.

**10. PPE**

- Issue employees a minimum of 2 cloth masks, free of charge, for the employee to wear while at work and while commuting to and from work.
- Train the employees on the use of the additional PPE.

**11. WASTE MANAGEMENT FOR COVID-19 WASTE**

- Waste management arrangements need to include the disposal of additional waste that will be generated due to the new preventative measures.
- The waste management arrangements will need to include the disposal of an added waste stream. The following is to be disposed of as hazardous biological waste / healthcare waste:
  - ✓ Gloves and masks or any other disposable products that are worn by an employee.

**12. TRAVEL**

- Transportation arrangement procedure of employees to, from and on sites.
- Employees using public transport to commute between home and work are to adhere strictly to the rules determined for such travel by the Minister of Transport.
- Induction training is to include information on how an employee can minimise their risk of contracting the virus during transit.

**13. RETURNING TO WORK AFTER QUARANTINE**

- After receiving a positive result, employee is to remain in quarantine for 14 days.
- Employee is to complete a full periodical medical issued on an Annexure 3 template and be declared fit for duty.
- Wearing of surgical masks always, while at work for a period of 21 days from the initial test.
- Implement social distancing measures as appropriate.
- Adherence to hand hygiene, respiratory hygiene, and cough etiquette.
- Continued self-monitoring for symptoms.
- Seek medical re-evaluation if respiratory symptoms recur or worse.

**14. RESOURCES & REFERENCES**

- Occupational Health and Safety Act 85 of 1993

- Regulations for Hazardous Biological Agents, 2001
- Construction Regulations, 2014
- Department of Employment and Labour: COVID-19 Occupational Health and safety measures in workplaces, (C19 OHS), 2020
- Department of Employment and Labour: COVID-19 Workplace Preparedness Guidelines
- NIOH: COVID-19 Return to Work Preparedness

## COVID-19 HEALTH AND SAFETY SPECIFICATION ADDENDUM

### ACKNOWLEDGEMENT OF RECEIPT

I, \_\_\_\_\_, project designer have received the HSE Specification Addendum and hereby state that as the designer, I have been informed of the hazards and risks pertaining to the COVID-19 virus and acknowledge that they will be mitigated as far as reasonably practicable. I will ensure to make myself familiar with my duties as per the Construction Regulations Section 6.

This document is legally binding in terms of the Construction Regulations February 2014.

Additional Comments:

X

\_\_\_\_\_  
Project Designer / Architect

X

\_\_\_\_\_  
Date

## COVID-19 HEALTH AND SAFETY SPECIFICATION ADDENDUM

### ACKNOWLEDGEMENT OF RECEIPT

I, \_\_\_\_\_, representing

\_\_\_\_\_ (Principal contractor),

have received the HSE Specification Addendum and shall ensure that as the employer we will meet all requirements and obligations herein. The hazards and risks pertaining to the COVID-19 virus are hereby acknowledged and will be mitigated as far as reasonably practicable. These hazards and risks will be conveyed to all employees and subcontractors working on the project.

This document is legally binding in terms of the Construction Regulations February 2014.

X

\_\_\_\_\_  
Principal Contractor

X

\_\_\_\_\_  
Date

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER  
AND WASTEWATER INFRASTRUCTURE: APPOINTMENT OF  
VARIOUS AD-HOC CONTRACTORS FOR A PERIOD OF THREE (3)  
YEARS**

**DRAWINGS (Part C6)**

The drawings are attached as follows:

Not Applicable.

**Annexures**

**GEORGE MUNICIPALITY**

**DIRECTORATE: CIVIL ENGINEERING SERVICES**

**TENDER NUMBER: T/ING/012/2020**

**TENDER FOR MAINTENANCE AND REFURBISHMENT OF WATER AND  
WASTEWATER INFRASTRUCTURE: APPOINTMENT OF VARIOUS AD-  
HOC CONTRACTORS FOR A PERIOD OF THREE (3) YEARS**

**ANNEXURES**

The annexures are attached as follows:

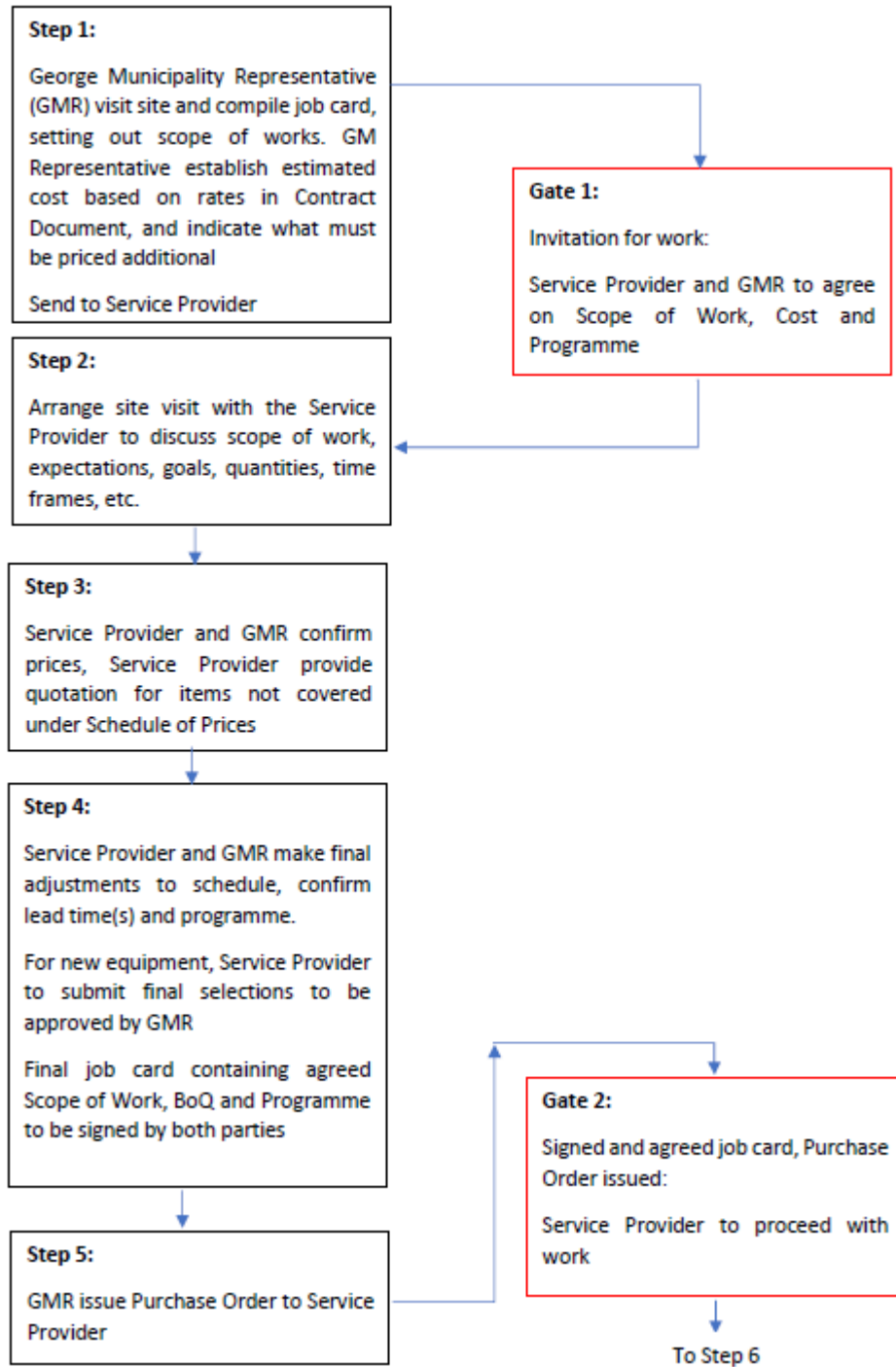
Annexure 1: Procedures Flow Diagram

Annexure 2: Existing Sewer Pump Station Schematic – Electronic Version Available  
on Request

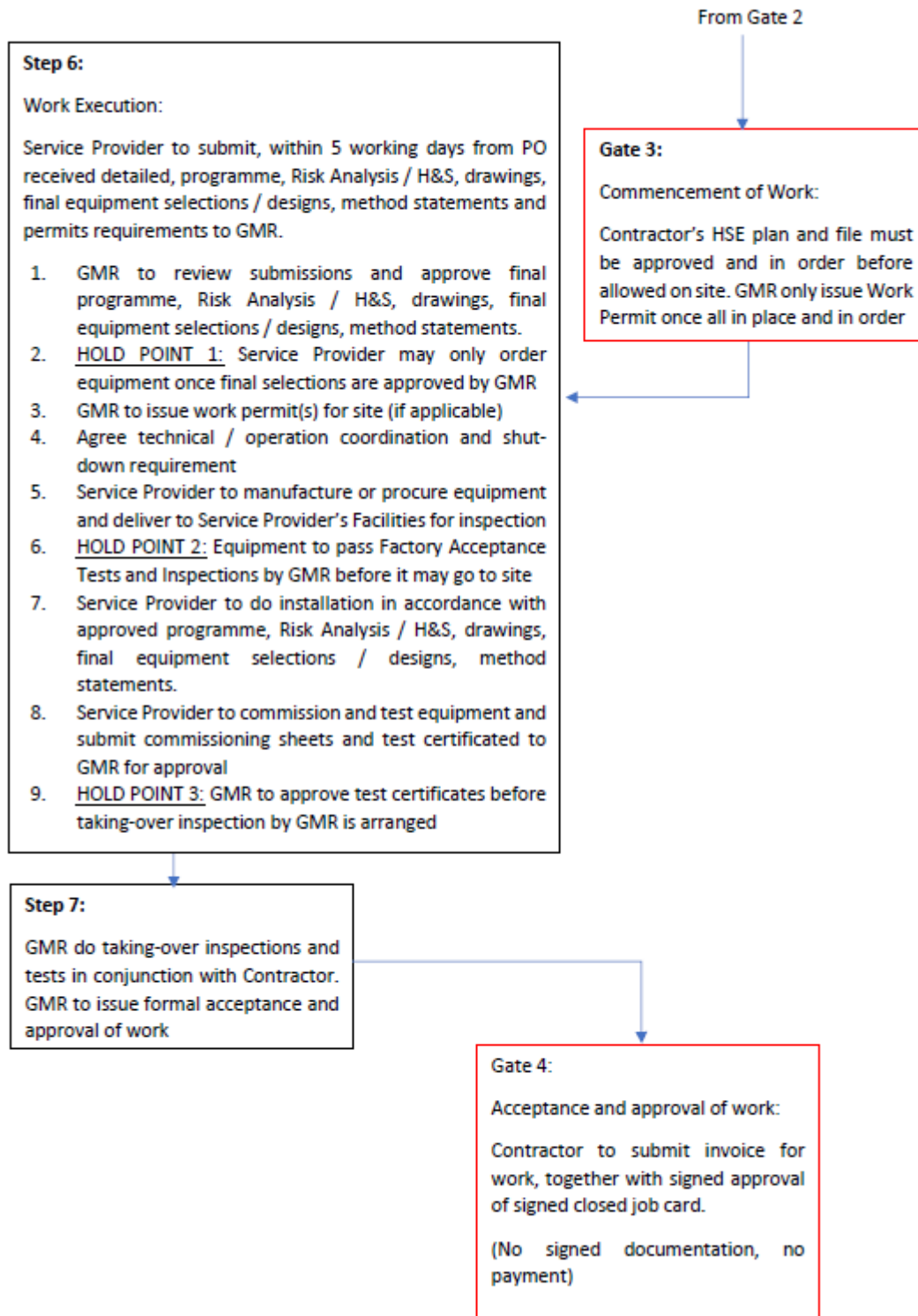
## Annexures

### ANNEXURE A : Procedures Flow Diagrams

#### 1. PROCEDURE FOR SUPPLY AND INSTALLATION OF NEW EQUIPMENT

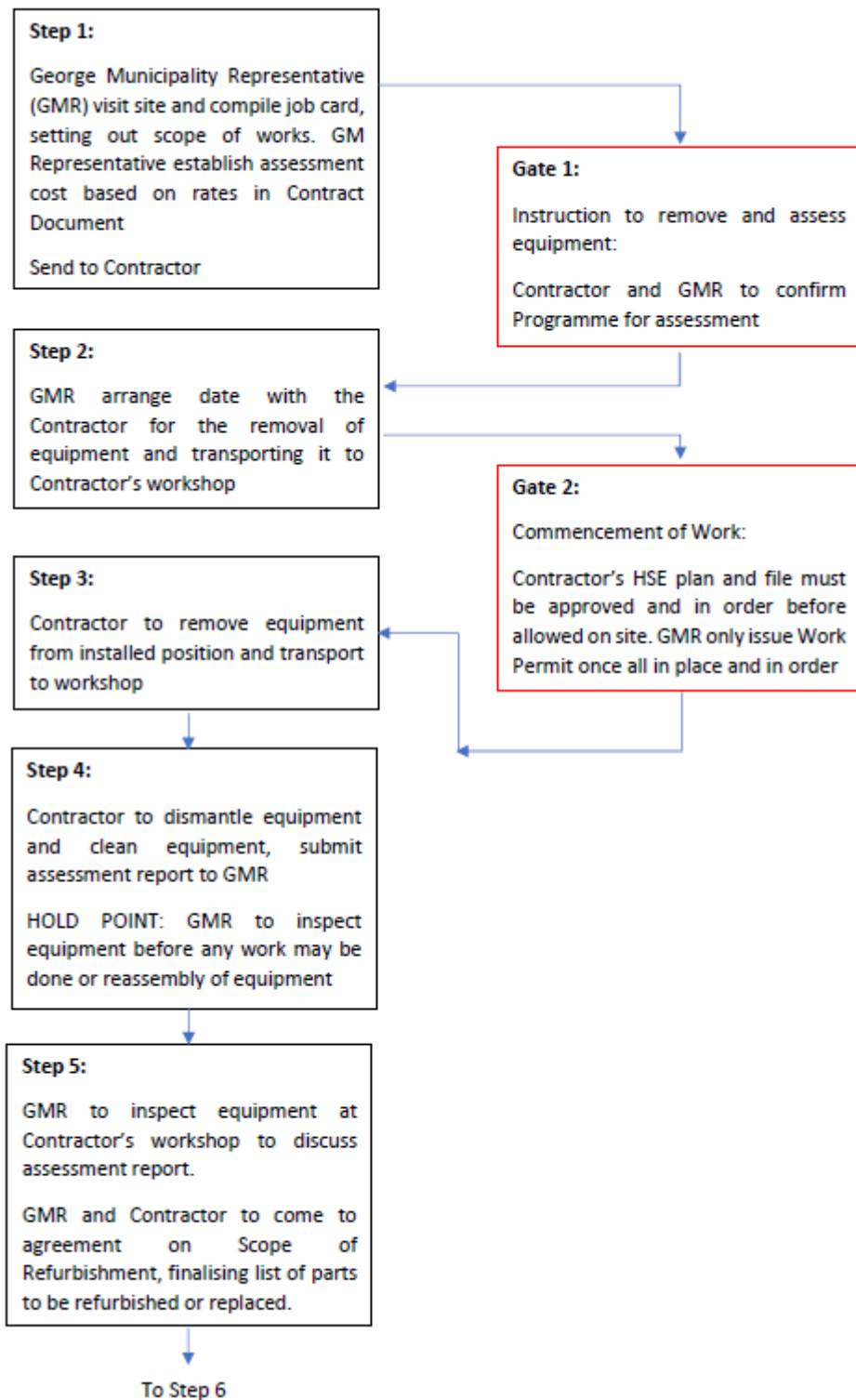


## Annexures

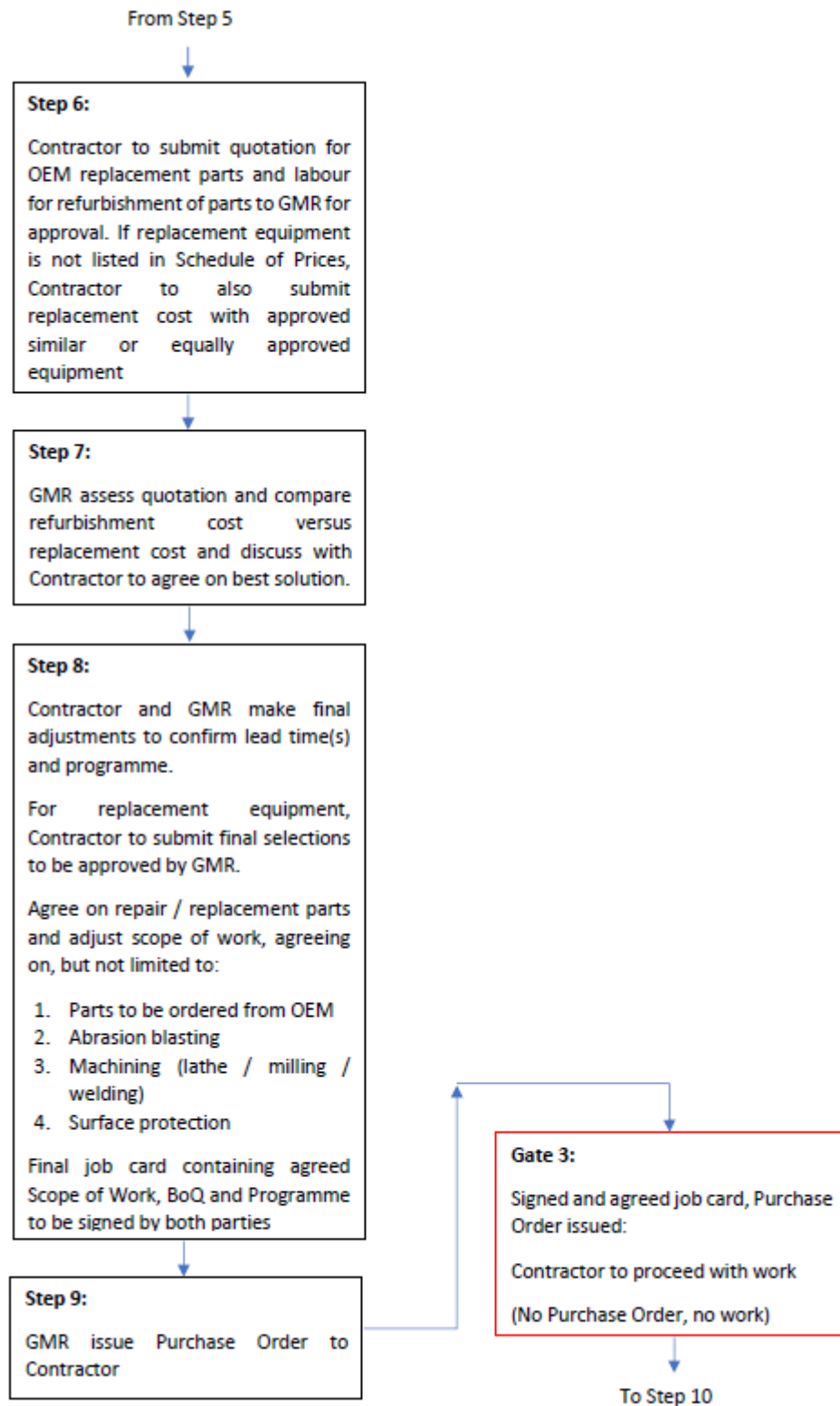


## Annexures

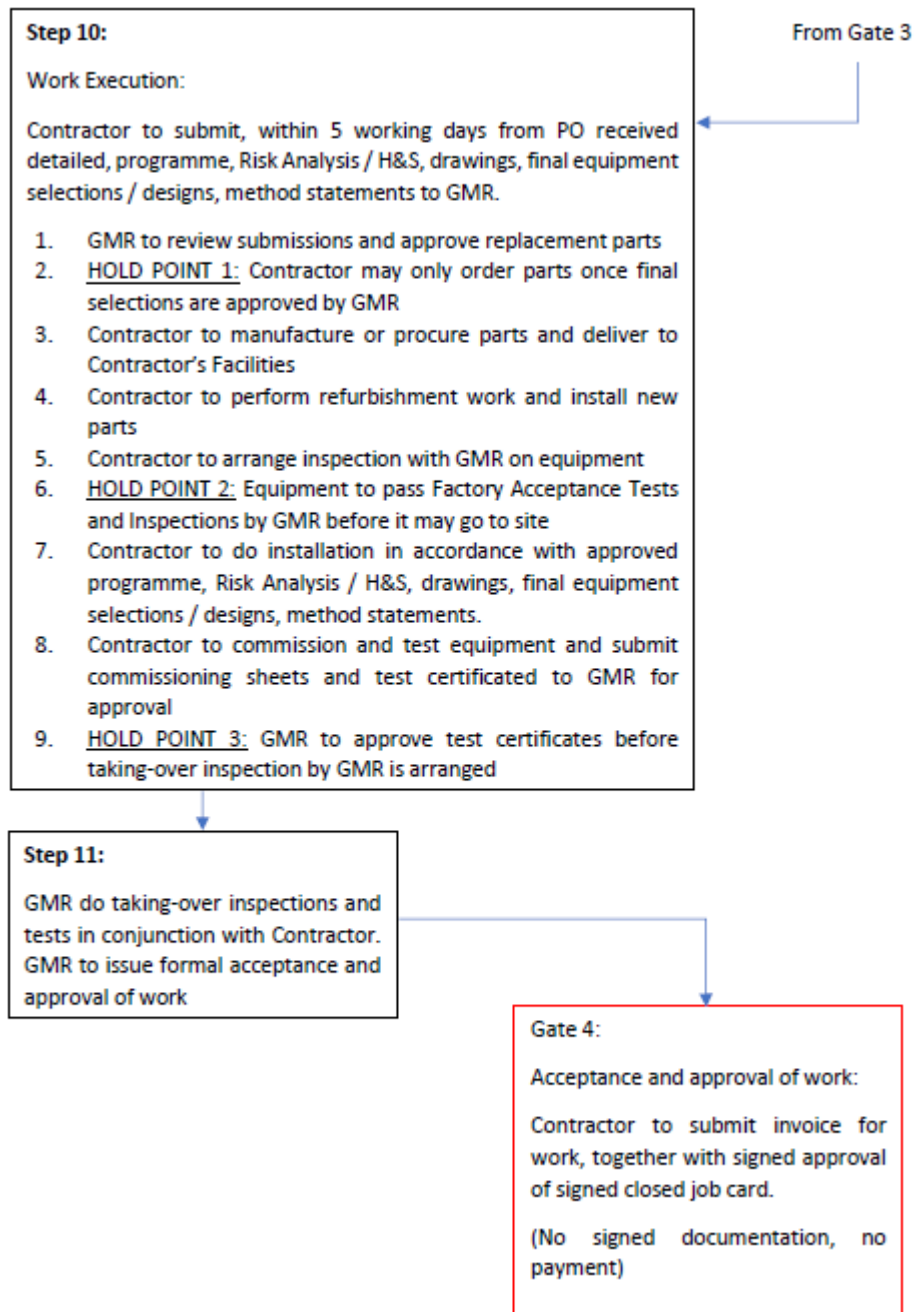
### 2. PROCEDURE FOR REFURBISHMENT OF EXISTING EQUIPMENT



## Annexures

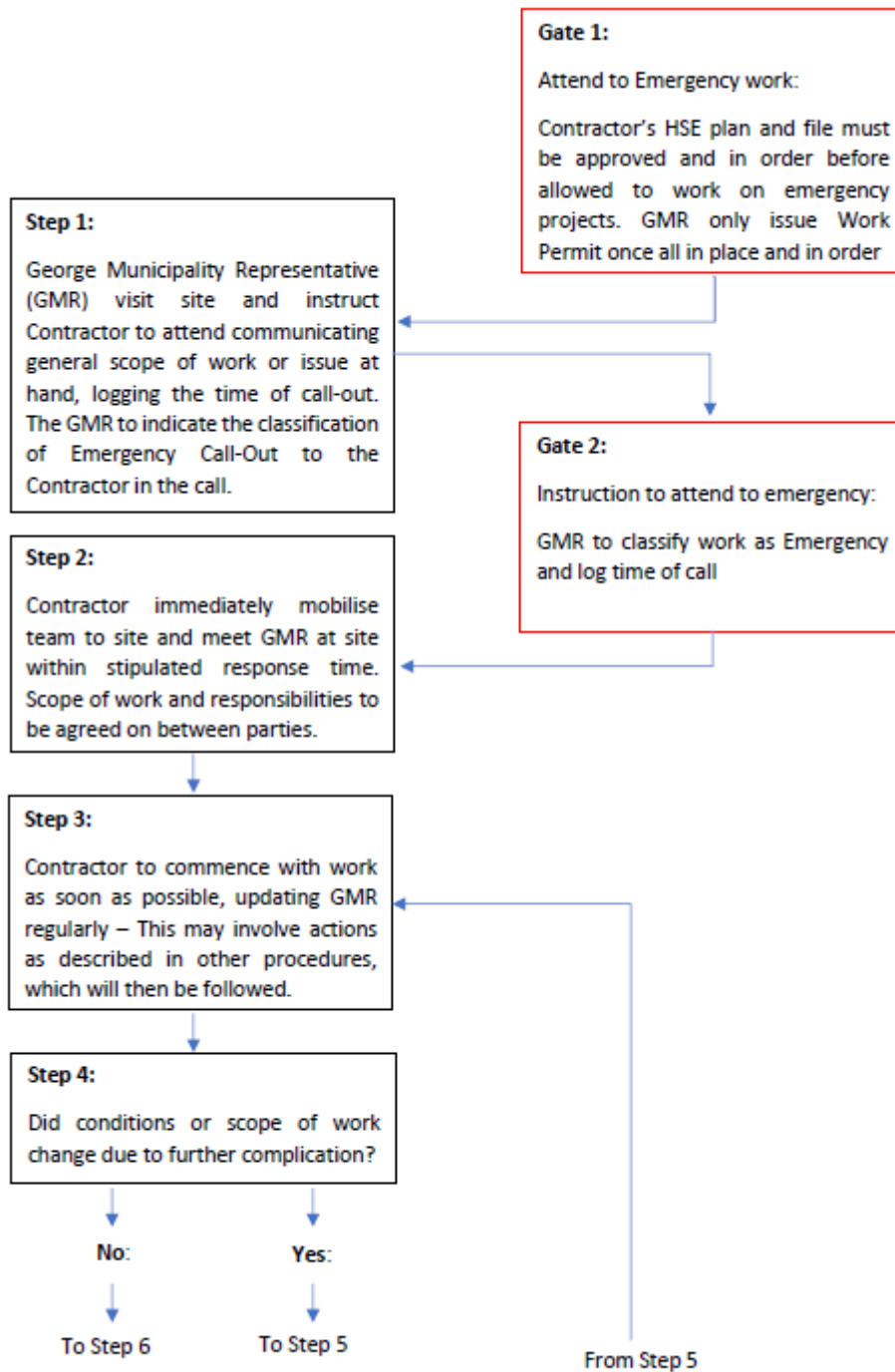


## Annexures

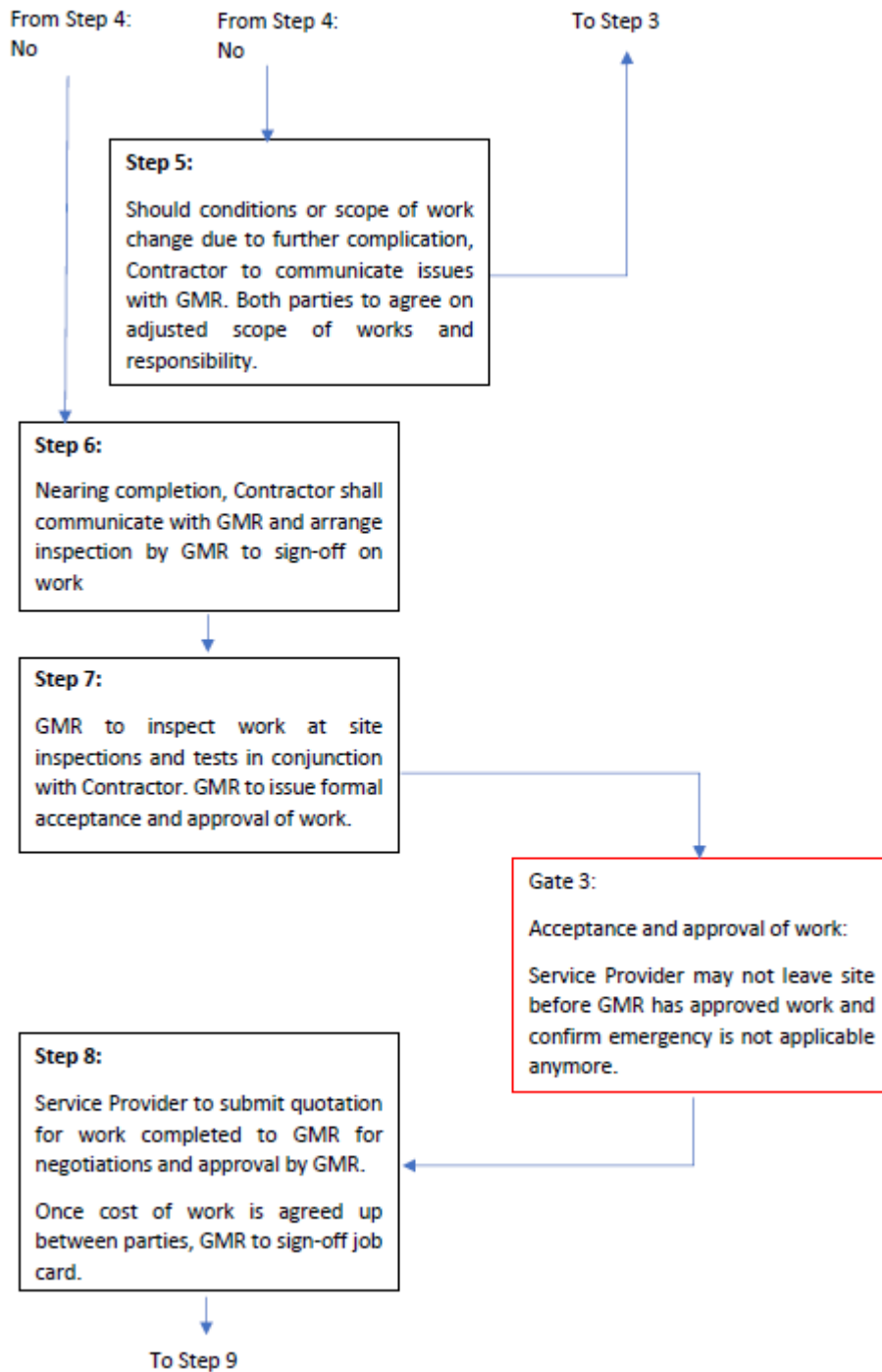


## Annexures

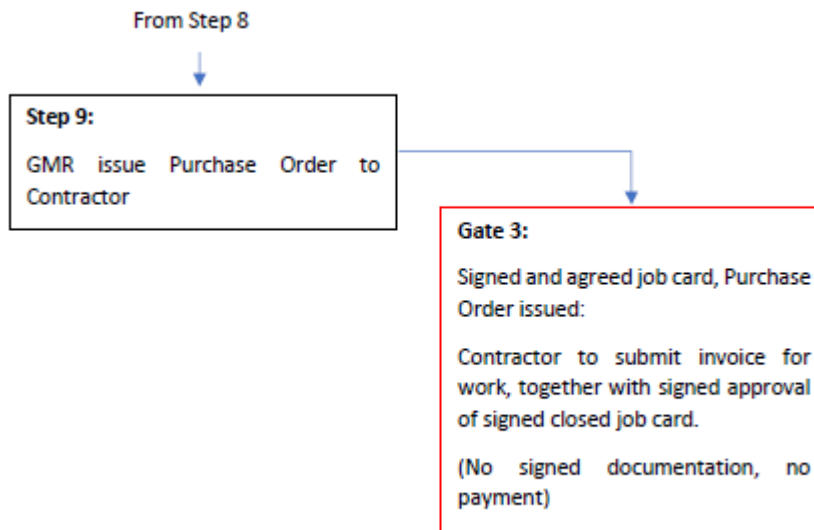
### 3. PROCEDURE FOR EMERGENCY WORK ON EXISTING EQUIPMENT / INSTALLATIONS



## Annexures

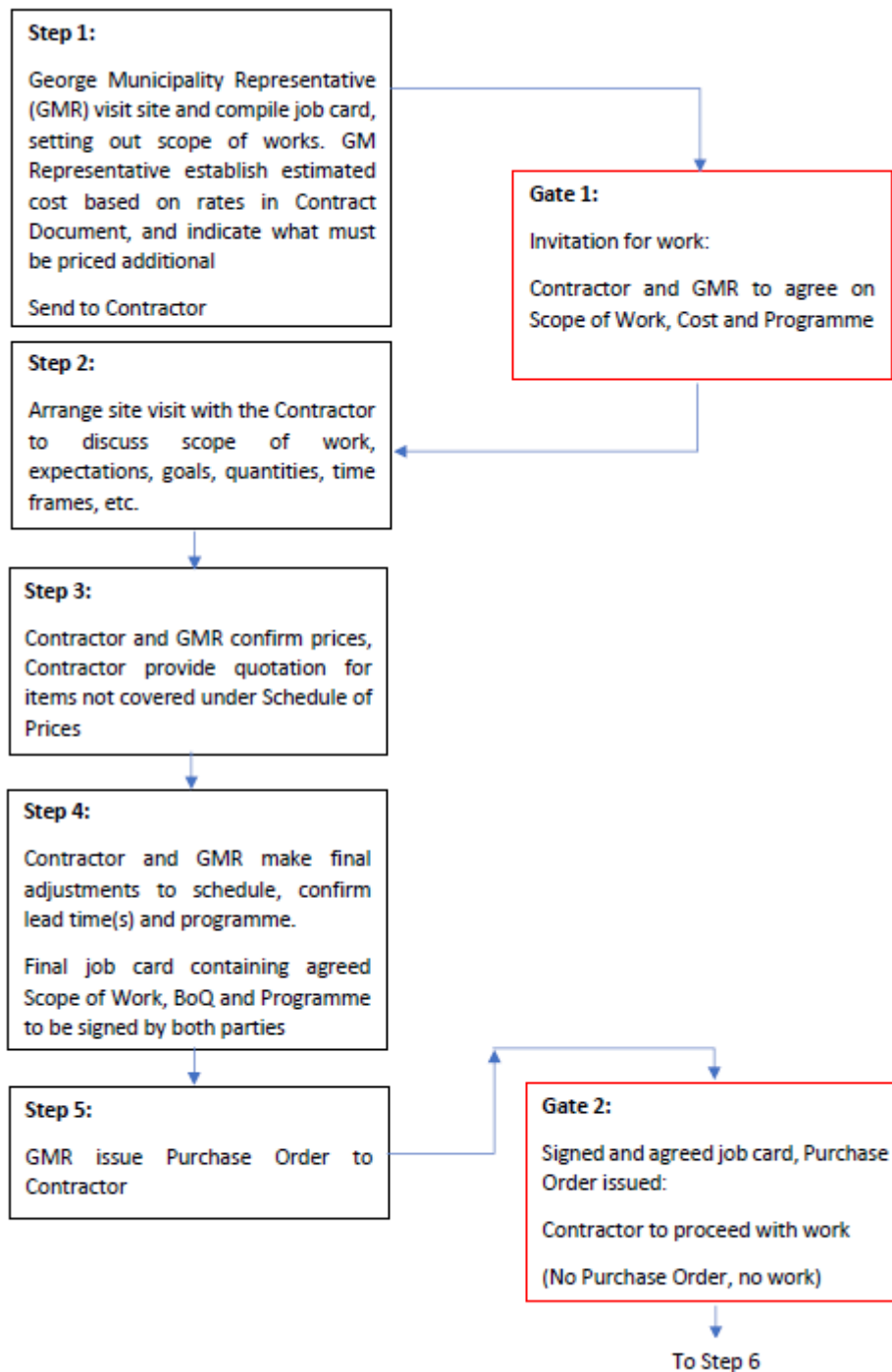


## Annexures

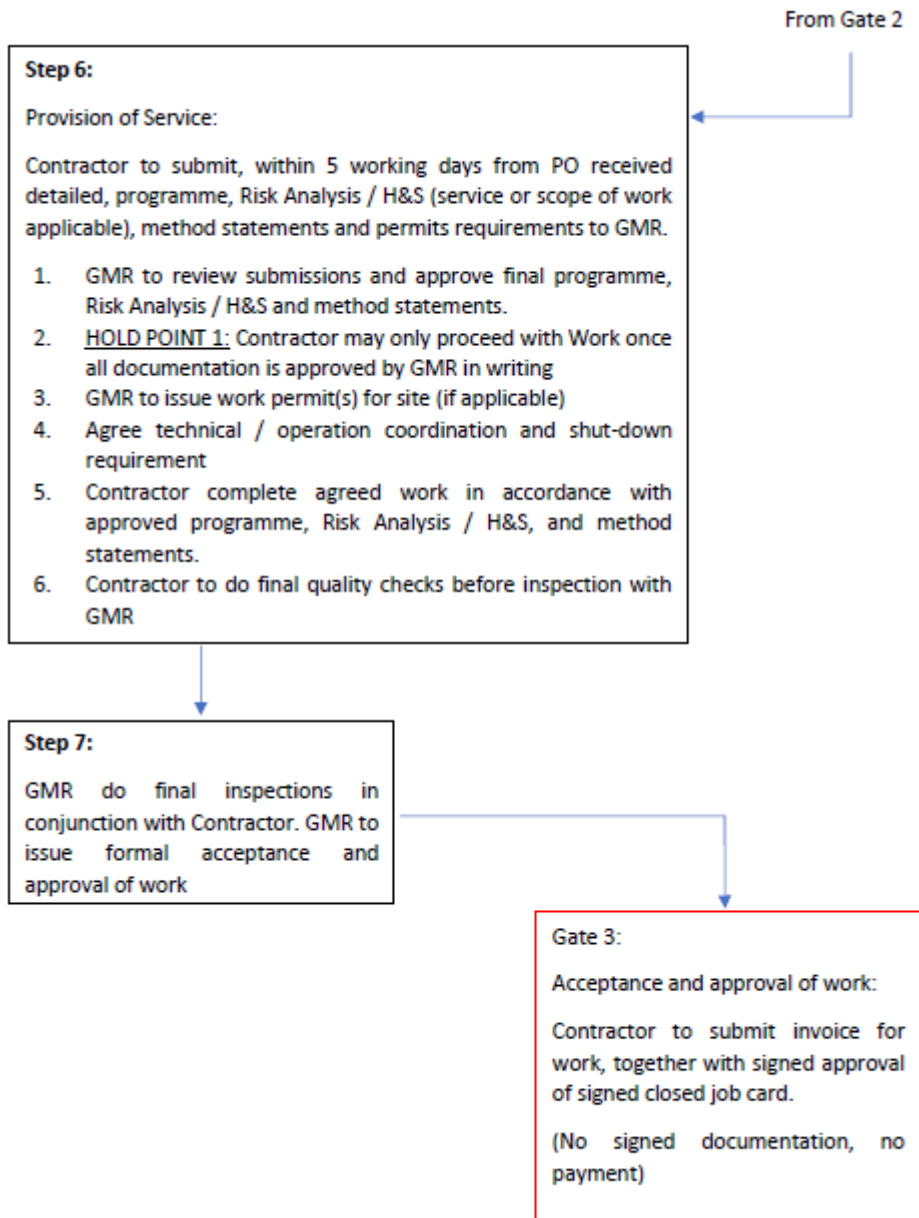


## Annexures

### 4. PROCEDURE FOR PROVISION OF SERVICES



## Annexures



ANNEXURE 2: EXISTING SEWER SCHEMATIC

