

**TENDER NO. 194C/2020/21**



**CITY OF CAPE TOWN  
ISIXEKO SASEKAPA  
STAD KAAPSTAD**

**FRAMEWORK CONTRACT DOCUMENT**

**FOR THE**

**TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY  
PROFESSIONAL SERVICES FOR THE WATER AND  
SANITATION DEPARTMENT OF  
THE CITY OF CAPE TOWN**

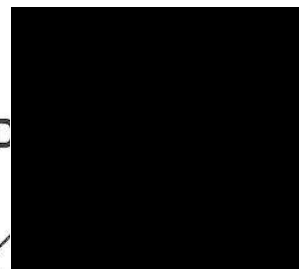
**CONCLUDED BETWEEN**

**CITY OF CAPE TOWN  
(WASTEWATER TREATMENT BRANCH)**

**AND**

**JG AFRIKA (PTY) LTD  
“WINNER”**

**REGISTRATION NUMBER:**



## PREAMBLE

WHEREAS Term Tender 194C/2020/21 was awarded to namely JG Afrika (Pty) Ltd, in line with resolution SCMB 50/05/21 dated 17 May 2021 for the provision of multidisciplinary professional services for the Water and Sanitation Department of the City of Cape Town, from the Start Date for a period of 60 months;

AND WHEREAS it is recorded that this Contract will be governed by the provisions of **Standard Professional Services Contract (July 2009) (Edition 3 of CIDB document 1015)**, as published by the Construction Industry Development Board ("GCC"), read with the Contract Specific Data ("CSD") annexed hereto marked **"PART C1.2: CONTRACT DATA"**.

## NOW THEREFORE THE PARTIES AGREE AS FOLLOWS:

### 1. PARTIES

The Parties to this Contract are:

- 1.1. The City of Cape Town, a metropolitan municipality, established in terms of the Local Government: Municipal Structures Act, 117 of 1998 read with the Province of the Western Cape: Provincial Gazette 5588 dated 22 September 2000, as amended ("the Employer"), herein represented by the **Executive Director: Water and Waste** duly authorised hereto;
- 1.2. JG Afrika (Pty) Ltd, a private company registered in terms of the laws of the Republic of South Africa with registration no: [REDACTED] with its principal place of business situated at 14 Central Square, Pinelands (the "Service Provider"), herein represented by its duly authorised representative, [REDACTED] in his capacity as Technical Director;

hereinafter jointly referred to as each a "Parties" and in singular, a "Party".

### 2. INTERPRETATION

- 2.1. In the event of any conflict between the provisions of this Contract, the GCC and any Part attached hereto, or any other document incorporated by reference to this Contract, save to the extent expressly stated to the contrary, such conflict will be resolved by giving precedence to such different parts of this Contract in the following order of precedence:
  - 2.1.1. first, the terms and conditions of the CSD;
  - 2.1.2. second, the terms and conditions of the GCC;
  - 2.1.3. third, Parts and annexures to this Contract; and
  - 2.1.4. fourth, any other documents incorporated by reference.
- 2.2. The provisions of this Contract supersede and replace the provisions of any previous agreement entered into between the Parties relating to the same subject matter.

**3. APPOINTMENT AND DURATION**

- 3.1. The Employer hereby appoints the Service Provider to perform the Scope of Work for the Employer from the Start Date.
- 3.2. Unless terminated earlier in accordance with the provisions as set out in the GCC or any other provision in terms of this Contract, this Contract shall be for a period of 60-months from the Start Date.

**4. MUTUAL GOOD FAITH / CO-OPERATION**

- 4.1. The Parties represent and undertake to do all such things, perform all such acts and take all steps to procure the doing of all such things and the performance of all such acts, as may be necessary or incidental to give effect to the execution of this Contract.
- 4.2. The Parties shall at all times during the continuance of this Contract observe the principles of good faith towards one another in the performance of their obligations in terms of this Contract.

**5. OBLIGATIONS OF THE EMPLOYER**

- 5.1. The Employer undertakes to perform its obligations in accordance with the Contract, including but not limited to the Scope of Work (**PART C3: SCOPE OF WORK**), subject to the satisfactory fulfilment of the obligations by the Service Provider as set out in this Contract.
- 5.2. The Employer shall monitor and evaluate the Contractor's performance in respect of the Scope of Work.

**6. OBLIGATIONS OF THE SERVICE PROVIDER**

- 6.1. The Service Provider hereby agrees and undertakes to perform the Services to the Employer as set out in Scope of Work (**PART C3: SCOPE OF WORK**).
- 6.2. The Service provider will perform the Works as expeditiously as possible and furthermore agrees and undertakes to perform the services in accordance with the operational requirements of the Employer.
- 6.3. The Service Provider will ensure that the Works will be of a satisfactory quality and fit for purpose, having due regard to the assumptions that the Service Provider can be reasonably expected to make in accordance with sound engineering and/or professional practice and exercising the level of skill, care and attention required of the Service Provider.
- 6.4. The Service Provider shall, ensure that its employees, agents, representatives, sub-contractors and suppliers comply with this Contract and all applicable Laws in the execution of the Works.
- 6.5. The Service Provider will not conduct any activity of whatsoever nature which may be detrimental to the Employer's reputation and goodwill.

**7. PRICING DATA**

- 7.1. The Contract Price for the Works shall be as set out in the Pricing Data annexed marked "**PART C2: PRICING DATA**".
- 7.2. The Service Provider shall not be entitled to any other consideration for the rendering of the Services other than as provided for in this Contract.

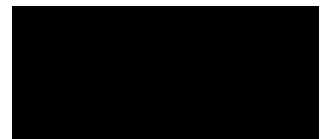
CITY OF CAPE TOWN

WATER AND SANITATION

CONTRACT NO. 194C/2020/21

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

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## Part C1: Agreements and Contract Data

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**JG AFRIKA**  
EXPERIENCE QUALITY INTEGRITY

Johannesburg

JG Afrika House

Your Ref.:

Our Ref.:

PO Box 1109  
Sunninghill 2157  
South Africa

Certified a true copy of the original and no indication  
of any alterations or original by unauthorised persons.

01 March 2021

15 SEP 2021

BEDFORDVIEW

DATE

PLACE

Commissioner of Oaths Ex Officio  
Professional Accountant (SA) - SAIPA

**RESOLUTION**

At a meeting of the Directors of JG Afrika (Pty) Ltd (The Company), held at Sunninghill on Monday, 1st March 2021, it was resolved that any Board or Technical Director of The Company, or any Associated Company, be authorized to sign any and all documentation required for the submission of any tender or proposal for the provision of services in the name of The Company.

Signed at Sunninghill this 1st day of March 2021 by the Directors of JG Afrika (Pty) Ltd.

PAUL ANTHONY OLIVIER :

VIRGINIA GCOTYELWA MKAZA :

JANET CLARE NORRIS :

PHAKAMILE LUMKI NGQUMSHE :

HAROLD HARALAMBOS TIGANIS :

**WITNESSES :**

1.

2.

JG Afrika (Pty) Ltd • Reg. No. 1977/000524/07

Directors: PA Olivier (Managing), Ms VG Mkaza, Ms JC Norris, PL Ngqumshe, HH Tiganis

Member Firm: Consulting Engineers South Africa (CESA) • ISO 9001:2015 certified • Level 1 B-BBEE contributor

Cape Town - Durban - Johannesburg - Maputo - Maseru - Maun - Pietermaritzburg - Port Elizabeth

johannesburg@jgafrica.com

www.jgafrica.com

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

## C1.1 Form of Offer and Acceptance – Wastewater Treatment Branch

### Offer

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

**CONTRACT 194C/2020/21: TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN**

The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorised, signing this part of this form of offer and acceptance, the tenderer offers to perform all of the obligations and liabilities of the service provider under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

This is a rates based contract.

The rates as contained in Part C2.2: Schedules of Rates for the branches tendered for, shall form the tender offer. These rates shall be multiplied, as applicable, by the quantities required in respect of relevant items to develop individual Works Projects to be allocated in accordance with the procedures described in the Procedure for the Allocation of Works Projects, Part C1.2: Contract Data in this Framework Contract document.

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the service provider in the conditions of contract identified in the contract data.

Signature(s)

Name(s)

Capacity

for the tenderer

(Name of organization/tenderer)

(Address of organization/tenderer)

Name and  
signature  
of witness

Date 07/12/2020

For official use.

INITIALS OF CITY OFFICIALS AT TENDER

## Acceptance – Wastewater Treatment Branch

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:

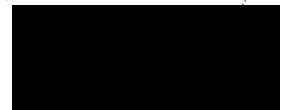
- Part C1: Agreements and contract data, (which includes this agreement)
- Part C2: Pricing data
- Part C3: Scope of work
- Part C4: Site information

and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the returnable schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this form of offer and acceptance. No amendments to or deviations from said documents are valid unless contained in this schedule.

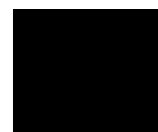
The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's representative (whose details are given in the contract data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance 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 the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now contractor) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.



| The Parties                                         | Employer                                                  | Service Provider    |
|-----------------------------------------------------|-----------------------------------------------------------|---------------------|
| Business Name                                       | City of Cape Town<br>Metropolitan Municipality            | JG Afrika (Pty) Ltd |
| Business Registration                               | Not applicable                                            |                     |
| Tax number (VAT)                                    |                                                           |                     |
| Physical Address                                    | Civic Centre<br>12 Hertzog Boulevard<br>Cape Town<br>8000 |                     |
| Accepted contract sum including tax                 | Rates based contract                                      |                     |
| Accepted contract duration                          | 60 months from Start Date                                 |                     |
| Signed – who by signature hereto warrants authority |                                                           |                     |
| Name of signatory                                   |                                                           |                     |
| Signed: Date                                        | 6 October 2021                                            | 5/10/2021           |
| Signed: Location                                    | Cape Town                                                 | Bellville.          |
| Signed: Witness                                     |                                                           |                     |
| Name of Witness                                     |                                                           |                     |

|                 |  |
|-----------------|--|
| Start Date      |  |
| Completion Date |  |





**TAX COMPLIANCE STATUS**  
**PIN Issued**

Enquiries should be addressed to SARS:

**Contact Detail**

SARS  
Alberton  
1528

Contact Centre Tel: 0800 00 SARS (7277)  
SARS online: [www.sars.gov.za](http://www.sars.gov.za)

JG AFRIKA (PTY) LTD

**Details**

Taxpayer Reference Number:

Always quote this reference  
number when contacting SARS

Issue Date:

2021/02/17

Dear Taxpayer

**TAX COMPLIANCE STATUS PIN ISSUED**

The South African Revenue Service (SARS) has issued your tax compliance status (TCS) PIN as indicated below:

| TCS Details:             |                     |
|--------------------------|---------------------|
| Taxpayer Name            |                     |
| Trading Name             | JG AFRIKA (PTY) LTD |
| Tax Reference Number(s)  |                     |
| Purpose of Request       | Tender              |
| Request Reference Number |                     |
| PIN                      |                     |
| PIN Expiry Date          |                     |

You may authorise a third party to view your TCS by providing them the PIN. The PIN only allows the third party access to your TCS. All other tax information remains secure.

Your TCS displayed is based on your compliance as at the date and time the PIN is used.

You may cancel this PIN at any time before the expiry date reflected above. Once cancelled, a third party will not be able to verify your TCS.

SARS reserves the right to cancel this PIN in the event that it was fraudulently issued or obtained.

Should you have any other queries please call the SARS Contact Centre on 0800 00 SARS (7277). Remember to have your taxpayer reference number at hand when you call to enable us to assist you promptly.

Sincerely

**ISSUED ON BEHALF OF THE SOUTH AFRICAN REVENUE SERVICE**

CITY OF CAPE TOWN

WATER AND SANITATION

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AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

## C1.2 Contract Data – Wastewater Treatment Branch

### Data provided by the Service Provider

The name of the Service Provider is .

The address of the Service Provider is

Physical  
Address:

Postal  
Address:

Telephone:

Fax:

email:

CITY OF CAPE TOWN

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## C1.2 Contract Data

### Part 1: Contract Data provided by the Employer

#### GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract are the **Standard Professional Services Contract (July 2009)** (Edition 3 of CIDB document 1015), as published by the Construction Industry Development Board.

Copies of these General Conditions of Contract may be obtained from the Construction Industry Development Board's website [www.cidb.org.za](http://www.cidb.org.za). Copies of the General Conditions of Contract are also available for inspection and scrutiny at the offices of the Employer.

The pro-formas attached to the Standard Professional Services Contract (July 2009) on pages 17 to 24 shall not apply to this Contract and shall be replaced with the documentation bound into this Contract Document.

The General Conditions of Contract make several references to the Contract Data for specific data, which together with the standard contract collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the General Conditions of Contract.

The General Conditions of Contract shall be read in conjunction with the variations, amendments and additions set out in the Contract Specific Data below. Each item of data given below is cross-referenced to the clause in the General Conditions of Contract to which it mainly applies.

The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

- i. the Form of Offer and Acceptance,
- ii. the Contract Specific Data within the Contract Data,
- iii. the General Conditions of Contract
- iv. the Drawings
- v. the Scope of Work
- vi. the Pricing Data, and,
- vii. The Conditions of Tender, the Tender Data and Tender Schedules.

If an ambiguity or discrepancy is found in the documents, the Employer shall issue any necessary clarification or instruction.

#### CONTRACT SPECIFIC DATA

The following contract specific data is applicable to this Contract:

##### **Clause 1:**

*Add the following to the definition of **Employer**:*

The Employer is the CITY OF CAPE TOWN.

*Add the following new definitions:*

"Framework Contract" means the Contract as defined in Clause 1 of the Standard Professional Services Contract (July 2009) (Edition 3 of CIDB document 1015).

"Framework Contract Period" means the period 60 months from the Start Date.

**"Framework Contract Manager"** (for each branch)" means the person named as the Framework Contract Manager in the Contract Data or any other person appointed from time to time by the Employer and of whom the is notified, in writing, to act as Framework Contract Manager for the particular branch for the purposes of the Contract as substitute for the Framework Contract Manager so named.

The function of the Framework Contract Manager is to administer the Framework Contract, and such functions as would normally fall to the Employer's Agent/Engineer/Principal Agent in accordance with the provisions of the Framework Contract, shall be undertaken by the Framework Contract Manager in this regard.

The Framework Contract Manager shall be an employee of the Employer, authorised as its representative to administer the Framework Contract, and all references to Employer's Agent/Engineer/Principal Agent in the Contract shall apply to the Framework Contract Manager in respect of his/her administering the Framework Contract.

The Framework Contract Manager is:

|                 |                                                                       |
|-----------------|-----------------------------------------------------------------------|
| Branch:         | <b>Wastewater Treatment</b>                                           |
| Name:           | [REDACTED]                                                            |
| Postal address: | Water and Sanitation Department<br>Private Bag X98<br>Bellville, 7535 |
| Cellphone No.:  | [REDACTED]                                                            |
| E-mail:         | [REDACTED]                                                            |

Add the following to the definition of **Key Persons**:  
Key personnel shall have the same meaning as Key Persons.

Replace the term **Period of Performance**:  
Replace the term Period of Performance with the term **Framework Contract Period** (as defined above)

Add the following to the definition of **Project**:  
The project is the **TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN**

Add the following new definitions:

**"Intellectual Property"** means any and all intellectual property rights of any nature anywhere in the world whether registered, registerable or otherwise, including patents, trademarks, registered designs and domain names, applications for any of the foregoing, trade or business names, copyright and rights in the nature of copyright, design rights, rights in databases, know-how, trade secrets and any other intellectual property rights which subsist in computer software, computer programs, websites, documents, information, techniques, business methods, drawings, logos, instruction manuals, lists and procedures and particulars of customers, marketing methods and procedures and advertising literature, including the "look and feel" of any websites

**"Purchase Order"** means the official purchase order created and released on the City of Cape Town's SAP System.

**"Schedules of Rates"** means, in this Framework Contract document, the document so designated in the Pricing Data, and which will be used to compile a quotation for Professional Services to be rendered for each Works Project.

**"Standby Service Provider"** means either "Standby Service Provider 1" or "Standby Service Provider 2"

**"Standby Service Provider 1"** means the highest ranked eligible (subject to Clause C.1.6.1 (b) in the Tender Data) Service Provider for a branch appointed by the Employer under the Framework Contract to be available to execute Works Projects, for the duration of the Framework Contract Period and then only if the "Winner" declines/refuses a Works Project or unless the Employer considers the "Winner" not to be performing on existing Works Projects. (refer to clause 5.1.3 in C 1.2: Contract Data)

**"Standby Service Provider 2"** means the highest ranked eligible (subject to Clause C.1.6.1 (b) in the Tender Data) Service Provider for a branch appointed by the Employer under the Framework Contract to be available to execute Works Projects, for the duration of the Framework Contract Period and then only if the "Winner" and "Standby Service Provider 1" declines/refuses a Works Project or unless the Employer considers the "Winner" and "Standby Service Provider 1" not to be performing on existing Works Projects. (refer to clause 5.1.3 in C 1.2: Contract Data)

**"Winner"** means the highest ranked eligible (subject to Clause C.1.6.1 (b) in the Tender Data) Service Provider appointed by the Employer under the Framework Contract who will be allocated work as and when a Works Project arises for the duration of the Framework Contract Period.

**"Works Project"** means a part of the Works to be performed (task) by a Service Provider under the Contract, the specific terms, conditions and scope of the Works Project contract being specified in a Works Project Contract Brief.

Add the following to the definition of **Service Provider:**

The contracting party may be a consortium/joint venture contracting as a formally constituted Joint Venture Partnership, in which all parties are jointly and severally liable. In terms of this definition, the words consortium and joint venture shall be regarded as synonymous.

Add the following to the definition of **Start Date:**

The Start Date is the date when the Service Provider confirms receipt of one fully completed original copy of this document, including the acceptance part of the form of offer and acceptance, and schedule of deviations (if any).

Add the following definition:

#### **Clause 3.1**

Delete the heading and replace with **"Governing law and policies"**

Add the following at the end of clause 3.1

#### **Supply Chain Management Policy**

- a) The parties agree that this contract shall also be subject to the Employer's Supply Chain Management Policy ('SCM Policy') that was applicable on the date the bid was advertised, **save that if the Employer adopts a new SCM Policy which contemplates that any clause therein would apply to the contract emanating from this tender, such clause shall also be applicable to that contract.** Please refer to this document on the Employer's website.
- b) Abuse of the supply chain management system is not permitted and may result in cancellation of the contract, restriction of the supplier, and/or the exercise by the Employer of any other remedies available to it as described in the SCM Policy.

#### **Clause 3.2**

Replace the words "time for completion" with "Framework Contract Period".

#### **Clause 3.4 and Clause 4.3.2:**

Add the following:

The authorised and designated representatives of the Employer are the Directors of Bulk Services, Retail Services and Technical Services of the Water and Sanitation Department.

The address for receipt of communications is:

|                   |                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------|
| Branch            | Wastewater Treatment                                                                                                     |
| Department        | Bulk Services                                                                                                            |
| Email             |                                                                                                                          |
| Postal Address:   | Private Bag X98<br>BELLVILLE<br>7535                                                                                     |
| Physical Address: | Bellville Water and Sanitation Head Office<br>Corner of Voortrekker Road and Mike Pienaar Boulevard<br>BELLVILLE<br>7535 |

#### **Clause 3.4.1:**

Add the following to the first sentence:

... , 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

#### **Clause 3.5:**

Add the following:

The location for the performance of the Project will be the **Local Office** of the Service Provider, together with the sites of the proposed projects. The local office must be in the Cape Metropolitan area or within a radius of 60 km from the Water and Sanitation Head Office, Bellville. If the Service Provider does not have a local office, they will be required to establish a local office within 2 (two) months of the Start Date. All communication with the Employer will flow through this local office. This local office may belong to the Service Provider or any of his Joint Venture partners or sub-consultants.

Key personnel will be expected to work out of the local office for the full duration of the Framework Contract as the exigencies of this contract require.

**Clause 3.8.1:**

*Add the following new paragraph:*

The Employer reserves the right to reduce, increase or cancel individual Works Projects. This shall be done without adjustment to the agreed rates, sums or fees and without payment of any penalty or surcharge in this regard.

**Clause 3.9.1:**

*Add the following after f):*

g) a change in the cost of the construction works applicable to the services

**Clause 3.9.2:**

Replace the words "6 weeks" with "21 days".

*Add the following at the end of the clause:*

Should any of the events described in clause 3.9.1 occur, the professional fees and disbursement may be adjusted in a fair and reasonable manner. The Service Provider shall, however, not be entitled to an adjustment to the extent that the variation is due to the negligence or default of the Service Provider. The Service Provider is required to provide all necessary substantiating documents required by the employer to evaluate the request for variation.

**Clause 3.9.3:**

*Delete the clause and replace with the following:*

The Employer shall assess the changes to the estimated fee (per Works Project) proposed by the Service Provider on any fair and reasonable basis. The Employer may assess these changes on the effect of the event on the Services based on the time-based fees as stated in the Pricing Data.

**Clause 3.12**

*Delete the heading and replace with "Penalties and fines"*

**Clause 3.12.1**

*Add the following:*

Failure to establish a Local Office within 2 (two) months of the Contract Start Date (refer to clause 3.5 of the Contract Data above):

Failure to establish a Local Office within 2 (two) months of the Contract Start Date will result in the implementation of penalties.

- The penalty amount for every day for which the Local Office is not established and functional is R5 000 with no limit.
- The minimum 'functional' requirement is for the Key Personnel (required for the Works Projects) to be established together with the necessary physical resources.
- A Breach Notice will be issued if the Local Office is not established by the due date with the requirement that the matter be remedied within 14 days or such time as agreed to by the Employer.
- No further Works Project Briefs will be issued if the Local Office is not established and functional within 2 (two) months of the Contract Start Date.
- Should the Employer consider the local office not to be functional at any stage during the course of the contract, the Employer will notify the Service Provider accordingly and issue a Breach Notice.
- If the matter is not resolved within 14 days (or such time as agreed to by the Employer) of the issuing of the Breach Notice, the Employer may terminate the contract in terms of Clause 8.4.1 (c) of the Contract Data.

Failure to meet deliverable or milestone date (as defined in the agreed Works Project proposal):

Failure to adhere to timeframes without valid agreed upon reasons will result in the implementation of penalties.

- The penalty amount per day for each deliverable/milestone is R2 000 (to a maximum of 42 days - R84 000).
- A deliverable/milestone that is more than 14 days late will result in the issuing of a Breach Notice which will require the matter to be remedied within 14 days or such time as agreed to by the Employer.
- If the matter is not resolved within 14 days (or such time as agreed to by the Employer) of the issuing of the Breach Notice, the Employer may terminate the contract in terms of Clause 8.4.1 (c) of the Contract Data.

*Add the following after 3.12.2*

**Clause 3.12.3**

The Employer may impose the following additional penalties or fines:

- a) Penalties for breach of conditions of granting preferences in terms of the **Preference Schedule**.
- b) Penalties for failure to meet targeted labour and local enterprises contract participation goals (if applicable)
- c) Any other fines or penalties levied in accordance with any of the specifications.

**Clause 3.15.1:**

*Add the following:*

The programme shall be submitted within 14 days of the Start Date.

**Clause 3.16.2:**

Replace the words "in which the start date falls" with "prior to the closing date of the tender".

*Add the following:*

The indices are those contained in Table A of the P0141 Consumer Price Index for the CPI for services published by Statistics South Africa.

**Clause 4.7:**

*Delete the clause and replace with:*

The Employer shall pay the Service Provider in accordance with the provisions of the Contract.

*Add the following clause after Clause 4.7:*

**Clause 4.8 Procedure for the allocation of Works Projects**

The Employer will provide the Service Provider with a scope/project brief and any specific terms and conditions (such as time frames/milestones) for a particular Works Project. The Employer reserves the right to plan and effect individual Works Projects at its sole discretion and subject to the availability of funding. The Employer also reserves the right to increase or decrease the scope of work at its sole discretion.

If the "Winner" declines the Works Project due to lack of capacity at that time, the Employer reserves the right to offer the Works Project to the "Standby Service Provider 1".

If the "Standby Service Provider 1" declines the Works Project due to lack of capacity at that time, the Employer reserves the right to offer the Works Project to the "Standby Service Provider 2".

If, in the opinion of the Employer, the "Winner" is:

- (a) not performing on an existing Works Project/s; or
- (b) is lacking capacity or the necessary skills for a particular Works Project; or
- (c) if the proposal on a Works Project is unsatisfactory (after consultations), then

the Employer reserves the right to offer the Works Project to the "Standby Service Provider 1".

If, in the opinion of the Employer, the "Standby Service Provider 1" is:

- (a) not performing on an existing Works Project/s; or
- (b) is lacking capacity or the necessary skills for a particular Works Project; or
- (c) if the proposal on a Works Project is unsatisfactory (after consultations), then

the Employer reserves the right to offer the Works Project to the "Standby Service Provider 2".

The procedure for the allocation of Works Projects is described in detail at the end of this Part 1: Contract Data provided by the Employer.

**Clause 5.1.1**

*Add the following*

The Services to be performed will be defined in terms of the Works Projects.

The procedure for the allocation of Works Projects are described in Clause 4.8 above.

The Service Provider will respond to the Works Project Brief with a Works Project Proposal

The Employer reserves the right to reduce the scope of work of a Works Project or cancel a Works Project based on the Non-performance of the Service Provider.

*Add the following after Clause 5.1.2:*

**Clause 5.1.3** Failure to perform (Non-performance) by the Service Provider on a Works Project would include (but not be limited to) the following:

- Repeated inadequate Works Project Proposals (including methodology, resources availability and appropriate skills, resource-based costing where applicable, programming time frames/milestones, cost proposals);
- Failure to provide adequate and appropriate resources;

- Repeated failure to adhere to the agreed programme or time frames/milestones,
  - Repeated failure to submit reports, drawings or other documents by the agreed dates;
  - Repeated errors or significant design or construction monitoring errors;
  - Other failures or actions on the part of the Service Provider causing additional costs to the Employer or delays to the programme;
  - Combinations of the above.
- (a) If the "Winner" does not remedy a failure in the performance of their duties under the Works Project within fourteen (14) days of having been notified thereof, or within any further period that the Employer may subsequently approve in writing, the Employer reserves the right to:
- Reduce the scope of work of the Works Project;
  - Cancel the Works Project;
  - Offer the Works Project in question and/or subsequent Works Projects to the "Standby Service Provider 1".
- (b) If the "Standby Service Provider 1" does not remedy a failure in the performance of their duties under the Works Project within fourteen (14) days of having been notified thereof, or within any further period that the Employer may subsequently approve in writing, the Employer reserves the right to:
- Reduce the scope of work of the Works Project;
  - Cancel the Works Project;
  - Offer the Works Project in question and/or subsequent Works Projects to the "Standby Service Provider 2".

**Clause 5.4.1:**

*Add the following:*

The Service Provider is required to take out and maintain, for the full duration of the performance of this contract, the following insurance cover:

- a) Professional Indemnity (PI) insurance providing cover in an amount of not less than R20 000 000 in respect of each and every claim during the period of insurance. Where the entity tendering is a joint venture then the value of the PI insurance cover required may be shared between the joint venture partners in proportion to the percentage contribution of each party to the joint venture.
- b) Public Liability insurance with a limit of indemnity of not less than R20 000 000 for any single claim, the number of claims to be unlimited during the contract period.
- c) Insurance in terms of the provisions of the Compensation for Occupational Injuries and Diseases (COID) Act No. 130 of 1993.

The Service Provider shall ensure that any sub-contractors engaged in construction activities shall, in addition to the Public Liability and COID Insurances as described above, also take out and maintain contractors all risks insurance to the value of the work being undertaken.

**Clause 5.4.2**

*Add the following:*

Evidence of insurance or confirmation (warranty) from a reputable Insurance Broker that the required insurances are in place, shall be submitted within 14 days of the Start Date.

*Add the following clause after Clause 5.4.2:*

- 5.4.3 The Service Provider shall maintain the insurance policy/ies for the duration of the liability period in terms of Clause 13.4 and shall upon request by the Employer provide periodic proof of such insurance.

**Clause 5.5:**

*Add the following:*

The Service Provider is required to obtain the Employer's prior approval in writing before taking any of the following actions:

- a) Replacing any of the key and additional personnel listed at the time of tender.
- b) Occupying any public land or facility for any purpose that will cause disruption and or inconvenience to the users of such land or facility in respect of any construction contract.
- c) Making a material change, addition or omission from the approved designs.
- d) The exercising of any discretion in terms of any terms and conditions in this contract, that results in the utilisation of the contingency allowance of a construction contract, increasing the contract value for that construction contract or awarding any additional time for that construction contract as detailed in the relevant contract conditions.
- e) Permitting advance payment for items not listed in the Advance Payment Schedule.
- f) Nominating the Employer's Agent/Engineer/Principal Agent or their respective representatives (as applicable) in terms of the relevant Conditions of Contract.
- g) Authority of the Employer's Agent/Engineer/Principal Agent to delegate.
- h) Granting permission to work during non-working times in terms of the relevant Conditions of Contract.

- i) Suspend the progress of the works in terms of the relevant Conditions of Contract.
- j) The issuing of an instruction to accelerate progress in terms of the relevant Conditions of Contract.
- k) Approval of any other Additional and Specialist Services and their respective costs/hourly rates.

**Clause 6.4:**

*Add the following clause after Clause 6.3:*

**6.4 Conflict of interest:**

The Service Provider shall immediately disclose any potential conflict of interest or involvement in the project other than a professional interest in terms of this Contract.

**Clause 7.1.2**

*Add the following:*

Key Persons shall be those individuals listed under "Key personnel" in Part C3.1 Scope of Work.

**Clause 7.2.1:**

*Add the following:*

The Service Provider shall provide appropriate Personnel for such time periods as required and shall enter all data pertaining to Personnel (Key personnel and additional personnel) on Schedules 11, 11A and 18, in Part T2.2: Returnable Schedules.

**Clause 8.1:**

*Add the following:*

The Service Provider is to commence the performance of the Services within 14 days of the Start Date.

**Clause 8.4.1:**

*Delete "thirty (30)" in the second line of Clause (c) and replace with "fourteen (14)"*

*Delete "or" at the end of Clause 8.4.1(d) and add the following five clauses after Clause 8.4.1(e):*

- f) if the Service Provider has failed to provide the required insurances within the prescribed time;
- g) if the Service Provider has committed a corrupt or fraudulent act during the tender process or the execution of the Contract;
- h) if the Service Provider has benefitted from an official or other role player committing any corrupt or fraudulent act during the tender process or in the execution of the Contract;
- i) if a material irregularity vitiates the procurement process leading to the conclusion of the contract, rendering the procurement process and the conclusion of the resulting contract unfair, inequitable, non-transparent, uncompetitive or not cost-effective, provided the Employer follows the processes as described in its SCM Policy; or
- j) The implementation of the contract may result in reputational risk or harm to the City as a result of (inter alia):
  - (i) reports of poor governance and/or unethical behaviour;
  - (ii) association with known family of notorious individuals;
  - (iii) poor performance issues, known to the Employer;
  - (iv) negative social media reports; or
  - (v) adverse assurance (e.g. due diligence) report outcomes;

**Clause 8.4.3(c):**

*Add the following:*

The period of suspension under Clause 8.5 is not to exceed 6 months.

**Clause 8.4.4:**

*Delete the content of this clause and replace with the following:*

Upon termination of this Contract pursuant to Clauses 8.4.1 or 8.4.3, the Employer shall remunerate the Service Provider in terms of the Contract for Services satisfactorily performed prior to the effective date of termination and reimburse the Service Provider without adjustment to the agreed rates, sums or fees and without payment of any penalty or surcharge, including any pro-rata payment for partially completed Services, except in the case of termination pursuant to events (c) and (d) of Clause 8.4.1.

*Add the following after clause 8.4.5:*

**Clause 8.4.6**

In addition to anything else contained in this contract, the Employer may make either of the following elections to ensure its rights are protected and any negative impact on service delivery is mitigated in instances where the Service Provider has been liquidated:

- a) accept a contractor's proposal (via the trustee / liquidator) to render delivery utilising the appropriate contractual mechanisms; or
- b) terminate the contract, as the liquidator proposed contractor is deemed unacceptable to the employer, at any time by giving written notice to the contractor (via the trustee / liquidator).

**Clause 9:**

*Delete the clause and replace with the following:*

- 9.1 The Service Provider acknowledges that it shall not acquire any right, title or interest in or to the Intellectual Property of the Employer.
- 9.2 The Service Provider hereby assigns to the Employer, all Intellectual Property created, developed or otherwise brought into existence by it for the purposes of the contract, unless the Parties expressly agree otherwise in writing.
- 9.3 The Service Provider shall, and warrants that it shall:
- 9.3.1 not be entitled to use the Employer's Intellectual Property for any purpose other than as contemplated in this contract;
- 9.3.2 not modify, add to, change or alter the Employer's Intellectual Property, or any information or data related thereto, nor may the Service Provider produce any product as a result of, including and/or arising from any such information, data and Intellectual Property, and in the event that it does produce any such product, the product shall be, and be deemed in law to be, owned by the Employer;
- 9.3.3 not apply for or obtain registration of any domain name, trademark or design which is similar to any Intellectual Property of the Employer;
- 9.3.4 comply with all reasonable directions or instructions given to it by the Employer in relation to the form and manner of use of the Employer's Intellectual Property, including without limitation, any brand guidelines which the Employer may provide to the Service Provider from time to time;
- 9.3.5 ensure that its employees, directors, members and contractors comply strictly with the provisions of clauses 9.3.1 to 9.3.3 above, unless the Employer expressly agrees thereto in writing after obtaining due internal authority.
- 9.4 The Service Provider represents and warrants to the Employer that, in providing goods, services or both, as the case may be, for the duration of the contract, it will not infringe or make unauthorised use of the Intellectual Property rights of any third party and hereby indemnifies the Employer from any claims, liability, loss, damages, costs, and expenses arising from the infringement or unauthorised use by the Service Provider of any third party's Intellectual Property rights.
- 9.5 In the event that the contract is cancelled, terminated, ended or is declared void, any and all of the Employer's Intellectual Property, and any and all information and data related thereto, shall be immediately handed over to the Employer by the Service Provider and no copies thereof shall be retained by the Service Provider unless the Employer expressly and in writing, after obtaining due internal authority, agrees otherwise.
- 9.6 Copyright of all documents prepared for the project, and the patent rights or ownership in any plant, machine, item, system or process designed or devised, shall be vested with the Employer. Where copyright is vested in the Service Provider, the Employer shall be entitled to use the documents or copy them only for the purposes for which they are intended in regard to the Project and need not obtain the Service Provider's permission to copy for such use. Where copyright is vested in the Employer, the Service Provider shall not be liable in any way for the use of any of the information other than as originally intended for the Project and the Employer hereby indemnifies the Service Provider against any claim which may be made against him by any party arising from the use of such documentation for other purposes.
- 9.7 The ownership of data and factual information collected by the Service Provider and paid for by the Employer shall, after payment by the Employer, lie with the Employer.
- 9.8 The Employer shall have no right to use any documents prepared by the Service Provider whilst the payment of any fees and expenses due to the Service Provider in terms of the Contract is overdue.

**Clause 11.1:**

*Add the following:*

A Service Provider may not sub-contract any work which he has the skill and competency to perform, unless he has the Employer's prior approval in writing.

**Clause 12.1.2:**

*Add the following:*

Interim settlement of disputes is to be by mediation.

**Clause 12.2.1:**

*Add the following:*

In the event that the parties fail to agree on a mediator, the mediator is nominated by the Association of Arbitrators Southern Africa.

**Clause 12.2.4:**

*Add the following:*

Final settlement is by litigation.

**Clause 12.3.3:**

In the event that the parties fail to agree on an adjudicator, the adjudicator is nominated by the Association of Arbitrators Southern Africa.

**Clause 13.1:**

*Add the following clause after Clause 13.1.3:*

13.1.4 The Employer and the Service Provider shall enter into an agreement to complete the Services required for the Project in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations, 2014 promulgated thereunder.

An agreement is included in the Contract Document (C1.3 of Contract Data) and shall be completed and submitted to the Employer together with a letter of good standing from the Compensation Commissioner (if not insured with a licenced compensation insurer) within fourteen (14) days of the Start Date. The Service Provider shall ensure that any letter of good standing shall be timeously renewed in order that it remains in full force for the duration of the Contract.

**Clause 13.4:**

*Delete the content of this clause and replace with the following:*

Notwithstanding the terms of the Prescription Act No. 68 of 1969 (as amended) or any other applicable statute of limitation neither the Employer nor the Service Provider shall be held liable for any loss or damage resulting from any occurrence unless a claim is formally made within a liability period of five years, which period shall commence on the earlier of:

- (a) Final completion of the construction contract.
- (b) Suspension, postponement, expiry or termination of all construction contracts.
- (c) Cancellation or termination of this Framework Contract.

**Clause 13.7.3:**

*Add the following clause after Clause 13.7.2:*

13.7.3 The Service Provider hereby indemnifies the Employer against all claims by third parties which arise out of or in connection with the Services rendered under this Contract and where such claims are the consequence of breach by the Service Provider to exercise reasonable professional skill, care and diligence in the exercising of its obligations.

**Clause 14.5:**

*Add the following new clause after Clauses 14.4:*

**Clause 14.5: Tax Invoices**

Section 20(1) of the Value Added Tax Act No. 89 of 1991 requires that a supplier (person supplying goods or services) who is registered as a VAT vendor issue to the recipient a tax invoice within 21 days of the date of a supply whether requested or not.

The Service Provider shall provide a tax invoice (VAT invoice) which shall be included with each account delivered to the Employer in terms of Clause 14. Failure by the Service Provider to provide a tax invoice (VAT invoice) timeously may delay payment by the Employer and no interest shall accrue.

**Clause 14.6: More frequent payments**

The Service Provider may submit a fully motivated application regarding more frequent payments to the Employer's Project Manager to be submitted to the Employer for consideration. Requests for more frequent payments will be considered at the sole discretion of the Employer and is not a right in terms of this contract.

**Clause 15:**

*Add the following:*

The interest rate will be the prime interest rate of the Employer's Bank at the time the amount is due.

*Additional Clause:*

**Clause 16: Periodic review**

- 16.1 This Agreement is valid from the Start Date outlined herein and is valid for the duration of the Framework Contract Period. This Agreement shall be reviewed once every three years; however, in lieu of a review during any period specified, the current Agreement will remain in effect. The Employer reserves the right to reduce or increase the Scope of Work according to the dictates of the budget, to terminate this contract, and/or to review and terminate this contract as is contemplated in Section 116(1)(b)(iii) of the Local Government: Municipal Finance Management Act 56 of 2003, without adjustment to the agreed rates, sums or fees and without payment of any penalty or surcharge in this regard. The Service Provider shall however be entitled to pro-rata payment for all services carried out in terms of any adjustment to the Scope of Work or, in the case of termination, payment for services delivered.

## PROCEDURES FOR THE ALLOCATION OF WORKS PROJECTS

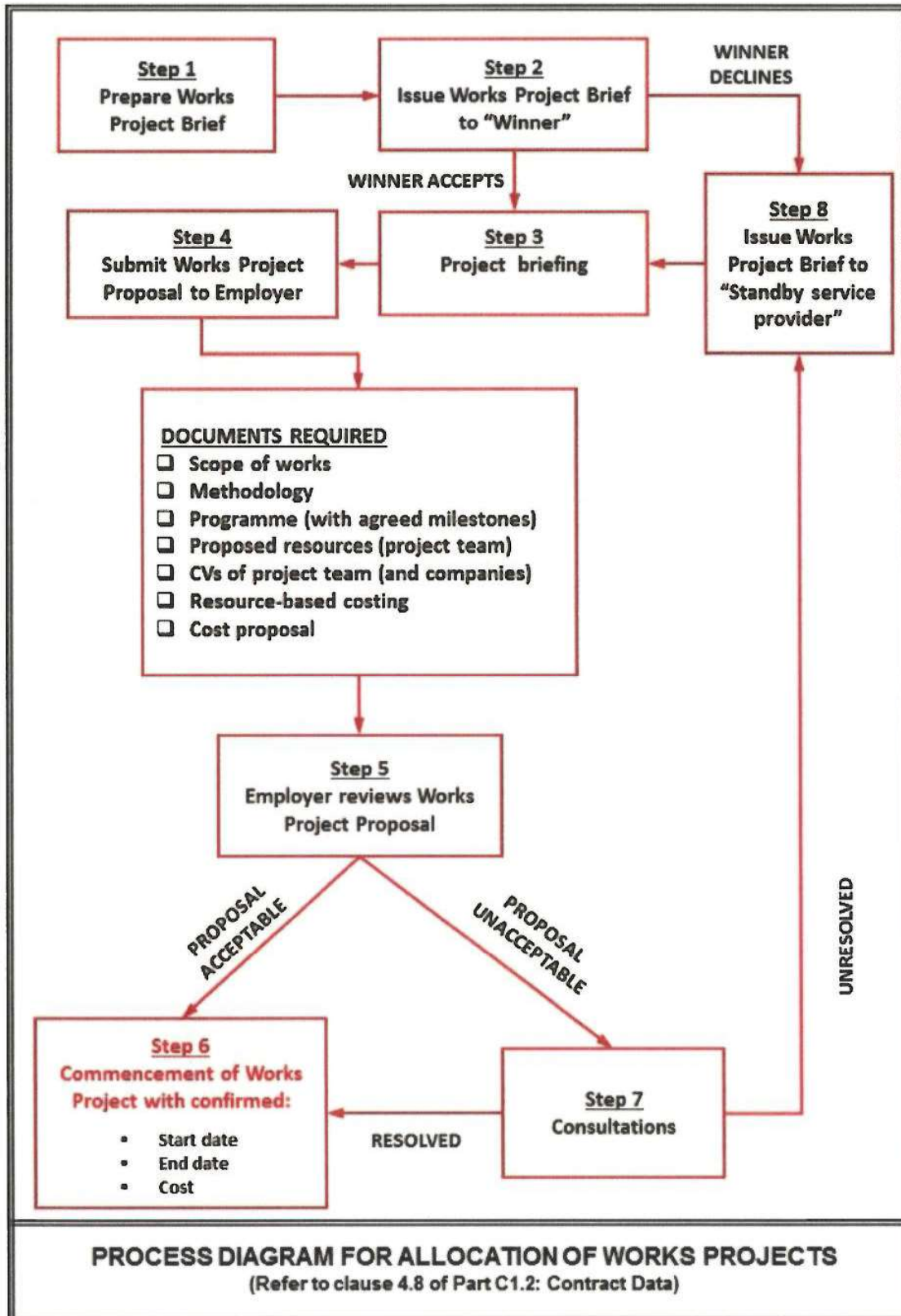
The procedures for the allocation of Works Projects, given below, are to be read in conjunction with Clause 4.8 in the Contract Data and the Process Diagram for Allocation of Works Projects below. These procedures include the development of a Works Project Brief, applying the tendered rates in order to arrive at a quote and compiling a preliminary programme and scope of works from the Service Provider.

The procedures are summarised under the steps below:

- Step 1 The Employer's Framework Contract Manager together with the Employer's Project Manager for the project compiles a Works Project Brief and any terms and conditions associated for a particular works project. This Works Project Brief outlines the broad details of the project and includes, but is not limited to:
- Reference drawings, plans and other information.
  - Time frames/milestones and a required completion date.
- Step 2 The Employer issues the Works Project Brief to the designated representative of the "Winner". If, at this stage the "Winner" declines the work, the Employer reserves the right to consider the "Standby Service Provider 1" for this particular works project.
- Step 3 If the "Winner" accepts the work, a project briefing session/site meeting is organised.
- Step 4 After the project briefing session/site meeting, the Service Provider will provide the Employer with an estimated cost for the preparation of a Works Project proposal. Once accepted/acknowledged, the "Winner"/"Standby Service Provider" prepares and submits a Works Project Proposal (within the specified time) for approval by the Employer which includes the following documents:
- i) The Scope of the works;
  - ii) A methodology - extent of methodology required will be dependent on scope of work (as advised by Employer);
  - iii) A programme of the work;
  - iv) Agreed time frames/milestones;
  - v) Proposed resources (project team);
  - vi) A list of CVs for each of the project team members, their company's name and the company's BBBEE status level;
  - vii) Resource-based costing; (ie. tasks, staff allocation, hours and rates)
  - viii) A cost proposal which includes the cost of any associated fees and services and an estimated cost of construction (where applicable).
- Step 5 Following submission of these documents, the Employer will review the Works Project proposal.
- Step 6 If the Works Project proposal is satisfactory, the Employer will notify the "Winner" in writing to commence with the work. The Employer will confirm the start and end date for the Works Project and the associated cost. All work undertaken on the Works Project, prior to this approval, will be at the Service Provider's cost.
- Step 7 If the Employer is not satisfied with the Works Project proposal, consultations will proceed between both parties (Employer and "Winner").
- If consultations are resolved, the Works Project proposal must be revised by the "Winner" and submitted to the Employer for final approval. On approval, the Employer will then inform the "Winner" in writing to commence with the work as for Step 6 above.
  - If consultations are unresolved, the Employer reserves the right to consider appointing "Standby Service Provider 1". The Employer will inform the "Winner" in writing, giving reasons for the decision.

**PROCEDURES FOR THE ALLOCATION OF WORKS PROJECTS (CONTINUED)**

- Step 8      The Employer will issue the Works Project Brief to the "Standby Service Provider 1".
- If, at this stage the "Standby Service Provider 1" declines the work, the Employer reserves the right to consider appointing "Standby Service Provider 2" or an alternative procurement method for this particular works project.
  - If the "Standby Service Provider 1" accepts the work, a Works Project Proposal will be submitted as per Step 4 above then Step 9 below.
- Step 9      Following submission of the documents, the Employer will review the Works Project Proposal from "Standby Service Provider 1".
- Step 10      If the Works Project proposal is satisfactory, the Employer will notify the "Standby Service Provider 1" in writing to commence with the work. The Employer will confirm the start and end date for the Works Project and the associated cost. All work undertaken prior to this approval will be at the Service Provider's cost.
- Step 11      If the Employer is not satisfied with the Works Project proposal, consultations will proceed between both parties (Employer and "Standby Service Provider 1").
- If consultations are resolved, the Works Project proposal must be revised by the "Standby Service Provider 1" and submitted to the Employer for final approval. The Employer will then inform the "Standby Service Provider 1" in writing to commence with the work as for Step 10 above.
  - If consultations are unresolved, the Employer reserves the right to consider appointing "Standby Service Provider 2" or an alternative procurement method for this particular works project. The Employer will then inform the "Standby Service Provider 1" in writing, giving reasons for the decision.
- Step 12      Proceed to Step 8 and repeat Steps 8, 9, 10 and 11 with "Standby Service Provider 2"



CITY OF CAPE TOWN

WATER AND SANITATION

CONTRACT NO. 194C/2020/21

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

### C1.3 Occupational Health and Safety Agreement

AGREEMENT MADE AND ENTERED INTO BETWEEN THE CITY OF CAPE TOWN (HEREINAFTER CALLED THE "EMPLOYER") AND

.....  
(Service Provider/Mandatar/Company/CC Name)

IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 85 OF 1993 AS AMENDED.

I, ....., representing

....., as an employer  
in its own right, do hereby undertake to ensure, as far as is reasonably practicable, that all work will be performed, and all equipment, machinery or plant used in such a manner as to comply with the provisions of the Occupational Health and Safety Act (OHSA) and the Regulations promulgated thereunder.

I furthermore confirm that I am/we are registered with the Compensation Commissioner and that all registration and assessment monies due to the Compensation Commissioner have been fully paid or that I/We are insured with an approved licensed compensation insurer.

COVID ACT Registration Number: .....

OR Compensation Insurer: ..... Policy No.: .....

I undertake to appoint, where required, suitable competent persons, in writing, in terms of the requirements of OHSA and the Regulations and to charge him/them with the duty of ensuring that the provisions of OHSA and Regulations as well as the Council's Special Conditions of Contract, Way Leave, Lock-Out and Work Permit Procedures are adhered to as far as reasonably practicable.

I further undertake to ensure that any subcontractors employed by me will enter into an occupational health and safety agreement separately, and that such subcontractors comply with the conditions set.

I hereby declare that I have read and understand the appended Occupational Health and Safety Conditions and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan.

Signed at Bellville on the 11 day of October 2021

Witness

Signed at ..... on the ..... day of ..... 2021

Witness

for and on behalf of  
City of Cape Town



# labour

Department:  
Labour  
REPUBLIC OF SOUTH AFRICA



2020005289

CALL CENTER NO: 0860 105 350

REG NO  
FAX NO  
ISSUE DATE  
CERTIFICATE NO

## LETTER OF GOOD STANDING

### COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT 130 of 1993 (AS AMENDED).

With reference to sections 80, 82, 86 and 89 of Compensation for Occupational Injuries and Diseases Act 130 of 1993 (As amended), I hereby certify that:

has complied with the requirement of the above Act and is at present in good standing with the Compensation Fund.

Nature of business :

Expiry date :

### IMPORTANT NOTICE:

Any fraudulently obtained Letter of Good Standing shall constitute a criminal offence.

The Compensation Commissioner shall institute criminal proceedings against any perpetrators who unlawfully alter or deface this letter with intend to defraud or misrepresent facts contained therein.

**PLEASE**, use the Below link (Website Address) to check if the Letter of Good Standing is valid:  
<https://cfonline.labour.gov.za/VerifyLOGS>

Yours faithfully

COMPENSATION COMMISSIONER

W.As. 48

Compensation House, Cnr Hamilton and Soutpansberg Road, PO Box 955, Pretoria, 0001 Fax:(012)357-1817 Website:<http://www.labour.gov.za>



CITY OF CAPE TOWN

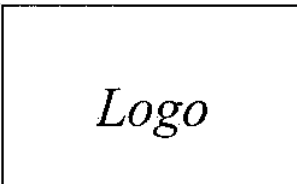
WATER AND SANITATION

CONTRACT NO. 194C/2020/21

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

## C1.4 Insurance Broker's Warranty

Pro Forma



*Letterhead of Contractor's Insurance Broker*

Date \_\_\_\_\_

CITY OF CAPE TOWN  
City Manager  
Civic Centre  
12 Hertzog Boulevard  
Cape Town  
8000

Dear Sir

CONTRACT NO.: 194C/2020/21

CONTRACT TITLE: TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

NAME OF CONTRACTOR: \_\_\_\_\_

I, the undersigned, do hereby confirm and warrant that all the insurances required in terms of the abovementioned contract have been issued and/or in the case of blanket/umbrella policies, have been endorsed to reflect the interests of the CITY OF CAPE TOWN with regard to the abovementioned contract, and that all the insurances and endorsements, etc., are all in accordance with the requirements of the contract.

I furthermore confirm that all premiums in the above regard have been paid.

Yours faithfully

Signed: \_\_\_\_\_

For: \_\_\_\_\_





Date : 4 October 2021

CITY OF CAPE TOWN  
City Manager  
Civic Centre  
L2 Hertzog Boulevard  
Cape Town  
8000

Dear Sir/Madam

NAME OF CONTRACTOR :



Contract title:

Term tender for the provision of multidisciplinary professional services for the water and sanitation department of the city of Cape Town.

Contract Number:

194C/2020/21

#### Professional Indemnity Insurance

I, the undersigned, do hereby confirm and warrant that all the professional liability/indemnity insurances required in terms of the abovementioned contract have been issued and/or in the case of blanket/umbrella policies, have been endorsed to reflect the interests of the CITY OF CAPE TOWN with regard to the abovementioned contract, and that all the insurances and endorsements, etc, are all in accordance with the requirements of the contract.

We confirm that the premium has been paid and that the policy is currently in full force and effect.

Yours faithfully



Business Unit Manager - Specialty  
Professional Risks



Aon South Africa (Pty) Ltd

The Place, 1 Sandton Drive, Sandhurst, Sandton, South Africa | P O Box 78367, Sandton, 2146

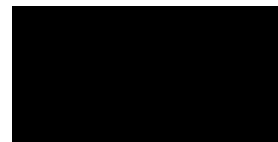
Share Call: 0860 100 404 | International: +27 11 944 7000 | [www.aon.co.za](http://www.aon.co.za)

Registration Number 1978/004501/07 | VAT Number 4320101498 | Authorised Financial Services Provider Licence 20555

Directors: T Williams (CEO), N Bruwer (CFO), V Mahlangu<sup>1</sup>, Dr NT Magau<sup>1</sup>, MM Mhlathi (née Maponya)<sup>1</sup>,

Company Secretary: T Prozzi

<sup>1</sup>Non-Executive



Date : 21 May 2021

**TO WHOM IT MAY CONCERN**

Dear Sir/Madam

**PROFESSIONAL INDEMNITY INSURANCE**

This letter serves to confirm that we have placed a Professional Indemnity Insurance Policy on behalf of the above-mentioned client.

Briefly, we can confirm that the client has the following:-

**Professional Indemnity Insurance**

Limit of Indemnity : [REDACTED] each and every claim

**Public Liability & Third Party Insurance**

Limit of Indemnity : [REDACTED] each and every claim

Period of Insurance : [REDACTED] (both days inclusive)

Renewal Date : [REDACTED]

Insurers : [REDACTED]

Policy number : [REDACTED]

We confirm that the policy is currently in full force and effect and is subject to the terms, subjectivities, conditions and exclusions of the policy wording.

Yours faithfully

[REDACTED]

[REDACTED] | **LIISA** | Business Unit Manager – Professional Risks  
Commercial Risk Solutions  
**Aon South Africa (Pty) Ltd**

[REDACTED]

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## Part C2: Pricing Data

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**TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN**

## **C2.1 Pricing Assumptions**

Pricing Assumptions mean the criteria as set out below, read together with all Parts of this contract document, which it will be assumed in the contract, that the tenderer has taken into account when developing his prices.

1. The short descriptions given in the Schedules of Rates below are brief descriptions used to identify the activities for which prices are required. Typical Works Projects, for which rates are required, are contained in the Part C3.1: Scope of Work.
2. While it is entirely at the tenderer's discretion as regards pricing the Schedules of Rates below, tariffs of fees or indicative time based fee rates are gazetted from time to time by the built environment professional bodies. These are useful documents that will give tenderers some idea of industry norms against which they may compare their rates, sums and/or prices as applicable. Where applicable, tenderers must take into account the possible project types when pricing the Schedules of Rates.

The tenderer's attention is drawn to the Municipal Cost Containment Regulations, 2019 (published in Government Gazette on 7 June 2019). Rates tendered must not exceed rates:

- (a) set out in the "Guide on Hourly Fee Rates for Consultants" issued by the Department of Public Service and Administration (DPSA rates); and
- (b) as prescribed by the body regulating the profession of the consultant.

3. For the purpose of the Schedules of Rates, the following words shall have the meanings hereby assigned to them:

Unit: The unit of measurement for each item of work.

Tendered Rate: The agreed payment per unit of measurement.

Tendered Percentage: Service Provider's percentage mark-up.

4. The rates (excluding VAT) in the Schedules of Rates are to be fully inclusive rates for the work described under the several items. Such rates are to cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. The rates shall also include for all payments to administrative, clerical and secretarial staff used to support professional and technical staff.
5. Where a local office is required to be established by the Service Provider (in terms of clause 3.5 in C1.2: Contract Data), these establishment and operational costs must be included in the tendered time-based rates. These tendered rates shall also include any travel, accommodation, subsistence allowances, etc. paid by the Service Provider to his employees or sub-consultants for the duration of the local office establishment (see item 19 below) in fulfillment of the Contract.
6. A rate or percentage is to be entered against each item in the Schedules of Rates for the branches tendered for. If a nil rate (i.e. "nil" or "0.00") is entered against an item, it will be considered that there is no charge for that particular item. An item against which no rate (or rates, in the case of rate categories if provided) is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word "included" or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item.

The tenderer may be requested to clarify nil rates, or items regarded as having nil rates, and the Employer may also perform a risk analysis with regard to the reasonableness of such rates.

7. The tenderer may not group a number of items together and tender one lump sum for such group of items.
8. Tenderers are only to price their Branches of Preference as they have indicated on Returnable Schedule 26, in accordance with clauses C.1.6.1 and C.2.10.5 in Part T1.2 Tender Data.

9. There are no quantities applicable to the tender during the tender submission stage. The rates provided in the Schedules of Rates shall be used in representative Works Projects for tender evaluation purposes in accordance with clause C.3.11.1 in Part T1.2: Tender Data.
10. Tenderers shall provide rates and mark-up percentages (excluding VAT) for each required rate for each item specified in every schedule in the Schedules of Rates applicable to the branch(es) tendered for (refer to clause C.2.10.5 in Part T1.2: Tender Data).
11. The procedures for the allocation of Works Projects are specified in Part C1.2: Contract Data (refer to clause 4.8).
12. All rates (except for travel expenses – see Item 18 below) shall be adjusted in terms of clause 3.16 of the Standard Professional Services Contract.
13. A higher category person undertaking lower category work will be reimbursed, in respect of time-based fees, at the lower category rate.
14. Tenderers are to note that only those recoverable expenses listed in the Schedules of Rates will be reimbursed to the Service Provider. No reimbursement of costs for subsistence, typing, printing/copying (other than reports and/or tender documents), communications or computer hardware and/or software will be made and these costs will be deemed to be included in tendered rates.
15. Payment will only be made for copies of reports and drawings when requested by the Employer, and all drafts shall be for the Service Provider's account.
16. Full time construction monitoring staff shall be reimbursed for travelling expenses, for either the return office to site or return home to site journeys, whichever is the lesser. Part time construction monitoring staff shall be reimbursed for either the return office to site or return alternate site to site journeys, whichever is the lesser. Construction monitoring staff engaged in work outside of normal working hours shall be reimbursed for the return home to site journey. Staff other than construction monitoring staff shall be reimbursed for all travelling expenses at the appropriate rate.
17. Unless otherwise agreed with the Employer, any air travel will be for the Service Provider's account.
18. The per kilometre rate for the reimbursement of travel expenses shall be limited to the ad-hoc duty transportation allowance for the Employer's own staff as adjusted from time to time. This rate is currently R 3.98/km (excluding VAT). The Service Provider must obtain the Employer's prior approval before using a 4 x 4 vehicle for any site journeys. The rate for using a 4 x 4 vehicle is currently R 5.94/km (excluding VAT), and will be adjusted pro rata to the ad-hoc duty transport allowance for the Employer's own staff.
19. Travel time and all associated travel costs from the local office, as required in fulfillment of a works project, will be reimbursable. Travel time and all associated travel costs from outside the local office area to the local office (eg. air travel) will not be reimbursable.
20. Where fractions of a cent occur in calculations of prices and amounts, they shall be rounded up/down to the nearest whole cent.
21. Clause C.2.13.11(c) in Part T1.2: Tender Data shall be applicable to the submission of Schedules of Rates which have been priced electronically, and which the tenderer wishes to submit as a printed version with his/her tender in the place of a handwritten priced Schedules of Rates.  
  
If there is found to be any variance between the printed version and the original issued document, the original shall stand. However, where Addenda have been issued which amend the Schedules of Rates, then the printed Schedules of Rates shall take these into account.  
  
The pages of the issued Schedules of Rates should not be removed from the tender document.
22. Timesheets, drawn from the Service Providers' financial system, are to be submitted with each invoice to confirm the actual hours worked for each task.
23. The Service Provider will be reimbursed for the cost of preparing a Works Project proposal.
24. The payment for Construction Monitoring levels 1 and 2 will be paid at the appropriate Category rate for the particular discipline as tendered for, Stages 5 and 6 and Additional Services.

CITY OF CAPE TOWN

WATER AND SANITATION

CONTRACT NO. 194C/2020/21

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

## C2.2 Schedules of Rates

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## SCHEDULE NO. 5: WASTEWATER TREATMENT BRANCH

The following Notes (W1 to W19) are applicable to the Wastewater Treatment Branch only:

**Note W1: Project Managers:** Category A: The required personnel must be a professionally registered (PrCPM or PMP or other proven equivalent registration) with over 20 (twenty) years of experience in project management. The Project Manager's expertise and experience must be nationally recognised and must provide advice at a level of specialisation where such advice is recognized as that of an expert in the area of project management.

Category B: The required personnel must be a professionally registered (PrCPM or PMP or other proven equivalent registration) with at least 10 (ten) years verifiable postgraduate experience in the project management of all works related to all types of construction works. The Project Manager is a person who bears the risk of the business or who takes responsibility for the projects and related liabilities of the practice and where his level of expertise and relevant experience is commensurate with the position and provides strategic guidance in planning and executing a project.

Category C: The required personnel must be a professionally registered (PrCPM or PMP or other proven equivalent registration) with at least 5 (five) years verifiable postgraduate experience in the project management of various types of similar works.

Category D: Need not be professionally registered and can be an Engineer, Technologist or Technician involved in project management of various types of works.

**Note W2: Construction Health and Safety Services:** The required personnel must be registered with the South African Council for the Project and Construction Management Professions (SACPCMP).

**Professional Construction Health and Safety Agent:** must be a professionally registered Construction Health and Safety Agent (PrCHSA).

**Construction Health and Safety Manager:** must be a registered Construction Health and Safety Manager (CHSM).

**Construction Health and Safety Officer:** must be a registered Construction Health and Safety Officer (CHSO).

**Note W3: Environmental Assessment Practitioner:** The required personnel must be registered with the Environmental Assessment Practitioner's Association of South Africa (EAPASA) or must meet the criteria for registration (and has applied for registration) with the Environmental Assessment Practitioner's Association of South Africa (EAPASA). The EAP must have at least 8 (eight) years verifiable experience in the undertaking of all environmental works related to all types of construction work similar to those listed in the Typical Works Projects lists. The EAP must have acted in a lead role in at least (2) two Full Scoping/Environmental Impact Assessment (EIA) reports and at least (5) five Basic Assessments of a project or type relevant to the Typical Works Projects list.

**Note W4: Environmental Control Officer:** The required personnel must have a relevant tertiary qualification and at least 3 (three) years verifiable experience of all works related to all types of construction works similar to those listed in Typical Works Projects lists.

**Note W5: Public Participation Practitioner (Lead):** The required personnel will be required to assist with Environmental Impact Assessments and must have at least 3 (three) years' experience in similar activities.

**Note W6: Environmental Auditor:** The required personnel must have an environmental auditing qualification and at least 3 (three) years' experience as a lead environmental auditor.

**Note W7: Heritage Assessment Practitioner:** The required personnel must have a postgraduate qualification in a heritage related field and at least 4 (four) years verifiable appropriate experience in heritage management issues likely to be encountered in all works similar to those listed in Typical Works Projects lists.

**Note W8: Freshwater ecologist:** The required personnel must be a registered professional with the South African Council for Natural Scientific Professions (SACNASP or other proven equivalent registration), with at least 8 (eight) years verifiable postgraduate experience in this specialised field and specifically providing aquatic ecological advisory services and undertaking all work necessary to acquire the authorisations (including General Authorisations or Water Use Licences) or permits required in terms of the National Water Act No. 36 of 1998.

- Note W9: **Environmental Specialist (e.g. botanist, horticulturist, marine biologist, etc.):** The required personnel must be appropriately qualified and have a minimum of 8 (eight) years verifiable experience in the specialised field, 5 (five) of which must be proven and appropriate experience of local conditions relating to projects as stated in the Scope of Work.
- Note W10: **Dam Safety specialist:** The required personnel must be a professionally registered Civil Engineer or Civil Engineering Technologist (PrEng or PrTechEng or other proven equivalent registration) with at least 8 (eight) years verifiable postgraduate experience and must be registered as an Approved Professional Person with the Department of Water and Sanitation.
- Note W11: **Energy Optimisation specialist:** The required personnel must be professionally registered with a recognized body and have at least 10 years' verifiable postgraduate experience in the design of energy optimization systems incorporating new technologies
- Note W12: **Fire Services specialist:** The required personnel must be registered with the Engineering Council of South Africa (ECSA) and have at least 8 (eight) years verifiable postgraduate experience, 3 (three) of which must be experience in the design, installation, testing and inspections of fire protection, detection, smoke extraction and suppression systems and who will be responsible for all fire services work required for each Works Project.
- Note W13: **Geotechnical specialist:** The required personnel must be a professionally registered Civil Engineer or Civil Engineering Technologist (PrEng or PrTechEng or other proven equivalent registration) with at least 8 (eight) years verifiable postgraduate experience and must have a postgraduate qualification in the specialised field.
- Note W14: **Hazardous Substance Management specialist (Major Hazardous Installations, working with hazardous materials):** The required personnel must be a qualified Chemical or Process Engineer with at least 8 (eight) years proven experience in this specialised field and must be: (i) accredited by the South African National Accreditation System (SANAS) in accordance with ISO/IEC 17020:2012; and (ii) approved by, or registered with, the Department of Labour as an Approved Inspection Authority (Type A) to conduct Major Hazardous Installations audits/inspections.
- Note W15: **Hydraulic Engineer "B":** The required personnel must be a registered professional Civil Engineer or professional Civil Engineering Technologist (PrEng or PrTechEng or other proven equivalent registration), with at least 8 (eight) years postgraduate experience in the design of large diameter pipelines and in surge analyses and must have undertaken, and taken responsibility for, the design of a minimum of 5 (five) pipeline projects with a diameter larger than 300 mm.
- Note W16: **Process Design Engineer "D":** The required personnel must be a registered professional Civil or Chemical Engineer (PrEng) or professional Civil or Chemical Engineer Technologist (PrTechEng) or other proven equivalent registration and have experience in the analyses and design of Wastewater Treatment Plants (10Mt/day or larger), and has either:  
(i) a Postgraduate qualification in Wastewater Treatment with a minimum of 8 (eight) years verifiable experience in the analyses and design of Wastewater Treatment Plants, 5 (five) of which must be post Postgraduate experience, or  
(ii) 20 (twenty) years verifiable experience in the analyses and design of Wastewater Treatment Plants.
- Note W17: **Process Design Engineer "E":** In addition to the requirements for Process Design Engineer "D", the required personnel must have a minimum of three years of verifiable experience in **advanced wastewater treatment processes** (e.g. Tertiary treatment processes such as MBR, biological nutrient removal). This experience can run concurrently with the verifiable years of experience as required in terms of the requirements (i) and (ii) for Process Design Engineer "D".
- Note W18: **Water Use Authorisation specialist:** The required personnel must be appropriately qualified and professionally registered in the applicable field and have at least 8 (eight) years proven experience in the specialist field.
- Note W19: **Training Supervisor:** Refer to sub-clause 5.2.1.3, Training of Personnel in C3.1: Scope of Work.

**5.1: PLANNING, STUDIES, INVESTIGATIONS, ASSESSMENTS AND ADDITIONAL SERVICES**

Time-based fees for Planning, Studies, Investigations, Assessments and Additional Services as described in the Scope of Work for the following disciplines:

| Item No. | Activity Description                   | Unit | Tendered Rate |
|----------|----------------------------------------|------|---------------|
|          | <b>CIVIL ENGINEERING SERVICES</b>      |      |               |
| 5.1.1.   | Category A                             | Hour | 0.00          |
| 5.1.2.   | Category B                             | Hour | 1 218.00      |
| 5.1.3.   | Category C                             | Hour | 742.00        |
| 5.1.4.   | Category D                             | Hour | 385.00        |
|          | <b>STRUCTURAL ENGINEERING SERVICES</b> |      |               |
| 5.1.5.   | Category A                             | Hour | 0.00          |
| 5.1.6.   | Category B                             | Hour | 1 081.00      |
| 5.1.7.   | Category C                             | Hour | 750.00        |
| 5.1.8.   | Category D                             | Hour | 348.00        |
|          | <b>MECHANICAL ENGINEERING SERVICES</b> |      |               |
| 5.1.9.   | Category A                             | Hour | 0.00          |
| 5.1.10.  | Category B                             | Hour | 1 400.00      |
| 5.1.11.  | Category C                             | Hour | 980.00        |
| 5.1.12.  | Category D                             | Hour | 550.00        |
|          | <b>ELECTRICAL ENGINEERING SERVICES</b> |      |               |
| 5.1.13.  | Category A                             | Hour | 0.00          |
| 5.1.14.  | Category B                             | Hour | 910.00        |
| 5.1.15.  | Category C                             | Hour | 780.00        |
| 5.1.16.  | Category D                             | Hour | 348.00        |
|          | <b>ELECTRONIC ENGINEERING SERVICES</b> |      |               |
| 5.1.17.  | Category A                             | Hour | 0.00          |
| 5.1.18.  | Category B                             | Hour | 1 295.00      |
| 5.1.19.  | Category C                             | Hour | 1 005.00      |
| 5.1.20.  | Category D                             | Hour | 745.00        |

|          |                                                                                                                                                                           |      | Negotiated Rate |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|
| Item No. | Activity Description                                                                                                                                                      | Unit | Tendered Rate   |
|          | <b>QUANTITY SURVEYING SERVICES</b>                                                                                                                                        |      |                 |
| 5.1.21.  | Registered Professional Principals (Specialist)                                                                                                                           | Hour | 1 250.00        |
| 5.1.22.  | Registered Professional Principals (> 10 years experience)                                                                                                                | Hour | 1 250.00        |
| 5.1.23.  | Registered Professional Principals (5 – 10 years experience)                                                                                                              | Hour | 800.00          |
| 5.1.24.  | Registered Professional Principals (< 5 years experience)                                                                                                                 | Hour | 665.00          |
| 5.1.25.  | Salaried Personnel                                                                                                                                                        | Hour | 450.00          |
|          | <b>ARCHITECTURAL SERVICES</b>                                                                                                                                             |      |                 |
| 5.1.26.  | Principal (Specialist)                                                                                                                                                    | Hour | 1 520.00        |
| 5.1.27.  | Principal (>10 years experience)                                                                                                                                          | Hour | 1 225.00        |
| 5.1.28.  | Principal (<10 years experience)                                                                                                                                          | Hour | 995.00          |
| 5.1.29.  | Salaried staff (Associates and Managers)                                                                                                                                  | Hour | 800.00          |
| 5.1.30.  | Salaried Staff (Registered architectural professionals performing work of an architectural nature and carrying direct responsibility for activities related to a project) | Hour | 750.00          |
| 5.1.31.  | Salaried Staff (Registered architectural professionals performing work of an architectural nature under direction and control)                                            | Hour | 535.00          |
| 5.1.32.  | Salaried Staff (Staff performing work of an architectural nature and/or to support architectural work outputs under direction and control)                                | Hour | 410.00          |
|          | <b>PROJECT MANAGEMENT SERVICES</b>                                                                                                                                        |      |                 |
| 5.1.33.  | Category A (Note W1)                                                                                                                                                      | Hour | 0.00            |
| 5.1.34.  | Category B (Note W1)                                                                                                                                                      | Hour | 1 364.00        |
| 5.1.35.  | Category C (Note W1)                                                                                                                                                      | Hour | 792.00          |
| 5.1.36.  | Category D (Note W1)                                                                                                                                                      | Hour | 419.00          |
|          | <b>CONSTRUCTION HEALTH AND SAFETY SERVICES</b>                                                                                                                            |      |                 |
| 5.1.37.  | Professional Construction Health and Safety Agent (Note W2)                                                                                                               | Hour | 850.00          |
| 5.1.38.  | Construction Health and Safety Manager (Note W2)                                                                                                                          | Hour | 0.00            |
| 5.1.39.  | Construction Health and Safety Officer (Note W2)                                                                                                                          | Hour | 0.00            |

| Item No. | Activity Description                                                                                                                                  | Unit | Tendered Rate |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|
|          | <b>ENVIRONMENTAL AND HERITAGE SERVICES</b>                                                                                                            |      |               |
| 5.1.40.  | Environmental Assessment Practitioner (Note W3)                                                                                                       | Hour | 604.00        |
| 5.1.41.  | Environmental Assessment Practitioner Assistant                                                                                                       | Hour | 314.00        |
| 5.1.42.  | Environmental Control Officer (Note W4)                                                                                                               | Hour | 0.00          |
| 5.1.43.  | Public Participation Practitioner (Lead) (Note W5)                                                                                                    | Hour | 800.00        |
| 5.1.44.  | Public Participation Practitioner (Administrative assistant)                                                                                          | Hour | 300.00        |
| 5.1.45.  | Environmental Auditor (Note W6)                                                                                                                       | Hour | 500.00        |
| 5.1.46.  | Heritage Assessment Practitioner (Note W7)                                                                                                            | Hour | 950.00        |
| 5.1.47.  | Heritage Assessment Practitioner Assistant                                                                                                            | Hour | 600.00        |
| 5.1.48.  | Freshwater Ecologist (Note W8)                                                                                                                        | Hour | 950.00        |
| 5.1.49.  | Environmental Specialist (e.g. botanist, horticulturist, marine biologist, etc.) (Note W9)                                                            | Hour | 900.00        |
|          | <b>LANDSCAPE ARCHITECTURAL SERVICES</b>                                                                                                               |      |               |
| 5.1.50.  | Registered Professional Principal Landscape Architect (minimum 8 years' experience)                                                                   | Hour | 800.00        |
| 5.1.51.  | Staff performing work of a landscape architectural nature and carrying direct responsibility for one or more specific activities related to a project | Hour | 400.00        |

## 5.2: NORMAL SERVICES AND ADDITIONAL SERVICES (STAGES 1 TO 4)

Time-based fees for Normal Services Stages 1 to 4 and Additional Services as described in the Scope of Work for the following disciplines:

|          |                                        |      | Negotiated Rate |
|----------|----------------------------------------|------|-----------------|
| Item No. | Activity Description                   | Unit | Tendered Rate   |
|          | <b>CIVIL ENGINEERING SERVICES</b>      |      |                 |
| 5.2.1.   | Category A                             | Hour | 0.00            |
| 5.2.2.   | Category B                             | Hour | 1 082.00        |
| 5.2.3.   | Category C                             | Hour | 666.00          |
| 5.2.4.   | Category D                             | Hour | 365.00          |
|          | <b>STRUCTURAL ENGINEERING SERVICES</b> |      |                 |
| 5.2.5.   | Category A                             | Hour | 0.00            |
| 5.2.6.   | Category B                             | Hour | 1 081.00        |
| 5.2.7.   | Category C                             | Hour | 688.00          |
| 5.2.8.   | Category D                             | Hour | 365.00          |
|          | <b>MECHANICAL ENGINEERING SERVICES</b> |      |                 |
| 5.2.9.   | Category A                             | Hour | 0.00            |
| 5.2.10.  | Category B                             | Hour | 1 200.00        |
| 5.2.11.  | Category C                             | Hour | 900.00          |
| 5.2.12.  | Category D                             | Hour | 550.00          |
|          | <b>ELECTRICAL ENGINEERING SERVICES</b> |      |                 |
| 5.2.13.  | Category A                             | Hour | 0.00            |
| 5.2.14.  | Category B                             | Hour | 910.00          |
| 5.2.15.  | Category C                             | Hour | 780.00          |
| 5.2.16.  | Category D                             | Hour | 348.00          |
|          | <b>ELECTRONIC ENGINEERING SERVICES</b> |      |                 |
| 5.2.17.  | Category A                             | Hour | 0.00            |
| 5.2.18.  | Category B                             | Hour | 1 295.00        |
| 5.2.19.  | Category C                             | Hour | 1 005.00        |
| 5.2.20.  | Category D                             | Hour | 745.00          |

|          |                                                                                                                                                                           |      | Negotiated Rate |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|
| Item No. | Activity Description                                                                                                                                                      | Unit | Tendered Rate   |
|          | <b>QUANTITY SURVEYING SERVICES</b>                                                                                                                                        |      |                 |
| 5.2.21.  | Registered Professional Principals (Specialist)                                                                                                                           | Hour | 1 250.00        |
| 5.2.22.  | Registered Professional Principals (> 10 years experience)                                                                                                                | Hour | 1 250.00        |
| 5.2.23.  | Registered Professional Principals (5 – 10 years experience)                                                                                                              | Hour | 800.00          |
| 5.2.24.  | Registered Professional Principals (< 5 years experience)                                                                                                                 | Hour | 665.00          |
| 5.2.25.  | Salaried Personnel                                                                                                                                                        | Hour | 450.00          |
|          | <b>ARCHITECTURAL SERVICES</b>                                                                                                                                             |      |                 |
| 5.2.26.  | Principal (Specialist)                                                                                                                                                    | Hour | 1 520.00        |
| 5.2.27.  | Principal (>10 years experience)                                                                                                                                          | Hour | 1 225.00        |
| 5.2.28.  | Principal (<10 years experience)                                                                                                                                          | Hour | 995.00          |
| 5.2.29.  | Salaried staff (Associates and Managers)                                                                                                                                  | Hour | 800.00          |
| 5.2.30.  | Salaried Staff (Registered architectural professionals performing work of an architectural nature and carrying direct responsibility for activities related to a project) | Hour | 750.00          |
| 5.2.31.  | Salaried Staff (Registered architectural professionals performing work of an architectural nature under direction and control)                                            | Hour | 535.00          |
| 5.2.32.  | Salaried Staff (Staff performing work of an architectural nature and/or to support architectural work outputs under direction and control)                                | Hour | 410.00          |
|          | <b>PROJECT MANAGEMENT SERVICES</b>                                                                                                                                        |      |                 |
| 5.2.33.  | Category A (Note W1)                                                                                                                                                      | Hour | 0.00            |
| 5.2.34.  | Category B (Note W1)                                                                                                                                                      | Hour | 1 364.00        |
| 5.2.35.  | Category C (Note W1)                                                                                                                                                      | Hour | 773.00          |
| 5.2.36.  | Category D (Note W1)                                                                                                                                                      | Hour | 419.00          |
|          | <b>CONSTRUCTION HEALTH AND SAFETY SERVICES</b>                                                                                                                            |      |                 |
| 5.2.37.  | Professional Construction Health and Safety Agent (Note W2)                                                                                                               | Hour | 850.00          |
| 5.2.38.  | Construction Health and Safety Manager (Note W2)                                                                                                                          | Hour | 550.00          |
| 5.2.39.  | Construction Health and Safety Officer (Note W2)                                                                                                                          | Hour | 0.00            |

|          |                                                                                                                                                       |      | Negotiated Rate |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|
| Item No. | Activity Description                                                                                                                                  | Unit | Tendered Rate   |
|          | <b>ENVIRONMENTAL AND HERITAGE SERVICES</b>                                                                                                            |      |                 |
| 5.2.40.  | Environmental Assessment Practitioner (Note W3)                                                                                                       | Hour | 561.80          |
| 5.2.41.  | Environmental Assessment Practitioner Assistant                                                                                                       | Hour | 290.00          |
| 5.2.42.  | Environmental Control Officer (Note W4)                                                                                                               | Hour | 0.00            |
| 5.2.43.  | Heritage Assessment Practitioner (Note W7)                                                                                                            | Hour | 950.00          |
| 5.2.44.  | Heritage Assessment Practitioner Assistant                                                                                                            | Hour | 600.00          |
| 5.2.45.  | Freshwater Ecologist (Note W8)                                                                                                                        | Hour | 950.00          |
| 5.2.46.  | Environmental Specialist (e.g. botanist, horticulturist, marine biologist, etc.) (Note W9)                                                            | Hour | 900.00          |
|          | <b>LANDSCAPE ARCHITECTURAL SERVICES</b>                                                                                                               |      |                 |
| 5.2.47.  | Registered Professional Principal Landscape Architect (minimum 8 years' experience)                                                                   | Hour | 800.00          |
| 5.2.48.  | Staff performing work of a landscape architectural nature and carrying direct responsibility for one or more specific activities related to a project | Hour | 400.00          |

**5.3: NORMAL SERVICES AND ADDITIONAL SERVICES (STAGES 5 TO 6)**

Time-based fees for Normal Services Stages 5 to 6 and Additional Services as described in the Scope of Work for the following disciplines:

| Item No. | Activity Description                                 | Unit  | Tendered Rate |
|----------|------------------------------------------------------|-------|---------------|
|          | <b>CIVIL ENGINEERING SERVICES</b>                    |       |               |
| 5.3.1.   | Category A                                           | Hour  | 0.00          |
| 5.3.2.   | Category B                                           | Hour  | 1 082.00      |
| 5.3.3.   | Category C                                           | Hour  | 777.00        |
| 5.3.4.   | Category D                                           | Hour  | 395.00        |
| 5.3.5.   | Construction Monitoring: Level 3 - Category C person | Month | 48 000.00     |
| 5.3.6.   | Construction Monitoring: Level 3 - Category D person | Month | 35 200.00     |
|          | <b>STRUCTURAL ENGINEERING SERVICES</b>               |       |               |
| 5.3.7.   | Category A                                           | Hour  | 0.00          |
| 5.3.8.   | Category B                                           | Hour  | 1 081.00      |
| 5.3.9.   | Category C                                           | Hour  | 688.00        |
| 5.3.10.  | Category D                                           | Hour  | 337.00        |
| 5.3.11.  | Construction Monitoring: Level 3 - Category C person | Month | 10 000.00     |
| 5.3.12.  | Construction Monitoring: Level 3 - Category D person | Month | 5 000.00      |
|          | <b>MECHANICAL ENGINEERING SERVICES</b>               |       |               |
| 5.3.13.  | Category A                                           | Hour  | 0.00          |
| 5.3.14.  | Category B                                           | Hour  | 1 200.00      |
| 5.3.15.  | Category C                                           | Hour  | 980.00        |
| 5.3.16.  | Category D                                           | Hour  | 550.00        |
| 5.3.17.  | Construction Monitoring: Level 3 - Category C person | Month | 0.00          |
| 5.3.18.  | Construction Monitoring: Level 3 - Category D person | Month | 0.00          |
|          | <b>ELECTRICAL ENGINEERING SERVICES</b>               |       |               |
| 5.3.19.  | Category A                                           | Hour  | 0.00          |
| 5.3.20.  | Category B                                           | Hour  | 910.00        |
| 5.3.21.  | Category C                                           | Hour  | 780.00        |
| 5.3.22.  | Category D                                           | Hour  | 348.00        |
| 5.3.23.  | Construction Monitoring: Level 3 - Category C person | Month | 0.00          |
| 5.3.24.  | Construction Monitoring: Level 3 - Category D person | Month | 0.00          |

|          |                                                                                                                                                                           |      | Negotiated Rate |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|
| Item No. | Activity Description                                                                                                                                                      | Unit | Tendered Rate   |
|          | <b>ELECTRONIC ENGINEERING SERVICES</b>                                                                                                                                    |      |                 |
| 5.3.25.  | Category A                                                                                                                                                                | Hour | 0.00            |
| 5.3.26.  | Category B                                                                                                                                                                | Hour | 1 295.00        |
| 5.3.27.  | Category C                                                                                                                                                                | Hour | 1 005.00        |
| 5.3.28.  | Category D                                                                                                                                                                | Hour | 745.00          |
|          | <b>QUANTITY SURVEYING SERVICES</b>                                                                                                                                        |      |                 |
| 5.3.29.  | Registered Professional Principals (Specialist)                                                                                                                           | Hour | 1 250.00        |
| 5.3.30.  | Registered Professional Principals (> 10 years experience)                                                                                                                | Hour | 1 250.00        |
| 5.3.31.  | Registered Professional Principals (5 – 10 years experience)                                                                                                              | Hour | 800.00          |
| 5.3.32.  | Registered Professional Principals (< 5 years experience)                                                                                                                 | Hour | 665.00          |
| 5.3.33.  | Salaried Personnel                                                                                                                                                        | Hour | 450.00          |
|          | <b>ARCHITECTURAL SERVICES</b>                                                                                                                                             |      |                 |
| 5.3.34.  | Principal (Specialist)                                                                                                                                                    | Hour | 0.00            |
| 5.3.35.  | Principal (>10 years experience)                                                                                                                                          | Hour | 1 225.00        |
| 5.3.36.  | Principal (<10 years experience)                                                                                                                                          | Hour | 995.00          |
| 5.3.27.  | Salaried staff (Associates and Managers)                                                                                                                                  | Hour | 800.00          |
| 5.3.38.  | Salaried Staff (Registered architectural professionals performing work of an architectural nature and carrying direct responsibility for activities related to a project) | Hour | 750.00          |
| 5.3.39.  | Salaried Staff (Registered architectural professionals performing work of an architectural nature under direction and control)                                            | Hour | 535.00          |
| 5.3.40.  | Salaried Staff (Staff performing work of an architectural nature and/or to support architectural work outputs under direction and control)                                | Hour | 410.00          |
|          | <b>PROJECT MANAGEMENT SERVICES</b>                                                                                                                                        |      |                 |
| 5.3.41.  | Category A (Note W1)                                                                                                                                                      | Hour | 0.00            |
| 5.3.42.  | Category B (Note W1)                                                                                                                                                      | Hour | 1 364.00        |
| 5.3.43.  | Category C (Note W1)                                                                                                                                                      | Hour | 792.00          |
| 5.3.44.  | Category D (Note W1)                                                                                                                                                      | Hour | 419.00          |
|          | <b>CONSTRUCTION HEALTH AND SAFETY SERVICES</b>                                                                                                                            |      |                 |
| 5.3.45.  | Professional Construction Health and Safety Agent (Note W2)                                                                                                               | Hour | 850.00          |
| 5.3.46.  | Construction Health and Safety Manager (Note W2)                                                                                                                          | Hour | 550.00          |
| 5.3.47.  | Construction Health and Safety Officer (Note W2)                                                                                                                          | Hour | 450.00          |

| Item No. | Activity Description                                                                                                                                  | Unit | Tendered Rate |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|
|          | <b>ENVIRONMENTAL AND HERITAGE SERVICES</b>                                                                                                            |      |               |
| 5.3.48.  | Environmental Assessment Practitioner (Note W3)                                                                                                       | Hour | 599.00        |
| 5.3.49.  | Environmental Assessment Practitioner Assistant                                                                                                       | Hour | 329.00        |
| 5.3.50.  | Environmental Control Officer (Note W4)                                                                                                               | Hour | 319.00        |
| 5.3.51.  | Heritage Assessment Practitioner (Note W7)                                                                                                            | Hour | 950.00        |
| 5.3.52.  | Heritage Assessment Practitioner Assistant                                                                                                            | Hour | 600.00        |
| 5.3.53.  | Freshwater Ecologist (Note W8)                                                                                                                        | Hour | 950.00        |
| 5.3.54.  | Environmental Specialist (e.g. botanist, horticulturist, marine biologist, etc.) (Note W9)                                                            | Hour | 900.00        |
|          | <b>LANDSCAPE ARCHITECTURAL SERVICES</b>                                                                                                               |      |               |
| 5.3.55.  | Registered Professional Principal Landscape Architect (minimum 8 years' experience)                                                                   | Hour | 800.00        |
| 5.3.56.  | Staff performing work of a landscape architectural nature and carrying direct responsibility for one or more specific activities related to a project | Hour | 400.00        |

**5.4: ADDITIONAL AND SPECIALIST SERVICES - GENERAL**

Negotiated Rate

**Time-based fees for Normal Services Stages 1 to 6 and Additional Services for the following disciplines:**

| Item No.  | Activity Description                                                                                                    | Unit | Tendered Rate |
|-----------|-------------------------------------------------------------------------------------------------------------------------|------|---------------|
| 5.4.1.1.  | Land Survey Team – Field Work (civil topographical surveys or survey/measure existing structures)                       | Hour | 750.00        |
| 5.4.1.2.  | Land Survey Team – Office Work (reduce field work, prepare CAD/GIS drawing/s, maps and reports)                         | Hour | 350.00        |
| 5.4.1.3.  | CAD Draughting Operator                                                                                                 | Hour | 440.00        |
| 5.4.1.4.  | GIS technician                                                                                                          | Hour | 300.00        |
| 5.4.1.5.  | Registered Land Surveyor (cadastral surveys, property registration of sub-divisions)                                    | Hour | 1 000.00      |
| 5.4.1.6.  | Dam Safety specialist (Note W10)                                                                                        | Hour | 1 000.00      |
| 5.4.1.7.  | Energy Optimisation specialist (Note W11)                                                                               | Hour | 800.00        |
| 5.4.1.8.  | Fire Service specialist (Note W12)                                                                                      | Hour | 780.00        |
| 5.4.1.9.  | Geotechnical specialist (Note W13)                                                                                      | Hour | 1 500.00      |
| 5.4.1.10. | Hazardous Substances Management specialist (Major Hazardous Installations, working with hazardous materials) (Note W14) | Hour | 1 200.00      |
| 5.4.1.11. | Hydraulic Engineer "B" (Note W15)                                                                                       | Hour | 681.00        |
| 5.4.1.12. | Process Design Engineer "D" (Note W16)                                                                                  | Hour | 1 531.00      |
| 5.4.1.13. | Process Design Engineer "E" (Note W17)                                                                                  | Hour | 829.00        |
| 5.4.1.14. | Water Use Authorisation specialist (Note W18)                                                                           | Hour | 950.00        |
| 5.4.1.15. | Training Supervisor (Note W19)                                                                                          | Hour | 300.00        |

## 5.5: RECOVERABLE EXPENSES

### Recoverable Expenses

| Item No. | Activity Description                                                                                                                                                                                                                       | Unit | Sum |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 5.5.1.   | Service Provider's cost for materials, equipment, testing and/or any other recoverable expenses not covered in the tender document will be claimed under this item for each individual works project during the Framework Contract Period. | Sum  |     |

Provision for Service Provider's Mark-up on Recoverable Expenses claimed under item 5.5.1.

| Item No. | Activity Description                                      | Unit | Tendered Percentage |
|----------|-----------------------------------------------------------|------|---------------------|
| 5.5.2.   | Service Provider's percentage mark-up on item 5.5.1 above | %    | 0.00                |

## 5.6: DISBURSEMENTS/RECOVERABLE EXPENSES

| Item No. | Description                                                                                                | Unit  | Tendered Rate |
|----------|------------------------------------------------------------------------------------------------------------|-------|---------------|
|          | Recoverable expenses in respect of printing/plotting/copying, traveling expenses, etc. as specified below: |       |               |
| 5.6.1.   | Size A0 (Monochrome)                                                                                       | No.   | 0.00          |
| 5.6.2.   | Size A1 (Monochrome)                                                                                       | No.   | 0.00          |
| 5.6.3.   | Size A2 (Monochrome)                                                                                       | No.   | 0.00          |
| 5.6.4.   | Size A3 (Monochrome)                                                                                       | No.   | 1.55          |
| 5.6.5.   | Size A4 (Monochrome)                                                                                       | No.   | 0.95          |
| 5.6.6.   | Size A4 (Monochrome on colour paper)                                                                       | No.   | 1.20          |
| 5.6.7.   | Size A0 (Colour)                                                                                           | No.   | 0.00          |
| 5.6.8.   | Size A1 (Colour)                                                                                           | No.   | 0.00          |
| 5.6.9.   | Size A2 (Colour)                                                                                           | No.   | 0.00          |
| 5.6.10.  | Size A3 (Colour)                                                                                           | No.   | 8.75          |
| 5.6.11.  | Size A4 (Colour)                                                                                           | No.   | 0.00          |
| 5.6.12.  | Laminated posters: Size A0 (Colour)                                                                        | No.   | 0.00          |
| 5.6.13.  | Laminated posters: Size A1 (Colour)                                                                        | No.   | 0.00          |
| 5.6.14.  | Laminated posters: Size A2 (Colour)                                                                        | No.   | 0.00          |
| 5.6.15.  | Laminated posters: Size A3 (Colour)                                                                        | No.   | 0.00          |
| 5.6.16.  | Compilation and binding of reports/tender documents, books of drawings, etc.                               | No.   | 0.00          |
| 5.6.17.  | Electronic Data provided on a flash drive (4 GB).                                                          | No.   | 0.00          |
| 5.6.18.  | Provision of Personal Computer                                                                             | Month | 555.00        |
| 5.6.19.  | Travel expenses                                                                                            | km    | 3.98          |
| 5.6.20.  | Travel expenses (4 X 4)                                                                                    | km    | 5.94          |

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## Part C3: Scope of Work

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**TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN**

## **C3.1 Scope of Work**

### **CONTENTS**

1. INTRODUCTION AND EMPLOYER'S OBJECTIVE
2. DESCRIPTION OF THE SERVICES REQUIRED
3. EXTENT OF THE SERVICES
4. USE OF REASONABLE SKILL AND CARE
5. PROJECT BRIEF
6. APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS
7. APPROVALS
8. PROCUREMENT
9. FORMAT OF COMMUNICATION
10. KEY PERSONNEL
11. MANAGEMENT MEETINGS
12. CLAIMS FOR PAYMENT
13. EMPLOYER'S RIGHT TO RECOVER COSTS
14. INTELLECTUAL PROPERTY RIGHTS AND CONFIDENTIALITY

### **1. INTRODUCTION AND EMPLOYER'S OBJECTIVE**

The Employer's objectives are to execute new developments and services and repairs, maintenance, alterations, additions and refurbishments to existing properties and services within the Water and Sanitation Department, for which it requires teams of Professional Services Providers. The department is divided into five (5) branches for this tender and the Employer intends to appoint a "Winner", a "Standby Service Provider 1" and a "Standby Service Provider 2" to provide multidisciplinary professional services for each branch.

| <b>Branch No.</b> | <b>Branch Name</b>                        | <b>Estimated professional fees to be spent per branch for the Framework Contract Period</b> |
|-------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|
| A                 | Bulk Water                                | R100 000 000                                                                                |
| B                 | Catchment Stormwater and River Management | R56 000 000                                                                                 |
| C                 | Engineering and Asset Management          | R54 000 000                                                                                 |
| D                 | Reticulation Branch                       | R84 000 000                                                                                 |
| E                 | Wastewater Treatment                      | R100 000 000                                                                                |

**Note 1:** It is the intention of the Employer to use the successful Service Providers if and when required and the successful appointment under this contract does not guarantee any amount of work to be executed hereunder. The Employer reserves the right to plan and effect individual Works Projects at its sole discretion and to reduce or increase the estimated professional fees to be spent per branch according to the dictates of the budget.

Teams of Professional Service Providers are required to provide the professional services necessary to implement these projects, which, in terms of the Municipal Finance Management Act, 2003 and the Municipal Supply Chain Management Regulations, 2005, must be procured through a competitive bidding process.

The list of Typical Works Projects contained in Clauses 2.1, 2.2, 2.3, 2.4 and 2.5 (Description of the Services Required) is merely an outline of the scope of the Contract Works for each branch and shall not limit the work to be carried out by the Service Provider under this Framework Contract. The anticipated services to be provided in accordance with the Framework Contract Document for the Typical Works Projects are included in the Schedules of Rates.

It will be expected that a Project Leader (Project Manager or similar professional person) will lead the teams of Professional Service Providers and who will draw the required competencies from resources available to him (e.g. in his own company or sub-consultant) or from external approved Service Providers. The key personnel in the Service Provider teams shall comply with the competencies required irrespective of the nature of the teams and will be evaluated as a single entity

As this framework contract period will exceed the current budget cycle, it is subject to Section 33 of the Municipal Finance Management Act, 56 of 2003, and consequently the Employer must follow the required processes in terms of Section 33. These will run concurrently with the procurement process for this tender/contract. The Start Date of the Framework Contract is expected to be within 10 (ten) months of the tender closing date.

The Employer reserves the right to utilise, under exceptional circumstances, the Service Providers appointed for this framework contract to provide professional services to other Directorates/Departments within the City of Cape Town. These Works Projects will be issued subject to agreement between the Framework Contract Manager and the Service Provider and will be without prejudice.

## **2. DESCRIPTION OF THE SERVICES REQUIRED**

**2.1 NOT APPLICABLE**

**2.2 NOT APPLICABLE**

**2.3 NOT APPLICABLE**

**2.4 NOT APPLICABLE**

**2.5 WASTEWATER TREATMENT BRANCH**

The Service Provider is required to provide the professional services listed in Clauses 2.5.1 to 2.5.8 below to address the following Typical Works Projects which are anticipated to be executed during the duration of the contract. (Note: Projects requiring design will mostly include the construction phase)

- Additions, alterations, refurbishments and new building works.
- Upgrades and additions to road works, paving, sewer, stormwater, reticulation/minor water supply and ducts (electrical, instrumentation, telecommunication, etc.) at wastewater treatment works.
- Refurbishment, upgrade and new pump stations.
- Design of water retaining structures (settling tanks, balancing tanks, reactors) and other concrete structures.
- Bulk pipeline (for reuse and final effluent) design including route planning, vertical alignment and hydraulic analysis.
- Wastewater treatment process improvement and investigations.
- Online effluent monitoring.
- Renewal of licences at various Wastewater Treatment Works.
- Geotechnical investigations.
- Environmental investigations and studies.

### **Personnel requirements**

The requirements of the various professional/technical personnel are contained in the Notes provided as a preamble to Schedule No.5: Wastewater Treatment Branch in Part C2.2: Schedules of Rates.

Verifiable experience referred to in the Notes is interpreted as experience in that particular service. Postgraduate years of experience is defined as working experience gained from the time of obtaining a baccalaureus/diploma qualification, as applicable.

## **2.5.1 Engineering Services (Civil, Structural, Mechanical, Electrical and Electronic)**

### **2.5.1.1 Planning, Studies, Investigations and Assessments**

The provision of all services described in Clause 3.1 of Board Notice 138 of 2015: Guideline for Services and Processes for Estimating Fees for Persons Registered in terms of the Engineering Profession Act, 2000 (Act No 46 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below.

### **2.5.1.2 Normal Services**

The provision of all services described in Clauses 3.2.1 to 3.2.6 (inclusive) of Board Notice 138 of 2015: Guideline for Services and Processes for Estimating Fees for Persons Registered in terms of the Engineering Profession Act, 2000 (Act No 46 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below.

The Service Provider's attention is also drawn to the responsibilities of the designer of a structure in terms of the Construction Regulations, and shall comply with all requirements in this regard.

The Service Provider shall, apart from conducting his own activities in compliance with the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and Construction Regulations 2014, ensure that any sub-consultants/contractors employed by the Service Provider also comply with the requirements of the Act and Regulations. The Service Provider shall enter into an agreement with the Employer in this regard before the commencement of any work related to this contract (Form C1.3, Occupational Health and Safety Agreement Part C1, refers).

### **2.5.1.3 Additional Services**

- (1) The provision of additional services pertaining to all stages of the project as anticipated in Clause 3.3.1 of Board Notice 138 of 2015: Guideline for Services and Processes for Estimating Fees for Persons Registered in terms of the Engineering Profession Act, 2000 (Act No 46 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below, will be conducted based on the hourly rates tendered and upon the acceptance of a quotation for such services received from the Service Provider by the Employer.
- (2) The provision of construction monitoring service as described in Clause 3.3.2 of Board Notice 138 of 2015: Guideline for Services and Processes for Estimating Fees for Persons Registered in terms of the Engineering Profession Act, 2000 (Act No 46 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below, will be based on the rates tendered and upon the acceptance of a quotation for such services received from the Service Provider by the Employer.

## **2.5.2 Quantity Surveying Services**

### **2.5.2.1 Building and Engineering Works Services**

The provision of all applicable services described in Board Notice 170 of 2015: Guideline Tariff of Professional Fees in respect of Services rendered by Persons Registered in terms of the Quantity Surveying Profession Act, 2000 (Act No 49 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below.

## **2.5.3 Architectural Services**

### **2.5.3.1 Standard Services**

The provision of all services described in Clauses 1.1 of Board Notice 121 of 2015: Framework for the Professional Fees Guideline in respect of services provided by persons registered in terms of the Architectural Profession Act, 2000 (Act No 44 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below.

The Service Provider's attention is also drawn to the responsibilities of the designer of a structure in terms of the Construction Regulations, and shall comply with all requirements in this regard.

The Service Provider shall, apart from conducting his own activities in compliance with the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and Construction Regulations 2014, ensure that any sub-consultants/contractors employed by the Service Provider also comply with the requirements of the Act and Regulations. The Service Provider shall enter into an agreement with the Employer in this regard before the commencement of any work related to this contract (Form C1.3, Part C1, refers).

#### 2.5.3.2 Additional Services

- (1) The provision of additional services pertaining to all stages of the project as anticipated in Clauses 1.2.1 of the 2015: Framework for the Professional Fees Guideline in respect of services provided by persons registered in terms of the Architectural Profession Act, 2000 (Act No 44 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below, will be conducted based on the hourly rates tendered and upon the acceptance of a quotation for such services received from the Service Provider by the Employer.
- (2) The provision of special inspections (more intensive inspections and assessments of the works) as described in Clause 1.2.1.2(c) of the 2015 Professional Fees Guidelines as published by the South African Council for the Architectural Profession in terms of the Architectural Profession Act, 2000 (Act No 44 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below, which will be conducted based on the rates tendered and upon the acceptance of a quotation for such services received from the Service Provider by the Employer.
- (3) Rezoning or change of use or amendments of town planning schemes.

#### 2.5.4 Project Management Services

The provision of all services described in Clause 3.0 (Standard Services) and Clause 4.0 (Additional/Supplementary Services) of Board Notice 202 of 2011: Guideline Scope of Services and Recommended Guideline Tariff of Fees for Persons Registered in terms of the Project and Construction Management Professions, (Act 48 of 2000), as amended or amplified upon in the Project Brief (Clause 5) below.

#### 2.5.5 Environmental Assessment Practitioner, Environmental Control Officer, Environmental Auditor and Heritage Assessment Practitioner

- 2.5.5.1 An independent Environmental Assessment Practitioner (EAP) is required to assess the project objectively, provide advice on the implementation of relevant environmental legislation and the requirements for any Environmental Assessments, undertake such assessments (where required), obtain the required Environmental Authorisation from the Environmental Authorities (where required) and develop an Environmental Management Programme (EMPr) for the project.

The EAP will be responsible for the planning, management, coordination of environmental impact assessments, strategic environmental assessments, environmental management programmes or any other appropriate environmental instruments introduced through regulations

An EAP may be required to act as a Review EAP on any project as instructed by the Employer. A Review EAP must fulfil the requirements of an EAP and must be registered with EAPASA.

When required, a Public Participation Practitioner will assist with any Environmental Impact Assessments or similar. The practitioner will be required to have at least 3-years' experience in similar activities.

- 2.5.5.2 An independent Environmental Control Officer (ECO) is required to monitor objectively the implementation of relevant environmental legislation, conditions of Environmental Authorisations (EAs or other environmental licences, permits) and the Environmental Management Plan for the project. The ECO must be on site prior to any site establishment and must form an integral part of the project team.
- 2.5.5.3 An independent Environmental Auditor is required to undertake environmental compliance audits at prescribed timeframes (prescribed by the competent authority) for the duration of construction related activities (and thereafter as required). These audits must comply with the requirements as prescribed in Regulation 34 of the EIA Regulations, 2014, as amended.
- 2.5.5.4 An independent Heritage Assessment Practitioner (HAP) may be required to assess a project objectively and provide advice on the implementation of the National Heritage Resources Act and Heritage Protection Overlay zoning where this is in place. The Heritage practitioner will be required to complete any Notifications of Intent to Develop, carry out any heritage impact assessments or develop heritage statements for the project, and assist with any required applications under heritage legislation as well as with the implementation of any heritage requirements put in place by the relevant authorities. It must be noted that the heritage practitioner should be appropriately experienced/qualified in the applicable fields of heritage such as built environment, archaeology or palaeontology as required.

#### **2.5.6 Health and Safety Services**

The provision of all services described in Clause 3 (Standard Services) and Clause 4 (Additional Related Services) as described in the **Guideline Scope of Services and Recommended Guideline Tariff of Fees for Construction Health and Safety Professionals Registered in terms of the Project and Construction Management Professions Act, 2000 (Act 48 of 2000)**, Board Notice 167 of 2019 as gazetted in government Gazette No. 42697, 13 September 2019, as amended or amplified upon in the Project Brief (Clause 5) below.

#### **2.5.7 Landscape Architectural Services**

All standard services as described in Stages 1 to 6 in the Amended Landscape Architectural Work Stages January 2011 published by the South African Council for the Landscape Architectural Profession (available on their website [www.saclap.org.za](http://www.saclap.org.za)), as amended or amplified upon in the Project Brief (Clause 5) below.

#### **2.5.8 Specialist Services**

Where the Employer requires specialist services from the Service Provider to comply with the Scope of Works, such services shall be provided by the Service Provider and shall be conducted on a Time and Cost basis. No additional services shall be undertaken without the approval of the Employer. Such specialist services shall include but are not limited to those listed in item 5.4 in C2.2: Schedules of Rates.

Where the Employer requires materials, equipment, testing and/or any other recoverable expenses not covered in the Scope of Work, such items will be provided by the Service Provider on a cost basis plus administration fee (refer to items 5.5.1 and 5.5.2 in C2.2: Schedules of Rates). Prior approval needs to be obtained from the Employer before these items may be procured.

### **3. EXTENT OF THE SERVICES**

The work that is to be carried out under the contract is as provided for in the Schedules of Rates. However, if during the course of the Works Project, circumstances are found to differ from those anticipated, the Employer reserves the right to modify the scope of the Work Project to suit the prevailing circumstances.

Purchase Orders will be raised for each approved Works Project by the Employer. Such Works Project will be based on the Schedules of Rates or time based cost proposal submitted by the Service Provider and accepted by the Employer.

The services to be provided in terms of this contract are inextricably linked to the Employer's budget, and it should be noted that while the Employer has every intention of completing the full Scope of Work making full use of the budget allocation, the Employer's budget is subject to periodic review. Should it become necessary to vary the scope of work or even suspend or terminate this contract, such variation, suspension or termination shall be dealt with in accordance with the provisions of the Standard Professional Services Contract as amended by the Contract Data.

### **4. USE OF REASONABLE SKILL AND CARE**

The Service Providers' attention is drawn to the fact that the safety of persons and property is of paramount importance, closely followed by the minimisation of disruption and inconvenience to the local authority and public.

The Service Provider is therefore required to provide all aspects of the Service with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards, and ensure that all legal requirements are met, and that all legal processes are adhered to.

### **5. PROJECT BRIEF**

#### **5.1 Terms of Reference**

The Employer's objective is to:

- (i) perform repairs, renovations, alterations and additions from time to time on some of the properties and services under its custodianship. These properties are located in all areas of the City of Cape Town.
- (ii) execute new capital projects or services.

In order to design, procure and manage these projects the Employer requires various professional services to be provided. All services would be performed in complete compliance with the respective guidelines or tariffs of fees.

In general, it is the Employer's intention for the Service Provider to provide all stages of services (Stages 1-6) for a particular Works Project.

The Service Provider will furthermore be required to procure, on instruction from the Employer, any other specialist services as may be required for the successful implementation of this project, in terms of a sub-consultancy or sub-contract agreement.

## **5.2 Specific Requirements**

### **5.2.1 Professional Consulting Services**

#### **5.2.1.1 Planning, Studies, Investigations and Assessments**

The Service Provider shall carry out all of the studies and investigations necessary to determine a scope of work for each facility. A Preliminary report on the technical and financial feasibility of the project together with preliminary proposals in this regard shall be submitted.

The payment for Planning, Studies, Investigations and Assessments shall be at the tendered Time-Based fees for the professional services required.

#### **5.2.1.2 Normal, Standard and Building & Engineering Works Services**

Where a Quantity Surveyor is not part of the team for a particular Works Project, the cost estimates shall be completed by the other relevant disciplines for each Stage (as applicable) and the cost thereof shall be deemed to be included in the tendered rates for that discipline.

##### **Stage 1: Inception**

The Works Project Brief will generally have been agreed before the Works Project commences.

The Service Provider shall provide a Works Project Proposal, as detailed in clause 4.8 of Part C1.2: Contract Data, to the Employer for approval.

##### **Stage 2: Concept and Viability**

The Service Provider shall provide a preliminary design.

##### **Stage 3: Design Development**

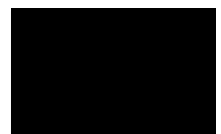
The Service Provider shall provide those services necessary to finalise the detailed scope of work, design, specifications, detailed estimate and updated programme for the project and shall co-ordinate the input from all members of the professional team in this regard. The Project Leader shall be responsible for ensuring that the time, cost and quality parameters are adhered to. The Project Leader's name for the particular Works Project must be clearly stated in the Works Project Proposal.

The Service Provider shall be responsible for all service enquiries, wayleave applications and obtaining the necessary authority or permission from the relevant service authorities to carry out all work in terms of this project. All applications in this respect must be carried out timeously.

The design development shall take cognisance of all design requirements as may be imposed by the local authority or any other authority whose services are impacted upon by the proposed work.

The design development shall consider and minimise disruption to the working environment of staff adjacent to renovated areas. A form of screening at public entrances, corridors and private working areas must be considered to minimise loss of privacy and entry into the properties and those immediately adjacent.

A set of documents, consisting of a scope of work, draft plans/drawings and specifications shall be submitted to the Employer for comment and approval prior to going out to tender. All plans must be thoroughly checked by the Service Provider's Project Leader prior to submission. On approval of the detail design drawings and council approved drawings, two sets of paper prints of each must be submitted to the Employer for signature. One set will be kept by the Employer and the other returned to the Service Provider. All other prints issued thereafter shall carry the words "Initial version signed on (date)" at the signature location in the title block.



A revised cost estimate shall be submitted to the Employer.

#### **Stage 4: Documentation and Procurement**

The Service Provider shall provide those services necessary for the preparation of procurement documentation, advertising of tenders, and the evaluation of tenders received. The Service Provider shall confirm the Employer's procurement (Supply Chain Management) policies and procedures prior to the preparation of any procurement documentation.

The construction contract document shall be prepared in the Construction Industry Development Board's (CIDB) or non-CIDB format (as applicable). The Service Provider shall confirm with the Employer which Conditions of Contract (GCC, FIDIC, JBCC, National Treasury, etc.) will be applicable to each Works Project. The Service Provider shall liaise with the Employer during the preparation of the contract document to determine any other specific requirements that the Employer may have in this regard.

Specifications shall include, inter alia, Health and Safety Specifications, and an Environmental Management Plan.

The Service Provider should note that it is the Employer's preference that all payment items must be measured out in the Bills of Quantities, as opposed to the use of provisional sums or prime cost items. Should provisional sums or prime cost items of greater value than R300 000 (incl. VAT) be included in the Bills of Quantities, the Service Provider will be expected to follow an open competitive process in respect of these items, on behalf of the contractor. This will include the preparation of a tender document, advertising and receiving tenders, and evaluating same on behalf of the contractor.

A draft contract document shall be submitted to the Employer for scrutiny at least four weeks prior to the Bid Specification Committee meeting taking place. The Service Provider shall attend Bid Specification Committee meetings (as required) prior to the finalisation of the contract document and the advertising of tenders. All comments of the committee shall be incorporated into the final contract documents.

Once the contract document has been finalised, the Service Provider shall supply the Employer with an electronic copy of the documents and drawings.

The Service Provider shall be responsible for providing the Employer with the required number of copies of plans and tender documents for tender purposes (both hard copy and on a flash drive).

The Service Provider shall, during the tender period, attend and preside over a tender clarification meeting, and respond to all queries received during this period. This will include the preparation of any Notice to Tenderers.

Once tenders close, the Service Provider shall prepare a technical evaluation report for consideration by the Employer's Bid Evaluation Committee (BEC). The Service Provider may be required to attend the BEC Meeting and may be asked to respond to any queries the committee may raise and follow up on any issues requiring attention/action.

Once approved by the Employer, the Service Provider shall facilitate the signing up of the construction contract, in consultation with the Employer.

Working drawings, including reinforcement drawings and Bending Schedules, shall be finalised as part of Stage 4 unless otherwise agreed with the Employer.

#### **Stage 5: Contract Administration and Inspection**

The Service Provider shall provide those services as required to manage, administer and monitor the construction contract, including co-ordination of the inspection of the works by the other members of the professional team, as and when necessary.

The service to be provided shall include, where necessary detailed drawings prepared by the contractor for manufacture and installation.

The Service Provider shall prepare any further plans, designs and drawings (over and above the tender drawings), which may be necessary for the execution of the works. The preparation of any shop drawings required for manufacture and installation, or the detailed checking of such, where prepared and submitted by the construction contractor, shall form part of the normal services to be provided by the Service Provider.

The Service Provider shall also, in particular, ensure that all payment certificates, preferential procurement and labour returns, and contract participation expenditure reports are timeously submitted.

### **Stage 6: Close-Out**

The Service Provider shall complete the project close-out as described in the guideline scope of services.

As-built plans/drawings shall be submitted to the Employer in electronic format (preferably .dwg, otherwise .dxf) as well as one complete set of paper prints.

The Service Provider shall also compile a project close-out report for submission to the Employer, which includes, *inter alia*, technical details of the project, the project team, project cost, completion dates, construction details and design changes, delays and the reasons thereof, problems encountered and the solution thereof, conclusions and recommendations.

#### **5.2.1.3 Additional Services**

Payment for the following services will be deemed to be included in the tendered percentage rates unless specifically itemised or excluded:

##### **Service Enquiries/Wayleave Applications**

The Service Provider shall be responsible for all initial service enquiries/wayleave applications from the various service authorities, the requirements of whom shall be carried through into the designs and tender documentation as necessary. Payment for this service will be time-based.

##### **Preferential Procurement and Targeted Participation**

The Service Provider shall provide all services related to preferential procurement and targeted participation in respect of the construction contract (as set out in the Employer's example CIDB documents for Civil (or other) construction contracts including but not limited to:

- (a) the incorporation into the contract documentation of:
  - i) preferential procurement requirements in respect of B-BBEE and, if applicable, local production and content, and
  - ii) targeted participation goals in respect of targeted labour and/or resources.
- (b) the monitoring and verification of compliance with (i) and (ii) in (a) above during the construction contract (including the receiving and collation of documentary evidence submitted by the contractor in this regard).

##### **Construction Monitoring**

Construction monitoring will be required for many projects, requiring the full time input of experienced individuals on site. The level of construction monitoring required will be stated in the Works Project Brief.

The Service Provider shall, when called upon to do so by the Employer, submit a fully motivated proposal for such construction monitoring to the Employer for approval.

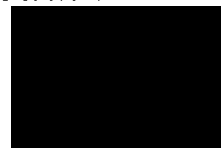
The proposal shall name the individual(s) proposed, provide details of their experience in relation to the particular Works Project, the anticipated duration of their involvement and the monthly cost in respect thereof. The cost shall include all benefits, overhead charges and profit as well as any overtime costs, if applicable. Construction monitoring staff will be paid over the year end break, if applicable.

The Service Provider's proposal may be accepted or rejected at the sole discretion of the Employer.

##### **Act as the Employer's agent in terms of the Occupational Health and Safety Act**

The Service Provider, in submitting a tender for this professional services contract, shall be deemed to have acknowledged acceptance of the appointment as the Employer's Construction Health and Safety Agent in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and the Construction Regulations, 2014, should the Employer accept the tender. The Service Provider shall, as such, execute all of the duties of the client as contemplated in the Construction Regulations.

The Service Provider's attention is also drawn to the responsibilities of the designer of a structure in terms of the Construction Regulations, and shall comply with all requirements in this regard.



The Service Provider shall, apart from conducting his own activities in compliance with the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and Construction Regulations, 2014, ensure that any sub-consultants/contractors employed by the Service Provider also comply with the requirements of the Act and Regulations. The Service Provider shall enter into an agreement with the Employer in this regard before the commencement of any work related to this contract (Form C1.3, Part C1, refers).

#### **Environmental Control Officer**

Where required for a specific Works Project, the Service Provider shall provide from within its own organisation or, if necessary, appoint as a sub-consultant, a suitably experienced Environmental Control Officer (ECO) whose responsibilities shall be as follows:

- (a) to prepare a project specific Construction Environmental Management Programme (specification) (EMPr) for inclusion into the construction tender/contract documents.
- (b) to assist the Employer's Agent/Engineer/Principal Agent in ensuring that any necessary permits are obtained.
- (c) to convey the contents of the EMPr to the contractor's site team, and discuss the contents in detail with the contractor, as well as to conduct induction and environmental awareness training sessions to the contractor's and sub-contractor's workforces, as and when necessary.
- (d) to monitor and verify that the EMPr is adhered to at all times, and to inform the Employer's Agent/Engineer/Principal Agent if the specifications are not followed.
- (e) to review construction method statements for approval by the Employer's Agent/Engineer/Principal Agent.
- (f) to assist the Employer's Agent/Engineer/Principal Agent and contractor in finding environmentally responsible solutions to problems.
- (g) to provide a report on environmental compliance issues (with photographic evidence, if applicable) at the monthly site meetings or any other meetings that may be called regarding environmental matters.
- (h) to ensure that all activities/incidents concerning the environment are recorded in the site records, to monitor and review such records and advise the Employer's Agent/Engineer/Principal Agent of any action necessary.
- (i) to inspect the site and surrounding areas with regard to compliance with the EMPr.
- (j) to advise the Employer's Agent/Engineer/Principal Agent on the imposition of penalties or fines specified in the EMPr, or the removal of person(s) and/or equipment not complying with the specifications.

The frequency of site visits/inspections shall be as and when necessary, but not less than at monthly intervals.

#### **Training of Personnel**

The Employer may require that the Service Provider provide training and transfer knowledge to one or more of the Employer's staff, described as a Trainee for the purposes of this Contract.

The preferred situation will be that the Trainee is incorporated into the Service Provider's team for a particular Works Project. The Trainee should be given specific design tasks to complete under the supervision of an experienced and relevant engineer, referred to as the Supervisor.

The Supervisor will be required to:

- Guide and instruct the Trainee in the execution of the tasks
- Monitor the Trainee's progress
- Provide monthly feedback on the Trainee's progress

Payment will be made for the effective time spent by the engineer in the supervision and training of the Trainee. Payment will also be made for the provision of a Personal Computer (PC) for the sole use by the Trainee for the execution of the task(s) allocated to the Trainee. The PC shall be appropriate for the task(s) and have the necessary software required for the execution of the task(s). Appropriate payment items have been allowed in the Schedules of Rates.

### **5.3 Time Frames/Milestones**

Milestones set by the Employer typically revolve around budget cycles and the need to spend the budget in any given financial year. The important milestones are therefore the financial year ends (30 June each year) and the Service Provider will be expected to establish a project programme, in consultation with the Employer that takes cognisance of the budgets available and the budget cycles. Once agreed, the Service Provider is expected to ensure that the programme is adhered to, and to intervene timeously if necessary.

The Service Provider shall submit a revised programme as and when required by the Employer.

#### 5.4 Places for the Performance of Specific Tasks

It is anticipated that the majority of the work involved in the reporting, preliminary design and detail design and tender stages will be undertaken at the Service Provider's local office. The construction monitoring service will take place at the site of the project.

The Service Providers personnel will however be required to attend meetings in the Cape Metropolitan area or at the location of the Works Projects as and when required, and it may be necessary to carry out inspections at the contractor's (or sub-contractor's) yard(s) wherever they may be.

#### 5.5 Reporting Requirements

Aside from the three particular reports required in terms of the brief above (the Preliminary Technical & Feasibility Report, Tender Evaluation Report and Project Close-Out Report), the Service Provider may be required to prepare, or contribute to, ad hoc reports on specific aspects of the project.

Furthermore, the Service Provider shall submit monthly cost reports to the Employer showing expenditure in respect of both the Service Provider's appointment and the construction contractor's contract; together with the anticipated spend to the end of the financial year in question.

The Conceptual Planning Report shall be submitted within the time frames agreed to by the Employer.

The Tender Evaluation Report shall be submitted to the Employer within two weeks of tenders for the construction works having been received.

A preliminary Project Close-Out Report shall be submitted to the Employer within three months of the Certificate of Completion having been issued, which shall be updated as necessary and re-submitted within three months of the issue of the Final Approval Certificate.

#### 6. APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS

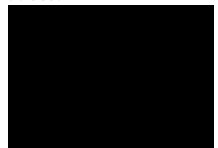
The Service Provider shall ensure that cognisance of all applicable national and international standards are taken in the execution of his/her own work and that of his/her sub-consultants in the design and compilation of specifications for this project. International standards should only be used where no national standards exist, or where it is the norm to use or refer to international standards.

#### 7. APPROVALS

The Service Provider shall be responsible for obtaining the following approvals:

- (a) Approval of the implementation programme from the Employer,
- (b) Approval of the conceptual and preliminary designs from the Employer,
- (c) Approval of the project from Heritage Western Cape (*if required*),
- (d) Approval (authorisation) of the project from the Department of Environmental Affairs and Development Planning (*if required*),
- (e) Approval of the detail design, drawings and contract document from the Employer,
- (f) Wayleave approval from all service authorities,
- (g) Approval of the Engineers Representative from the Employer,
- (h) In respect of time based services, approval of the allocation of staff from the Employer,
- (i) Approval for the employment of specialist sub-consultants from the Employer,
- (j) Approval of plans from Department of Planning and Building Development within City of Cape Town in accordance with the National Building Regulations and Building Standards Act (Act 103 of 1977) and all necessary certifications,
- (k) Approval for the employment of specialist sub-consultants and their applicable costs/hourly rates from the Employer,
- (l) Approval of the accommodation of traffic plans from the Traffic Manager.

Notwithstanding any approval received from the Employer, the Service Provider shall remain responsible for all work carried out by the Service Provider and its sub-consultants in terms of this contract.



## 8. PROCUREMENT

### 8.1 Preferential Procurement

The Works shall be executed in accordance with the conditions associated with the granting of preferences detailed in the **Preference Schedule** where preferences are granted in respect of B-BBEE contribution.

Financial penalties, as described in the **Preference Schedule**, shall be applied in the event that the Service Provider is found to have breached the conditions contained in the **Preference Schedule** (unless proven to be beyond the control of the Service Provider).

Notwithstanding the application of penalties, the Service Provider's attention is drawn to other sanctions that may be applied by the Employer (listed in the **Preference Schedule**) with due consideration to the circumstances.

### 8.2 Monitoring the use of sub-contractors/sub-consultants and joint ventures

Notwithstanding the restriction on sub-contracting as described on the **Preference Schedule**, it is recognised that sub-contracting is an integral part of the built environment, which the conditions of contract make provision for.

In order, however, to comply with the requirements of the **Preference Schedule**, the Service Provider shall submit to the Employer's Agent, on a monthly basis, a **B-BBEE Sub-contract Expenditure Report**. The format of this report is provided in Annex 2 attached.

The Service Provider shall submit to the Employer's Agent documentary evidence in accordance with the applicable codes of good practise of the B-BBEE status level of every sub-contractor employed by the Service Provider. Until such time as documentary evidence as described above has been submitted to the Employer's Agent, a sub-contractor shall be deemed to be a non-compliant contributor.

The Service Provider shall furthermore, on the written request of the Employer's Agent, provide documentary evidence showing the value of work sub-contracted to any or all of the sub-contractors employed by the Service Provider.

### 8.3 Forms for contract administration

The Service Provider shall complete, sign and submit with each monthly statement for payment, the following updated returns (the format of which are attached in C3.2 Annexes as amended from time to time):

- B-BBEE Sub-contract Expenditure Report (Annex 1)
- Joint Venture Expenditure Report (Annex 2)

The **B-BBEE Sub-contract Expenditure Report** is required for monitoring the prime contractor's compliance with the sub-contracting conditions of the **Preference Schedule**.

The **Joint Venture Expenditure Report** is required for monitoring the joint venture's compliance with the percentage contributions of the JV partners as tendered, where the joint venture has been awarded preference points in respect of its consolidated B-BBEE scorecard.

In respect of Annexes 1 and 2, the Employer shall, in addition to any other sanctions available to it, apply the financial penalties applicable to breach of preferencing conditions in the **Preference Schedule** **Preference Schedule** in Part T2.2 Returnable Schedules. In the case of joint ventures (Annex 2), the contractor shall prove his compliance with item 6) in Section 2 of the **Preference Schedule** by providing a consolidated scorecard at his own cost on instruction from the Employer's Agent.

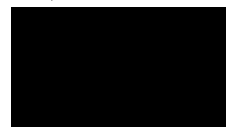
## 9. FORMAT OF COMMUNICATION

All requests for formal approval from the Employer, or any other body, shall be submitted in writing in hardcopy format. Interim payment claims shall be submitted in the same format, accompanied by an original tax invoice. Ad-hoc communication between the Employer and the Service Provider may be conducted per facsimile or in electronic format (e-mail). Electronic copies shall also be submitted for the record.

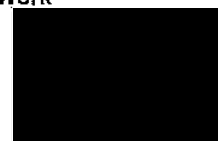
All plans and contract documents submitted for approval shall be in hardcopy and electronic format.

## 10. KEY PERSONNEL

More than the minimum number of key personnel stated below may be required in order to fulfil the Service Provider's obligations.



| KEY PERSONNEL                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                           |                                  |              |                      |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------|----------------------------------|--------------|----------------------|
| NOTE: Refer to Clauses 2.1, 2.2, 2.3, 2.4 and 2.5 in Part C3.1: Scope of Work for Typical Works Projects lists. |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                           |                                  |              |                      |
| Service                                                                                                         | Profession                                                                                                                                                                                                                                                                                                                                                                                                                                          | Branch     |                                           |                                  |              |                      |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bulk Water | Catchment Stormwater and River Management | Engineering and Asset Management | Reticulation | Wastewater Treatment |
| Civil Engineering                                                                                               | A minimum of 2 (two) registered professional Civil Engineers (PrEng) or professional Civil Engineering Technologists (PrTechEng) or other proven equivalent registration, each with at least 8 (eight) years verifiable postgraduate experience in the analysis, design, control and monitoring of civil and infrastructural works similar to those listed in Typical Works Projects lists.                                                         | ✓          | ✓                                         | ✓                                | ✓            | ✓                    |
| Structural Engineering                                                                                          | A minimum of 2 (two) registered professional Structural Engineers (PrEng) or professional Structural Engineering Technologists (PrTechEng) or other proven equivalent registration, each with at least 8 (eight) years verifiable postgraduate experience in the analysis, design, control and monitoring of structural works pertaining to all types of construction work similar to those listed in Typical Works Projects lists.                 | ✓          | ✓                                         | ✓                                | ✓            | ✓                    |
| Mechanical Engineering                                                                                          | A minimum of 2 (two) registered professional Mechanical Engineers (PrEng) or professional Mechanical Engineering Technologists (PrTechEng) or other proven equivalent registration, each with at least 8 (eight) years verifiable postgraduate experience in the analysis, design, control and monitoring of all works related to all types of construction work similar to those listed in Typical Works Projects lists.                           | ✓          | ✓                                         | ✓                                | ✓            | ✓                    |
| Electrical Engineering                                                                                          | A minimum of 2 (two) registered professional Electrical Engineers (PrEng) or professional Electrical Engineering Technologists (PrTechEng) or other proven equivalent registration, each with at least 8 (eight) years verifiable postgraduate experience in the analysis, design, control and monitoring of all works related to all types of construction work similar to those listed in Typical Works Projects lists.                           | ✓          | ✓                                         | ✓                                | ✓            | ✓                    |
| Electronic Engineering                                                                                          | A minimum of 1 (one) registered professional Electronic Engineer (PrEng) or professional Electronic Engineering Technologist (PrTechEng) or other proven equivalent registration, with at least 8 (eight) years verifiable postgraduate experience in PLC and SCADA programming and in the analysis, design, control and monitoring of all works related to all types of construction work similar to those listed in Typical Works Projects lists. | ✓          | ✓                                         | ✓                                | ✓            | ✓                    |



| KEY PERSONNEL                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                           |                                  |              |                      |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------|----------------------------------|--------------|----------------------|
| NOTE: Refer to Clauses 2.1, 2.2, 2.3, 2.4 and 2.5 in Part C3.1: Scope of Work for Typical Works Projects lists. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                           |                                  |              |                      |
| Service                                                                                                         | Profession                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Branch     |                                           |                                  |              |                      |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Bulk Water | Catchment Stormwater and River Management | Engineering and Asset Management | Reticulation | Wastewater Treatment |
| Process Design Engineer "A"                                                                                     | A minimum of 1 (one) <b>Process Design Engineer</b> who is a registered professional <b>Civil or Chemical Engineer (PrEng)</b> or professional <b>Civil or Chemical Engineering Technologist (PrTechEng)</b> or other proven equivalent <b>registration</b> , who has experience in the <u>analyses and design</u> of Water Treatment Plants (10M <sup>3</sup> /day or larger), and has either:<br>(i) a Postgraduate qualification in Water Treatment with a minimum of 8 (eight) years verifiable experience in the <u>analyses and design</u> of Water Treatment Plants, 5 (five) of which must be post Postgraduate experience, or<br>(ii) 20 (twenty) years verifiable experience in the <u>analyses and design</u> of Water Treatment Plants.                     | ✓          | *                                         | *                                | *            | *                    |
| Process Design Engineer "D"                                                                                     | A minimum of 1 (one) <b>Process Design Engineer</b> who is a registered professional <b>Civil or Chemical Engineer (PrEng)</b> or professional <b>Civil or Chemical Engineering Technologist (PrTechEng)</b> or other proven equivalent <b>registration</b> , who has experience in the <u>analyses and design</u> of Wastewater Treatment Plants (10M <sup>3</sup> /day or larger), and has either:<br>(i) a Postgraduate qualification in Wastewater Treatment with a minimum of 8 (eight) years verifiable experience in the <u>analyses and design</u> of Wastewater Treatment Plants, 5 (five) of which must be post Postgraduate experience, or<br>(ii) 20 (twenty) years verifiable experience in the <u>analyses and design</u> of Wastewater Treatment Plants. | *          | *                                         | *                                | *            | ✓                    |
| Hydraulic Engineer "A"                                                                                          | A minimum of 1 (one) registered professional <b>Civil Engineer (PrEng)</b> or professional <b>Civil Engineering Technologist (PrTechEng)</b> or other proven equivalent <b>registration</b> , with at least 8 (eight) years postgraduate experience in the design of large diameter pipelines and in surge analyses and must have undertaken, and taken responsibility for, the design of a minimum of 5 (five) pipeline projects (including surge analyses) with a diameter larger than 500mm.                                                                                                                                                                                                                                                                         | ✓          | *                                         | *                                | *            | *                    |
| Hydraulic Engineer "B"                                                                                          | A minimum of 1 (one) registered professional <b>Civil Engineer (PrEng)</b> or professional <b>Civil Engineering Technologist (PrTechEng)</b> or other proven equivalent <b>registration</b> , with at least 8 (eight) years postgraduate experience in the design of pipelines and in surge analyses and must have undertaken, and taken responsibility for, the design of a minimum of 5 (five) pipeline projects (including surge analyses) with a diameter larger than 300mm.                                                                                                                                                                                                                                                                                        | *          | *                                         | *                                | ✓            | ✓                    |

| KEY PERSONNEL                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                           |                                  |              |                      |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------|----------------------------------|--------------|----------------------|
| NOTE: Refer to Clauses 2.1, 2.2, 2.3, 2.4 and 2.5 in Part C3.1: Scope of Work for Typical Works Projects lists. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                           |                                  |              |                      |
| Service                                                                                                         | Profession                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Branch     |                                           |                                  |              |                      |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Bulk Water | Catchment Stormwater and River Management | Engineering and Asset Management | Reticulation | Wastewater Treatment |
| Hydraulic Engineer "C" (Hydrology and open channel hydraulics and engineering)                                  | A minimum of 1 (one) registered professional Civil Engineer (PrEng) or professional Civil Engineering Technologist (PrTechEng) or other proven equivalent registration, with at least 8 (eight) years verifiable postgraduate experience in this specialised field and specifically rainfall-runoff-water quality modelling, river (and floodplain) and open channel flow modelling, stormwater network modelling, analysis of river and rainfall data for flood management and stormwater harvesting, hydraulic engineering structures, and Sustainable Urban Drainage Systems (SUDS). | *          | ✓                                         | *                                | *            | *                    |
| Geohydrologist                                                                                                  | A minimum of 1 (one) Geohydrologist (PrSciNat) or other proven equivalent registration, with at least 10 (ten) years verifiable postgraduate experience in Groundwater management. The Geohydrologist must have at least a NQF level 8 (including an Honours degree) in geohydrology or similar earth/water science field of expertise and must have extensive knowledge in geohydrological investigations, wellfield development and operations, and monitoring (including water quality).                                                                                             | ✓          | *                                         | *                                | *            | *                    |
| Quantity Surveying                                                                                              | A minimum of 1 (one) registered professional Quantity Surveyor (PrQS) or other proven equivalent registration, with at least 8 (eight) years verifiable postgraduate experience in providing a quantity surveying service for all types of construction work similar to those listed in Typical Works Projects lists.                                                                                                                                                                                                                                                                   | ✓          | *                                         | ✓                                | ✓            | ✓                    |
| Architectural                                                                                                   | A minimum of 1 (one) registered professional Architect (PrArch) or professional Senior Architectural Technologist (Pr SArch T) or other proven equivalent registration, with at least 8 (eight) years verifiable postgraduate experience in providing an architectural service for all types of construction work similar to those listed in Typical Works Projects lists.                                                                                                                                                                                                              | ✓          | *                                         | ✓                                | ✓            | ✓                    |
| Project Management                                                                                              | A minimum of 1 (one) registered professional Construction Project Manager (PrCPM) or Project Management Professional (PMP) or other proven equivalent registration, with at least 8 (eight) years verifiable postgraduate experience in the management of all works related to all types of construction works similar to those listed in Typical Works Projects lists.                                                                                                                                                                                                                 | ✓          | ✓                                         | ✓                                | ✓            | ✓                    |

| KEY PERSONNEL                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                                           |                                  |              |                      |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------|----------------------------------|--------------|----------------------|
| NOTE: Refer to Clauses 2.1, 2.2, 2.3, 2.4 and 2.5 in Part C3.1: Scope of Work for Typical Works Projects lists. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                                           |                                  |              |                      |
| Service                                                                                                         | Profession                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Branch     |                                           |                                  |              |                      |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Bulk Water | Catchment Stormwater and River Management | Engineering and Asset Management | Reticulation | Wastewater Treatment |
| Occupational Health and Safety                                                                                  | A minimum of 1 (one) professional Construction Health and Safety Agent (PrCHSA) registered with the South African Council for Project and Construction Management Professions (SACPCMP) with the necessary competencies and resources to act as the Employer's Agent in terms of the Occupational Health and Safety Act.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ✓          | ✓                                         | ✓                                | ✓            | ✓                    |
| Environmental                                                                                                   | A minimum of 1 (one) Environmental Assessment Practitioner (EAP) registered with the Environmental Assessment Practitioner's Association of South Africa (EAPASA) or who meets the criteria for registration (and has applied for registration) with the Environmental Assessment Practitioner's Association of South Africa (EAPASA). The EAP must have at least 8 (eight) years verifiable experience in the undertaking of all environmental works related to all types of construction work similar to those listed in the Typical Works Projects lists. The EAP must have acted in a lead role in at least (2) two Full Scoping/Environmental Impact Assessment (EIA) reports and at least (5) five Basic Assessments of a project or type proven to the Typical Works Projects list. | ✓          | ✓                                         | ✓                                | ✓            | ✓                    |
| Freshwater Ecologist                                                                                            | A minimum of 1 (one) Freshwater Ecologist registered with the South African Council for Natural Scientific Professions (SACNASP) or other proven equivalent registration with at least 8 (eight) years verifiable postgraduate experience in this specialised field and specifically providing aquatic ecological advisory services and undertaking all work necessary to acquire the authorisations (including General Authorisations or Water Use Licences) or permits required in terms of the National Water Act No. 36 of 1998.                                                                                                                                                                                                                                                       | ✓          | ✓                                         |                                  | ✓            | ✓                    |

Key personnel will be expected to operate out of the local office, as the exigencies of this project require.

Should it become necessary to replace any of the key personnel listed at the time of tender during the course of this contract, they may only be replaced by individuals with similar or better qualifications and experience, who satisfy the minimum requirements and then only with the written approval of the Employer. (Note that 'verifiable experience' is interpreted as experience in that particular service. This must be clearly demonstrated in the CVs provided. Postgraduate years of experience is defined as experience gained from the time of obtaining a baccalaureus qualification).

## **11. MANAGEMENT MEETINGS**

### **11.1 Management Meetings**

During the initial stages of projects (Planning, Studies, Investigations and Assessments; Inception; Concept and Viability and Design Development) the Service Provider will be expected to attend monthly management meetings with the Employer's project management team (PMT), convened for the purpose of managing these projects. The Project Leader will present the Service Provider's proposals at these meetings, and take direction from the PMT in this regard.

### **11.2 Community/Stakeholder Meetings**

The Service Provider will also be expected to contribute to and attend community/stakeholder meetings, presenting proposals at these forums, and taking cognisance of input from the various interested and affected parties in the conceptual and detail design development, where possible. It is anticipated that it will be necessary to continue with community/stakeholder participation through the construction period, including to respond to any individual queries/concerns that may be raised.

### **11.3 Supply Chain Management (SCM) Committee Meetings**

During the course of the Documentation and Procurement stage, the Service Provider shall attend and participate in the SCM Bid Specification and Bid Evaluation Committee meetings in order to present the contract document and tender evaluation report to the Employer.

The Service Provider shall plan to attend two BSC meetings and two BEC meetings. The number of meetings can vary depending on the complexity and extent of interest shown in the tender.

### **11.4 Site/Technical Meetings**

During the Contract Administration and Inspection stage of these projects, the Service Provider shall convene and run monthly site meetings at which the Employer and contractor will be present, as well as any technical meetings with the contractor as may be required to ensure the successful implementation of these projects.

### **11.5 Ad-hoc Meetings**

The Service Provider will be expected to attend ad-hoc meetings from time to time, with the Employer, stakeholder groups, or service or other authorities, in order to address specific issues as and when the need arises.

### **11.6 General**

The Service Provider shall be represented at all meetings by at least one of the key personnel, preferably the Project Leader. The Service Provider shall provide secretarial services (for record keeping purposes) at all management, community/stakeholder, site/technical, and ad-hoc meetings.

All charges in respect of the provision of secretarial services shall be deemed to be included in the tendered Time-based fees.

## **12. CLAIMS FOR PAYMENT**

The Service Provider may submit interim claims for payment (invoices) as the work in terms of this contract progresses, but not more frequently than at monthly intervals. All interim claims must be accompanied by an original tax invoice. Payment will be effected within 30 days of the date on the tax invoice.

## **13. EMPLOYER'S RIGHT TO RECOVER COSTS**

The Employer reserves the right to recover, by way of a deduction from any amount due to the Service Provider, any additional cost which the Employer incurs arising out of non-performance/negligence of the Service Provider.

#### 14. INTELLECTUAL PROPERTY RIGHTS AND CONFIDENTIALITY

Any intellectual property (including but not limited to source documents, designs, maps, drawings, reports, statistics, recordings, photography, computer software, electronic documents, etc.) that may result from the project will be the sole property of the City of Cape Town.

In alignment with the above, any information arising from or within a project will be treated as confidential and no information is to be divulged, provided to or mentioned to persons or parties not involved in the project except where permission is granted in writing for that specific purpose.

CITY OF CAPE TOWN

WATER AND SANITATION

CONTRACT NO. 194C/2020/21

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

## C3.2 Annexes

ANNEX 1: SCHEDULE OF DEVIATIONS

ANNEX 2: SCHEDULE 11: KEY PERSONNEL [Extracted from tender submission]

ANNEX 3: SCHEDULE 11(A): SPECIFIC EXPERIENCE OF KEY PERSONNEL [Extracted from tender submission]

ANNEX 4: SCHEDULE 12: SUPPORT RESOURCES [Extracted from tender submission]

ANNEX 5: SCHEDULE 18: ADDITIONAL PERSONNEL SCHEDULE [Extracted from tender submission]

ANNEX 6: SCHEDULE 19: ORGANISATIONAL STRUCTURE [Extracted from tender submission]

ANNEX 7: SCHEDULE 23: PREFERENCE SCHEDULE TO BE USED IN TERMS OF THE AMENDED CODES FOR MEASURING BROAD-BASED BLACK ECONOMIC EMPOWERMENT IN THE CONSTRUCTION SECTOR (2017) [Extracted from tender submission]

ANNEX 8: B-BBEE SUB-CONTRACT EXPENDITURE REPORT

## ANNEX 1

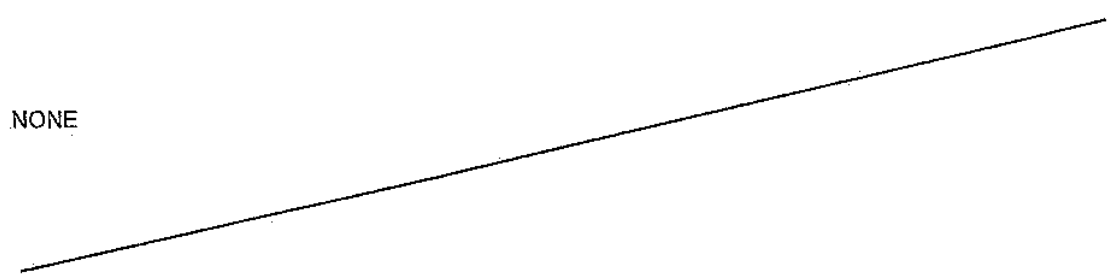
### SCHEDULE OF DEVIATIONS

## Schedule of Deviations

### Notes:

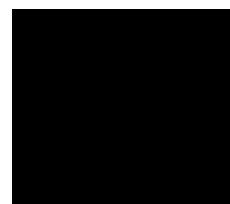
1. The extent of deviations from the tender documents issued by the Employer before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which 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.
3. 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.
4. 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.

NONE



By the duly authorised representatives signing the Contract Agreement, the Employer and the Service Provider agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents, as well as any confirmation, clarification or changes to the terms of the offer agreed to by the Employer and the Service Provider 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 Service Provider of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.



## ANNEX 2

### SCHEDULE 11: KEY PERSONNEL

CITY OF CAPE TOWN

WATER AND SANITATION

CONTRACT NO. 194C/2020/21

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

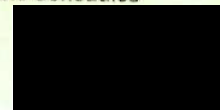
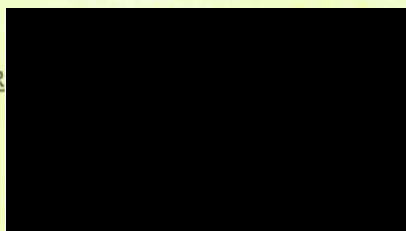
**SCHEDULE 11: KEY PERSONNEL**

The tenderer is referred to Clause C.2.1.4.2 of the Tender Data and shall insert in the spaces provided below a list of the key personnel required to be in the employment of the tenderer or a specialist consultant/firm, in order for the tenderer to be eligible to submit a tender for this project. Copies of all applicable signed undertakings from specialist consultants/firms having the required personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of sub-consultant agreements must be attached to this Schedule. The details of the proposed key personnel and a Curriculum Vitae for each individual shall be appended to Schedule 11A. **Different individuals must be identified for each of the key personnel listed below. The Service Provider may propose to use the same key personnel for different branches when tendering to provide multidisciplinary professional services for more than one branch.**

| SERVICE                                                                                                     | NAME | EMPLOYER (COMPANY)  |
|-------------------------------------------------------------------------------------------------------------|------|---------------------|
| Civil Engineering Services<br>(Minimum 2 professionals)                                                     |      | JG AFRICA (PTY) LTD |
|                                                                                                             |      | JG AFRICA (PTY) LTD |
| Structural Engineering Services<br>(Minimum 2 professionals)                                                |      | JG AFRICA (PTY) LTD |
|                                                                                                             |      | JG AFRICA (PTY) LTD |
|                                                                                                             |      | JG AFRICA (PTY) LTD |
| Mechanical Engineering Services<br>(Minimum 2 professionals)                                                |      | PROJECT ASSIGNMENTS |
|                                                                                                             |      | CA DU TOIT          |
| Electrical Engineering Services<br>(Minimum 2 professionals)                                                |      | CA DU TOIT          |
|                                                                                                             |      | PMC                 |
| Electronic Engineering Services<br>(Minimum 1 professional)                                                 |      | CA DU TOIT          |
| Process Design Engineer "A"<br>(Minimum 1 professional)<br>(Bulk Water Branch only)                         |      | JG AFRICA (PTY) LTD |
| Process Design Engineer "D"<br>(Minimum 1 professional)<br>(Wastewater Treatment Branch only)               |      | JG AFRICA (PTY) LTD |
| Hydraulic Engineer "A"<br>(Minimum 1 professional)<br>(Bulk Water Branch only)                              |      | JG AFRICA (PTY) LTD |
| Hydraulic Engineer "B"<br>(Minimum 1 professional)<br>(Reticulation and Wastewater Treatment Branches only) |      | JG AFRICA (PTY) LTD |

| SERVICE                                                                                                                                                                  | NAME | EMPLOYER (COMPANY)       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| Hydraulic Engineer "C"<br>(Hydrology and open channel hydraulics and engineering)<br>(Minimum 1 professional)<br>(Catchment Stormwater and River Management Branch only) |      | JG AFRIKA (PTY) LTD      |
| Geohydrologist<br>(Minimum 1 professional)<br>(Bulk Water Branch only)                                                                                                   |      | JG AFRIKA (PTY) LTD      |
| Quantity Surveying Services<br>(Minimum 1 professional)                                                                                                                  |      | BERG ERASMUS             |
| Architectural Services<br>(Minimum 1 professional)                                                                                                                       |      | COLAB CONCEPTS (PTY) LTD |
| Project Management Services<br>(Minimum 1 professional)                                                                                                                  |      | JG AFRIKA (PTY) LTD      |
| Occupational Health and Safety Services<br>(Minimum 1 professional)                                                                                                      |      | SAFE WORKING PRACTICE    |
| Environmental Assessment Practitioner<br>(Minimum 1 professional)                                                                                                        |      | JG AFRIKA (PTY) LTD      |
| Freshwater Ecologist<br>(Minimum 1 professional)<br>(Bulk Water, Catchment Stormwater and River Management, Reticulation and Wastewater Treatment Branches only)         |      | BILLIE SCIENCE           |

SIGNED ON BEHALF OF TENDERER



## ANNEX 3

### SCHEDULE 11(A): SPECIFIC EXPERIENCE OF KEY PERSONNEL

**TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN**

**SCHEDULE 11A: KEY PERSONNEL**

The Tenderer is referred to clause C.2.1.4.2 of the Tender Data and shall insert in the spaces provided below details of the key personnel required to be in the permanent employment of the tenderer at the close of tender. Alternatively, signed undertakings from specialist consultants/firms having the required personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of sub-consultant agreements, will be acceptable.

Different individuals must be identified for each of the services required below. The Service Provider may propose to use the same key personnel for different branches when tendering to provide multidisciplinary professional services for more than one branch. The Curriculum Vitae (CV) of each individual must be appended to this schedule.

Note: For the Process Design Engineer "A" and "D", the Hydraulic Engineer "A" and "B" and the Environmental Assessment Practitioner, particular information is required as part of Schedule 11A.

**CIVIL ENGINEERING SERVICES (MINIMUM 2 PROFESSIONALS)**

| <b>CIVIL ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                                               |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------|--------------------------------------|
| <b>1.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                               |                                      |
| EMPLOYER AND CURRENT JOB TITLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | QUALIFICATIONS AND DATES | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |
| JG Afrika<br>Executive Associate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PrEng, BSc (Civ Eng)     | ECSA [REDACTED]<br>PrEng                      | 15                                   |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                               |                                      |
| After completing a <b>BSc (Eng) in Civil Engineering at UCT, Duane</b> joined JG Afrika in 2005. He was responsible for a wide range of work related to the management and design of water supply schemes and associated works. He has specialized in hydraulic modelling and design and is currently undertaking a Masters in the subject at UCT. He is a specialist in SWMM modelling of complex hydraulic system. He has also used SWMM to model sewer networks and is also proficient in WADISO and surge analysis. |                          |                                               |                                      |

| <b>CIVIL ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                               |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------|--------------------------------------|
| <b>2.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                               |                                      |
| EMPLOYER AND CURRENT JOB TITLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | QUALIFICATIONS AND DATES | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |
| JG Afrika<br>Senior Design Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pr. Tech Eng<br>BTech    | ECSA [REDACTED]<br>PrTechEng                  | 11                                   |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                               |                                      |
| [REDACTED] has specialized experience in water and wastewater treatment technology, designing water treatment plants and distribution systems in Southern Africa as well as wastewater. Key competency in this field includes: water treatment process selection, sizing and design, slow sand filters, rapid sand filters, high rate slow sand filters, (a thesis was also successfully completed in membrane treatment technology), hydraulic design, water treatment chemistry, pump station design, pressure pipeline design, gravity pipeline design, |                          |                                               |                                      |

water hammer analysis, water abstraction (river intake and boreholes), hydro-pneumatic pressure vessel sizing, and clariflocculator design. Experience further extended to wastewater treatment process reviewing and the design of wastewater treatment plant hydraulics.

3. CIVIL ENGINEER/TECHNOLOGIST (NAME): [REDACTED]

| EMPLOYER AND CURRENT JOB TITLE | QUALIFICATIONS AND DATES | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |
|--------------------------------|--------------------------|-----------------------------------------------|--------------------------------------|
| JG Afrika<br>Associate         | PrEng, BSc (Civ Eng)     | ECSA                                          | 9                                    |

RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS

[REDACTED] joined the eThekwin municipality, where she gained experience in the wastewater treatment works - design department. She was exposed to Autocad as well as Civil Designer. She later joined **JG Afrika** in the municipal division specializing in Wastewater. Her key experiences are in preliminary design duties, detailed design, and preparation of tender documents, adjudication and construction monitoring.

She has also been involved in the complying of ERWAT process audits for 15 of their wastewater treatment works and the development of the sludge management plans for 42-wastewater treatment works for the Department of Public Works.



**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**STRUCTURAL ENGINEERING SERVICES (MINIMUM 2 PROFESSIONALS)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |                                                      |                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>1. STRUCTURAL ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                                                      |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>QUALIFICATIONS AND DATES</b>                 | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b> | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| JG Afrika<br>Technical Director Structures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pr Tech Eng, M. Eng NHD (Civ Eng), ND (Civ Eng) | ECOSA [REDACTED]<br>PrTechEng [REDACTED]             | 28                                          |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |                                                      |                                             |
| <p>[REDACTED] is a professionally registered civil engineering technologist specializing in the design, documentation and site supervision of building, industrial and civil structures. He has performed numerous structural condition assessments of buildings and other structures. He is conversant with a wide range of structural engineering design codes, civil engineering codes of practice and building technology regulations. [REDACTED] key experience is in the design, detailing and site supervision of reinforced concrete, structural steel, masonry, aluminium and timber structures. He has a good working knowledge of civil engineering practice and environmentally sustainable building technology.</p> |                                                 |                                                      |                                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                                                      |                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>2. STRUCTURAL ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                                                      |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>QUALIFICATIONS AND DATES</b>    | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b> | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| JG Afrika<br>Snr. Structural Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pr Eng C Eng Pr CPM BSc (Hons) Eng | ECOSA [REDACTED]<br>PrEng [REDACTED]                 | 42                                          |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |                                                      |                                             |
| <p>[REDACTED] is a professionally registered Structural Engineer and has 40 years experience. He leads the <del>Jeffares &amp; Green Building Structures</del> section, based in Cape Town. He specialises in the design, contract administration and/or project management of major reinforced concrete and structural steel buildings and civil works. His professional opinion is often required for structural integrity reports. He has served as The Engineer and Lead Consultant on several projects. His key experience includes: Public buildings i.e. Eskom buildings, hospitals, schools, magistrates courts, fire stations ;Design of multi-storey commercial buildings; local and regional shopping centres; restoration and forensic engineering; reservoirs and water retaining structures; bridge structures; industrial buildings including mine structures. 34 of the 40 years have been spent as a consulting engineer whilst his first four years were spent contracting on two major projects in the Eastern Cape i.e. the Steve Biko Bridge, East London and the Umtata Hydro-Electric Scheme.</p> |                                    |                                                      |                                             |

**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)****MECHANICAL ENGINEERING SERVICES (MINIMUM 2 PROFESSIONALS)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                                      |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>1. MECHANICAL ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                                                      |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>QUALIFICATIONS AND DATES</b>     | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b> | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| Project Assignments (SA) (Pty) Ltd<br>Senior Mechanical Engineer / Proposals Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PrEng<br>BSc (Mech) Eng<br>1989 UCT | Pr. Eng [REDACTED]                                   | 10                                          |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                                      |                                             |
| <ul style="list-style-type: none"> <li>Investigation and selection of suitable manufacturing technologies for different process requirements</li> <li>Development of Project CAPEX requirements</li> <li>Detailed Equipment &amp; Material selection criteria specifications,</li> <li>Preparation of Detailed Mechanical Specifications for tender</li> </ul> <p>Member of the professional team on previous CoCT appointment 140C &amp; 35C<br/>         Mechanical Engineer on Hammersdale WWTP upgrade for EWS<br/>         Mechanical Engineer for Greenfields WWTP in Nhlanguano eSwatini</p> |                                     |                                                      |                                             |

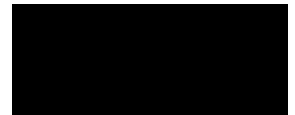
|                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                                      |                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>2. MECHANICAL ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                  |                                         |                                                      |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                                                                                                                                                                                                                                                                                                                                          | <b>QUALIFICATIONS AND DATES</b>         | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b> | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| CA Du Toit<br>Mechanical Technologist and Fire Engineer                                                                                                                                                                                                                                                                                                                        | PrTech Eng<br>B.Tech Mechanical<br>1999 | ECOSA [REDACTED]<br>SAQCC [REDACTED]                 | 12                                          |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                   |                                         |                                                      |                                             |
| <p>Mechanical Ventilation, Domestic Water Design, Rational Fire Design, Hot Water Reticulation Systems, Integrated Waste Management</p> <ul style="list-style-type: none"> <li>IGA Africa various WWTW projects – Athlone, Borchards Quarry, Melkbos, Simons Town, Cape Flats, Mitchells Plain</li> <li>Nhlanguano WWTW</li> <li>CoCT 35C Waste Master Term Project</li> </ul> |                                         |                                                      |                                             |



**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)****ELECTRICAL ENGINEERING SERVICES (MINIMUM 2 PROFESSIONALS)**

| <b>1. ELECTRICAL ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                             |                                               |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------|--------------------------------------|
| EMPLOYER AND CURRENT JOB TITLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                | QUALIFICATIONS AND DATES                                    | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |
| CA Du Toit<br>Director and Electrical Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                | PrEng<br>B.Eng Electrical – 1991<br>M.Eng Electrical – 1994 | ECSA<br>PrEng [REDACTED]                      | 24                                   |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                             |                                               |                                      |
| <p>Electrical engineering contracts, MV Infrastructure and reticulation, various WWTW projects, Waste to Energy</p> <ul style="list-style-type: none"> <li>• CoCT Sludge Dewatering Project – Mitchells Plain and Borchers Quarry</li> <li>• Tsolo WWTW</li> <li>• Villiersdorp WWTW</li> <li>• JGA Africa various WWTW projects – Athlone, Borchers Quarry, Melkbos, Simons Town, Cape Flats, Mitchells Plain</li> <li>• Nhlalanga WWTW</li> </ul> <p>CoCT 35C Waste Master Term Project</p> |                                                             |                                               |                                      |

| <b>2. ELECTRICAL ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                               |                            |                                               |                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|--------------------------------------|
| EMPLOYER AND CURRENT JOB TITLE                                                                                                                                                                                                                                                                                                              | QUALIFICATIONS AND DATES   | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |
| PMC<br>Electrical Engineer                                                                                                                                                                                                                                                                                                                  | PrEng<br>BSc (Electr. Eng) | ECSA<br>PrEng [REDACTED]                      | 20                                   |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                |                            |                                               |                                      |
| <p>Design, specification and supervision of electrical engineering services for HV power systems, MV reticulation, Power distribution, power system simulation and protection, reticulation, UPS and standby generators, building lighting and power, security, CCTV and access control.</p> <p>Industrial and public sector facilities</p> |                            |                                               |                                      |



**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)****ELECTRONIC ENGINEERING SERVICES (MINIMUM 1 PROFESSIONAL)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                                                      |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>1. ELECTRONIC ENGINEER/TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                                      |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>QUALIFICATIONS AND DATES</b> | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b> | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| CA Du Toit<br>Electronic Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pr Eng<br>B. Eng Electrical     | ECSA<br>Pr Eng<br>[REDACTED]                         | 19                                          |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                                                      |                                             |
| Design, specify, implement and commissioning of Large and medium SCADA systems for telemetry and automation networks, fibre optic wide area networks, Automatic Fare Collection systems, Automatic Number Plate Recognition systems, Remote traffic monitoring systems, Large format Video Walls for public transport control rooms, Intelligent Transport Systems, Urban and Localized CCTV systems and Control and Operational Rooms, Joint Operational Centres, Small and medium VOIP networks, , Wide area VHF and UHF RF Voice networks both analogue and digital |                                 |                                                      |                                             |



**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONT'D)**

**PROCESS DESIGN ENGINEER "D" (MINIMUM 1 PROFESSIONAL)  
(WASTEWATER TREATMENT BRANCH ONLY)**

| 1. PROCESS DESIGN ENGINEER "D" (NAME):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EMPLOYER AND CURRENT JOB TITLE | QUALIFICATIONS AND DATES | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|-----------------------------------------------|--------------------------------------|
| JG Afrika (Pty) Ltd<br>Technical Director                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                | BSc (Civ Eng) 1994       | PrEng [REDACTED]                              | 23                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | MSc (Civ Eng) 1997       |                                               |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |                          |                                               |                                      |
| <b>RELEVANT FIELDS OF SPECIALIZATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |                          |                                               |                                      |
| <p>The majority of [REDACTED] experience has been in water and wastewater engineering, beginning with a study of the sewage treatment plant at Victor Verster prison in 1998. He has undertaken numerous process designs for new plants and upgrades of existing treatment plants throughout South Africa. He has undertaken all aspects of the design and overall project management of treatment plant upgrades and waste management projects. Notable projects include the Borchers Quarry water reuse plant for the City of Cape Town's managed aquifer recharge scheme and the Vissershok leachate treatment plant, the 3rd of its kind in the world and the first in Africa.</p> <p>Recent project experience includes the Potsdam Effluent Reuse treatment plants and the Stellenbosch University Greywater reuse scheme, which won the 2019 Regional SAICE award. He was also responsible for the Bayside Mall waste-to-energy project which won the 2015 Energy Efficiency Forum Award.</p> <p>He is a Department of Water Affairs Green Drop lead inspector.</p> |                                |                          |                                               |                                      |

**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 1. Hammarsdale WWTW upgrade – New inlet works, dewatering facility and washwater system                                                                                                                                                                                                                      |    |       | DURATION OF PROJECT/TASK                                         | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|------------------------------------------------------------------|------------------|----------------|-------------------|
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                                                                                                                                                                                                                                              | 13 | M/day | DURATION OF PERSONAL INVOLVEMENT IN DESIGN WORK / TASK / PROJECT | Feb 2020         | Ongoing        |                   |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                                                                                                                                                              | 13 | M/day | CLIENT REFERENCE & CONTACT DETAILS                               | Feb 2020         | Ongoing        |                   |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Preliminary Design of inlet works and dewatering facility</li> <li>Detailed Design of inlet works and dewatering facility</li> <li>Process Design of inlet works</li> <li>Project Management of whole project</li> <li>Technical Director of whole project</li> </ul> |    |       |                                                                  |                  |                |                   |

**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

| PROJECT / TASK DESCRIPTION                                                                                                                                           |  | CAPACITY OF PLANT                                                                                                                                                                                                                                                                             |    | DURATION OF PROJECT/TASK | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------|------------------|----------------|-------------------|
| 2. Macassar WWWTW – New inlet works bypass and clarifier repair                                                                                                      |  |                                                                                                                                                                                                                                                                                               |    |                          |                  |                |                   |
| CAPACITY OF PLANT                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                               | 35 | M/day                    | Jul 2015         | May 2020       | 58                |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |  |                                                                                                                                                                                                                                                                                               | 0  | M/day                    | Jul 2015         | Feb 2017       | 20                |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review; design of a particular portion of the works, etc.) |  | <ul style="list-style-type: none"> <li>Preliminary Design of inlet works bypass and clarifier repair/rebuild</li> <li>Detailed Design of inlet works bypass and clarifier repair/rebuild</li> <li>Project Management of whole project</li> <li>Technical Director of whole project</li> </ul> |    |                          |                  |                |                   |

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 3. Borchers Quarry Degritters                                                                                                                                                                                                  |    | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------|----------------|-------------------|
|                                                                                                                                                                      |                                                                                                                                                                                                                                |    |                  |                |                   |
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                                                                                                                                                                | 35 | Jul 2015         | May 2020       | 59                |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                                                                                | 10 | Jul 2015         | Jun 2018       | 36                |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Preliminary Design of inlet works</li> <li>Detailed Design of inlet works</li> <li>Project Management of design and procurement</li> <li>Technical Director of whole project</li> </ul> |    |                  |                |                   |

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 4. Process Audits for Vlakplaats and Waterval WWTW                                                                                                                                                                                                                                 |                    | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|----------------|-------------------|
|                                                                                                                                                                      | CAPACITY OF PLANT                                                                                                                                                                                                                                                                  | 94 & 188<br>Ml/day |                  |                |                   |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                                                                                                                                    | Ml/day             |                  |                |                   |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Process Audits for two WWTW to as part of Green Drop criteria (Vlakplaats = 94 Ml/d &amp; Waterval = 188 Ml/d)</li> <li>Analysis of process designs</li> <li>Analysis of plant performance to process design and recommendations</li> </ul> |                    |                  |                |                   |

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 5. ERWAT process Audits for 13 WWTW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |        | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|------------------|----------------|-------------------|
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | See Below | Ml/day | Oct 2015         | Mar 2016       | 6                 |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Ml/day | Oct 2015         | Mar 2016       | 6                 |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Process Audits for two WWTW to as part of Green Drop criteria for 13 WWTW varying in size. The largest are:                             <ul style="list-style-type: none"> <li>Olifantsfontein 67 Ml/d</li> <li>Hartebeesfontein 40 Ml/d</li> <li>JP Marais 18 Ml/d</li> <li>Welgedacht 26 Ml/d</li> <li>Jan Smuts 10.5 Ml/d</li> <li>Herbert Bickley 10.2 Ml/d</li> </ul> </li> <li>Analysis of process designs</li> <li>Analysis of plant performance to process design and recommendations</li> </ul> |           |        |                  |                |                   |

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 6. Conceptual Design for Zandvliet, Macassar, Kraaifontein and Scottsdene WWTW                                                                                                                                                                                                                                                             |                 |        | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|-------------------|
|                                                                                                                                                                      | CAPACITY OF PLANT                                                                                                                                                                                                                                                                                                                          | 140, 86, 30, 27 | MI/day |                   |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                                                                                                                                                                                            | 50, 32, 15, 15  | MI/day |                   |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Preliminary Process Design of upgrades as follows:                             <ul style="list-style-type: none"> <li>Zandvliet: 90 MI/d to 140 MI/d</li> <li>Macassar: 54 MI/d to 86 MI/d</li> <li>Kraaifontein: 15 MI/d to 30 MI/d</li> <li>Scottsdene: 12 MI/d to 27 MI/d</li> </ul> </li> </ul> |                 |        |                   |

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 7. Various Improvements to Borchers Quarry WWTW                                                                                                                                                                                                                                                     |    |        |  | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------|--|------------------|----------------|-------------------|
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                                                                                                                                                                                                                                     | 35 | Ml/day |  | Jan 2013         | Mar 2015       | 26                |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                                                                                                                                                     |    | Ml/day |  | Jan 2013         | Mar 2015       | 26                |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Preliminary Design of pipework, solids trap, pumps and wastewater system</li> <li>Detailed Design of pipework, solids trap, pumps and wastewater system</li> <li>Project Management of whole project</li> <li>Technical Director of whole project</li> </ul> |    |        |  |                  |                |                   |

der  
T2: Returnable Documents  
Reference No. 194C/2020/21

T2.222  
Returnable Schedules

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 8. Preliminary design for new Inlet Works at Cape Flats WWTW                        |     |        |  | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|--------|--|------------------|----------------|-------------------|
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                     | 200 | MI/day |  | Jan 2019         | Jun 2019       | 6                 |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                     |     | MI/day |  | Jan 2019         | Jun 2019       | 6                 |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Preliminary Design of inlet works</li> </ul> |     |        |  |                  |                |                   |

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 9. Various Improvements at Borchards Quarry WWTW                                                                                                                                                                                                                                                                                                                               |    |        | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------|------------------|----------------|-------------------|
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                | 35 | Ml/day | Feb 2009         | Oct 2011       | 32                |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                |    | Ml/day | Feb 2009         | Oct 2011       | 32                |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Preliminary Design of belt press, aerobic sludge digester, PST scum removal and other improvements</li> <li>Process Design of belt press, aerobic sludge digester and other improvements</li> <li>Detailed Design of belt press, aerobic sludge digester and other improvements</li> <li>Project Management of whole project</li> </ul> |    |        |                  |                |                   |

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 10. Northern Works WWTW – New aerators                                                                                                                                                                   |     |        | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|------------------|----------------|-------------------|
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                                                                                                                                          | 200 | MI/day | Oct 2002         | Jun 2004       | 20                |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                                                          |     | MI/day | Oct 2002         | Jun 2004       | 20                |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Preliminary Design of 16 Aerators (110kW and 75 kW)</li> <li>Process Design for aerator sizing</li> <li>Project Management of design and specification</li> </ul> |     |        |                  |                |                   |

(Duplicate for additional projects)

PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 11. Northern Works WWTW – New Chlorine Contact Tank                                                                                                                 |     |       | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|------------------|----------------|-------------------|
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                                                                                                     | 260 | M/day | Nov 2003         | Sep 2005       | 22                |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 |                                                                                                                                                                     | 60  | M/day | Nov 2003         | Sep 2005       | 22                |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"><li>• Preliminary and detailed design</li><li>• Process sizing</li><li>• Project Management of design and specification</li></ul> |     |       |                  |                |                   |

T2.226  
Returnable Schedules

Under  
Part T2: Returnable Documents  
Reference No. 194C/2020/21

**PARTICULAR EXPERIENCE: PROCESS DESIGN ENGINEER "D"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                                                                                                           | 12. Northern Works WWTW – New Degritters                                                                                                                                                                          |        |  | Start month/year | End month/year | Duration (Months) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|------------------|----------------|-------------------|
| CAPACITY OF PLANT                                                                                                                                                    |                                                                                                                                                                                                                   |        |  |                  |                |                   |
|                                                                                                                                                                      | 150                                                                                                                                                                                                               | MI/day |  | Oct 2002         | Jun 2004       | 20                |
| IF AN UPGRADE / EXPANSION, STATE ADDITIONAL CAPACITY OF PROJECT/TASK                                                                                                 | 150                                                                                                                                                                                                               | MI/day |  | Oct 2002         | Jun 2004       | 20                |
| DETAILS OF INVOLVEMENT & RESPONSIBILITY (e.g. preliminary design, detailed design, process design, design review, design of a particular portion of the works, etc.) | <ul style="list-style-type: none"> <li>Preliminary design of 150 MI/d vortex degritters</li> <li>Detailed design of 150 MI/d vortex degritters</li> <li>Project Management of design and specification</li> </ul> |        |  |                  |                |                   |

**HYDRAULIC ENGINEER "A" (MINIMUM 1 PROFESSIONAL)  
(BULK WATER BRANCH ONLY)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                               |                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------|--------------------------------------|--|
| 1. HYDRAULIC ENGINEER "A" (NAME): [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                                               |                                      |  |
| EMPLOYER AND CURRENT JOB TITLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | QUALIFICATIONS AND DATES | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |  |
| JG Afrika (Pty) Ltd<br>Senior Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B.Eng 1983               | Pr Eng<br>EC-SA<br>[REDACTED]                 | 34                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | M.Eng 1985               |                                               |                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MBA 1998                 |                                               |                                      |  |
| RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                               |                                      |  |
| <p>[REDACTED] – Below is an abstraction of projects on CV with larger diameter pipelines or pipelines requiring more skilled approach as hydraulic engineer:</p> <p><b>Jamestown bulk sewer rising main, Stellenbosch</b> – New sewer pump station and rising main 400mm diameter towards the Stellenbosch Waste Water treatment Works. The pipe route included river crossings below riverbeds and pipe bridge above flood lines and road and rail crossings by directional drilling and micro-tunnelling. New gravity feed through existing estate and farms towards the pump station is 355mm diam. (4.9 km 400mm diameter HDPE rising Main, 1.7km 355mm diam uPVC gravity).</p> <p><b>Retreat bulk sewer rising main, Cape Town</b> – Replacement of an active bulk sewer rising main towards the Cape Flats Waste Water treatment Works. (2.1 km 600mm diameter GRP rising Main)</p> <p><b>Hugh Dent bulk collection sewer Pump Station and Rising Main, Ballito KZN</b> – New regional collection sewer pump station as main bulk pump station to transfer sewer to a different Waste Water Treatment Works. (2.15 km 500-600mm diameter GRP rising Main)</p> <p><b>Shualba Port, Kuwait</b> – Replacement of existing services, study of salt and fresh water supply systems of approximately 29km pipelines (500mm diameter steel 1.6km, 600mm steel 0.35km)</p> <p><b>UJAMI water reclamation plant Windhoek.</b> - A Design and Construct project. The plant has mostly subsurface reinforced concrete component of up to 7m deep with process buildings on top in structural steel and reinforced concrete. (500-600mm diameter steel rising main and distribution pipes 0.4km)</p> |                          |                                               |                                      |  |

**Two regional bulk water supply schemes in the KZN area** - Some phases are being implemented and the remaining phases will be implemented in the next three years. Components involved are water treatment plants, reservoirs and pump stations involving reinforced concrete structures and some 300km pipe lines (500 – 1200mm diameter; steel GRP and PVC-O) with related structures.

**Hobbsland 5 ML reservoir, KZN.** - A reinforced concrete structure with partitions inside to reserve volumes for certain regions. This is the first reservoir in a series of five ranging from 5 to 15 ML.  
(600 – 700mm diameter rising main; 6.5km)

**Oudtshoorn Bulk Water Integration Study,** - The study was done with Ninham Shand and GLS Consulting, focussing on the hydraulic modelling of the Oudtshoorn bulk supply integrated with the Klein Karoo Rural Water Supply Scheme and the various scenarios of bulk supply combinations. (preliminary design of 19km 500mm diam bulk supply pipes).

**Ou Kloof irrigation scheme Prince Albert** – Feasibility study to replace 22km channels with pipes and expand the 450 ha scheme by 10% . (preliminary planning of 19km 500mm diam bulk supply pipes).

**Boesmanspad Irrigation Scheme** – The 250-500 ha irrigation scheme near Bonnievale is planned on off-channel storage of surplus winter water from the Breede River. A water use application was submitted to DWA, the final size will depend on DWA approval of water use (preliminary design of 6.8km 500mm diam rising mains).

**Ceres/Koekedouw water supply scheme** – The old Ceres dam was replaced by SRK Consultants. As sub consultant this project evolved from temporary groundwater supply and storage to include the 1000mm diameter 5km bulk supply from the dam towards Koekedouw Irrigation Board, Ceres and the hydro-power station.

**Doring River irrigation scheme** (not implemented) – (planning of 75km bulk pipe lines varying in size from 800 – 1500mm in diameter).

**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**PARTICULAR EXPERIENCE: HYDRAULIC ENGINEER "A"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                                | DURATION OF INVOLVEMENT IN PIPELINE DESIGN PROJECT (Start Month/Year) (End Month/Year) | DURATION (Months)                   | PIPE DIAMETER, TYPE & LENGTH                                  | DETAILS OF INVOLVEMENT & RESPONSIBILITY                       | DETAILS OF SURGE ANALYSIS CARRIED OUT | CLIENT REFERENCE & CONTACT DETAILS        |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------|-------------------------------------------|
| Retreat bulk sewer rising main, Cape Town                                 | 2016-2017                                                                              | 12                                  | 2.1 km 600mm diam GRP rising main                             | Design and implementation input as project engineer           | Basic surge analysis                  | City of Cape Town                         |
| Hugh Dent bulk collection sewer Pump Station and Rising Main, Ballito KZN | 2016-2018                                                                              | 20                                  | 2.15 km 500-600mm diam GRP rising Main                        | Design and implementation input as project engineer           | Detail surge analysis                 | Sembcorp Siza Water for Ballito Bay       |
| UJAM water reclamation plant Windhoek                                     | 2016                                                                                   | 12                                  | 500-600mm diam steel rising main and distribution pipes 0.4km | Design, construct and implementation project, design engineer | Basic surge analysis                  | Windhoek Municipality                     |
| Two regional bulk water supply schemes in the KZN Ladismith area          | 2014-2016                                                                              | 36                                  | 300km pipe lines 500 - 1200mm diam, steel GRP and PVC-O       | Design engineer, construction stage input                     | Basic surge analysis                  | Uthukela District Municipality            |
| Jamestown bulk sewer rising main, Stellenbosch                            | April 2019 to date, completion end 2021                                                | 20 months to date, 12 months to go. | 4.9 km 400mm diam HDPE rising main                            | Design and implementation stages as project engineer.         | Basic surge analysis                  | Stellenbosch Municipality (Adriaan Kurtz) |
| Hobsland 5 Ml reservoir and rising main, Ladismith KZN                    | 2014-2015                                                                              | 24                                  | 600 - 700mm diam rising main; 6.5km                           | Design and implementation stages as project engineer          | Detail surge analysis                 | Uthukela District Municipality            |

|                      |      |   |                                                                                               |                                                                                                                  |                      |                          |
|----------------------|------|---|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Shuaiba Port, Kuwait | 2016 | 6 | 29km pipelines<br>uPVC and steel<br>(500mm diameter<br>steel 1.6km,<br>600mm steel<br>0.35km) | Design of replacement of existing<br>services, study of salt and fresh water<br>supply systems – design engineer | Basic surge analysis | Kuwait Harbour Authority |
|----------------------|------|---|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|

Note: List of at least five pipeline projects (including surge analysis) required

**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**HYDRAULIC ENGINEER "B" (MINIMUM 1 PROFESSIONAL)  
(RETICULATION AND WASTEWATER TREATMENT BRANCHES ONLY)**

|                                                           |                                           |                                |                                              |                                               |                                      |
|-----------------------------------------------------------|-------------------------------------------|--------------------------------|----------------------------------------------|-----------------------------------------------|--------------------------------------|
| 1.                                                        | HYDRAULIC ENGINEER "B" (NAME): [REDACTED] | EMPLOYER AND CURRENT JOB TITLE | QUALIFICATIONS AND DATES                     | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |
| JG Afrika (Pty) Ltd<br>Municipal Engineer                 |                                           |                                | BSC CIV DEC 2012<br>University of Cape Town  | ECSA PR Eng – [REDACTED]                      | 8                                    |
|                                                           |                                           |                                | MENG 2020-ongoing<br>University of Cape Town | SAICE [REDACTED]                              |                                      |
|                                                           |                                           |                                |                                              |                                               |                                      |
| RELEVANT FIELDS OF SPECIALIZATION: HYDRAULIC ENGINEER "B" |                                           |                                |                                              |                                               |                                      |

- WADISO modelling
- Surge analysis
- Air valves modelling
- Horizontal and vertical geometric modelling
- Resident engineer on two pipeline projects greater than 1 year in duration.

**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**PARTICULAR EXPERIENCE: HYDRAULIC ENGINEER "B"**

(Duplicate for additional projects)

| PROJECT / TASK DESCRIPTION                                    | DURATION OF INVOLVEMENT IN PIPELINE DESIGN PROJECT (Start Month/Year) (End Month/Year) | DURATION (Months) | PIPE DIAMETER, TYPE & LENGTH   | DETAILS OF INVOLVEMENT & RESPONSIBILITY                                                | DETAILS OF SURGE ANALYSIS CARRIED OUT                                                                                                             | CLIENT REFERENCE & CONTACT DETAILS                               |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------|--------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1. Surge Analysis – Voelvlei rising main                      | Jan 2018-June 2018                                                                     | 6 months          | 1578mm Diameter steel- 80Km    | Perform surge analysis to determine failure points and proposed mitigation of failures | Analysis done using Bentley hammer-pipeline modelled using survey, pipe data provided from as-built data. Pump start and stop analysis performed. | City of Cape Town<br>Schalk van der Merwe<br>(Aurecon)           |
| 2. George rising main                                         | June 2017- Dec 2017                                                                    | 6 months          | 250mm Diameter uPVC- 7.5Km     | Perform surge analysis to determine failure points and proposed mitigation of failures | Analysis done using Bentley hammer-pipeline modelled using survey, pipe data provided from as-built data. Pump start and stop analysis performed. | George LM<br>Stephan Kleynhans<br>(Aurecon)                      |
| 3. Replacement of Bulk Water Pipelines Paarl/Wellington       | Jan 2018 -- June 2018                                                                  | 6 Months          | 355 Diameter HDPE / 600 DN GRP | Contract Admin and site monitoring                                                     |                                                                                                                                                   | Drakenstein Municipality<br>Stephan Kleynhans<br>(Aurecon)       |
| 4. Surge Analysis – Idutywa East Water Supply Scheme, Phase 2 | June 2017- Dec 2017                                                                    | 6 months          | 450mm Diameter uPVC- 10Km      | Perform surge analysis to determine failure points and proposed mitigation of failures | Analysis done using Bentley hammer-pipeline modelled using survey, pipe data provided from as-built data. Pump start and stop analysis performed. | Amathole District Municipality<br>Stephan Kleynhans<br>(Aurecon) |

|                                                 |                      |           |                           |                                                                                                                                                                                                                                        |                                                                                                                                                   |                                               |
|-------------------------------------------------|----------------------|-----------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 5. Cape Flats recharge aquifer pipeline WP 2-8  | Dec 2018 -- Mar 2020 | 15 Months | DN 500-630 Steel 20 km    | Perform surge analysis to determine failure points and proposed mitigation of failures, Design vertical and horizontal pipeline geometry. Model network of 20Kkm of bulk water pipeline in WADISO and associated water infrastructure. | Analysis done using Bentley hammer-pipeline modelled using survey, pipe data provided from as-built data. Pump start and stop analysis performed. | City of Cape Town Francois Els                |
| 6. Cape Flats recharge aquifer pipeline WP 9-14 | Oct 2019 -- Feb 2021 | 15 Months | DN 315-60 HDPE 25Kkm      | Perform surge analysis to determine failure points and proposed mitigation of failures, Design vertical and horizontal pipeline geometry. Model network of 25Kkm of bulk water pipeline in WADISO and associated water infrastructure. | Analysis done using Bentley hammer-pipeline modelled using survey, pipe data provided from as-built data. Pump start and stop analysis performed. | City of Cape Town Francois Els                |
| 7. Ndulinde Water Supply, KwaZulu-Natal         | Jan 2018 -Dec 2018   | 12 Months | DN 75 to DN 250 253Kkm    | Model Reticulation network, provide pressure sustaining and relief options.                                                                                                                                                            |                                                                                                                                                   | City of Cape Town Stephan kleyrhans (Aurecon) |
| 8. Sishen Mine ground water export pipeline     | Jan 2015-Dec 2015    | 12 Months | DN 630 and DN710 HDPE 8km | Detailed Design                                                                                                                                                                                                                        |                                                                                                                                                   | Kumba Iron Ore                                |

Note: List of at least five pipeline projects (including surge analysis) required

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**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)****QUANTITY SURVEYING SERVICES (MINIMUM 1 PROFESSIONAL)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                      |                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>1. QUANTITY SURVEYOR (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                      |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>QUALIFICATIONS AND DATES</b> | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b> | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| BERGH ERASMUS QUANTITY SURVEYORS<br>MEMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BSc (QS)<br>1992                | SACQSP<br>[REDACTED]<br>ASAQS<br>[REDACTED]          | 27                                          |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                      |                                             |
| <p>[REDACTED] has been a practicing consulting quantity surveyor and registered professional since 1993. His experience relates predominantly to commercial, industrial developments, residential and a large variety of government projects.</p> <p>Comparable Projects:<br/>Sub consultant: Term Tender for the Provision of Professional Services: Design, Tender Documentation and Construction Monitoring for Various Facilities within the City of Cape Town (Contract No. 217C/2018/19)</p> |                                 |                                                      |                                             |

**ARCHITECTURAL SERVICES (MINIMUM 1 PROFESSIONAL)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |                                                           |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|
| <b>1. ARCHITECT/SENIOR ARCHITECTURAL TECHNOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |                                                           |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>QUALIFICATIONS AND DATES</b>                      | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b>      | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| COLAB CONCEPTS (PTY) LTD<br>DIRECTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DEGREE OF BACHELOR IN ARCHITECTURE (UCT)<br><br>1981 | SACAP: [REDACTED]<br>SAIA: [REDACTED]<br>CIFA: [REDACTED] | 39                                          |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |                                                           |                                             |
| <p>[REDACTED] has over 40+ years of experience in the architectural field. From 1973 [REDACTED] worked in John Boyd and Associates Architect's office. He graduated from the University of Cape Town in 1981. [REDACTED] established an independent architectural practice in the Western Cape in 1985 called A. Arch CC. A noteworthy project includes GrandWest Casino and Entertainment World. In 2004 he established a company called Frame + Adams Architects and through this company has completed various projects for the Department of Public Works, Cape Town Peninsula University of Technology and Grade Parade Investments.</p> <p>Colab Concepts was established in 2013 and [REDACTED] serves as a director. In association with Jakupa architects, Colab is currently working on Welmoed: low cost housing development. This project entails the creation of 8000 housing opportunities including mixed use economic, learning and commercial facilities. Colab concepts is also currently working on the City of Cape Town's 217C Term Tender which includes multiple solid waste projects varying in size &amp; complexity and ranging from stages 1 to 6. Colab Concepts is also currently working on the New Navarre Male Residence for the Cape Peninsula University of Technology on the Wellington Campus. Colab has been appointed to assess, advise, design and supervise the construction of a new 212 bed male residence.</p> |                                                      |                                                           |                                             |



**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)****PROJECT MANAGEMENT SERVICES (MINIMUM 1 PROFESSIONAL)**

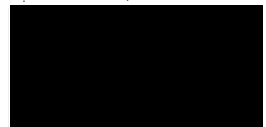
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>1. PROJECT MANAGER (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |                                                      |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>QUALIFICATIONS AND DATES</b>                                    | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b> | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| JG Afrika (Pty) Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BSc (Civil Eng)<br>1978<br><br>Project Management Certificate 2001 | PrEng [REDACTED]<br><br>PrCPM – [REDACTED]           | 39                                          |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |                                                      |                                             |
| <p>[REDACTED] is a highly experience civil engineer and project manager being responsible for the project management of very large civil engineering infrastructure projects including housing development and civil structures. This includes management and PRC duties for large funding agencies such as Old Mutual. His main fields of specialization include feasibility studies, conceptual and detailed planning for land development projects, technical due diligence studies and monitoring, housing, project management, contract administration, design of engineering services, road rehabilitation, urban storm water management and catchment management.</p> <p>Wallacedene Housing Project Phase 10, Kraaifontein - Preliminary planning, sub-division and design review of the rehabilitation of existing municipal services to 1740 erven. Client: City of Cape Town (CoCT).</p> <p>The Hague, Roosendal &amp; Eindhoven Housing Project, Delft - Preliminary planning, sub-division and design review of bulk and internal services to 1400 erven. Client: City of Cape Town (CoCT).</p> <p>Bella Donna Residential Development, Blue Downs - Independent Project Supervisor for overall project comprising 740 units. Client: Mettle Property Solutions.</p> <p>Buh-Rein Housing Development, Kraaifontein - Independent Project Supervisor for overall project comprising 3,510 units. Client: Mettle Property Solutions.</p> |                                                                    |                                                      |                                             |

**OCCUPATIONAL HEALTH AND SAFETY SERVICES (MINIMUM 1 PROFESSIONAL)**

|                                                                   |                                                                                                                                                                                                                                                                 |                                                      |                                             |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>1. CONSTRUCTION HEALTH AND SAFETY AGENT (NAME):</b> [REDACTED] |                                                                                                                                                                                                                                                                 |                                                      |                                             |
| <b>EMPLOYER AND CURRENT JOB TITLE</b>                             | <b>QUALIFICATIONS AND DATES</b>                                                                                                                                                                                                                                 | <b>ASSOCIATION AND PROFESSIONAL REGISTRATION NO.</b> | <b>NO. OF YEARS POSTGRADUATE EXPERIENCE</b> |
| Safe working Practice<br><br>Director                             | SACPCMP -<br>Construction Health & Safety Institute of Safety Management (IOSM), ROSPROF (SA) – Reg no: 0160<br>(CURRENT) South African Institute of Occupational Safety and Health (SAIOSH)<br>Association on Construction Health & Safety Management (ACHASM) | SACPCMP                                              | 24                                          |



|                                                                                                                     |                                                                                                                                                                         |  |  |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                                                                                     | Chartered Safety and Health Practitioner - Institute of Occupational Safety and Health (CMIOSH), United Kingdom<br>Registered Safety Practitioner (RSP), United Kingdom |  |  |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                        |                                                                                                                                                                         |  |  |
| Health and Safety agent, compliance audits, Site inspection and reports, risk assessments, incident investigations. |                                                                                                                                                                         |  |  |



**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**ENVIRONMENTAL SERVICES (MINIMUM 1 ENVIRONMENTAL ASSESSMENT PRACTITIONER)**

| NAME                         |                                  |                                      | NO. OF YEARS POSTGRADUATE EXPERIENCE | 18            |
|------------------------------|----------------------------------|--------------------------------------|--------------------------------------|---------------|
| EMPLOYER & CURRENT JOB TITLE | JG Afrika (Pty) Ltd Associate    |                                      | Qualification                        | Date obtained |
| Registered with EAPASA?      | Yes, Registration No. [REDACTED] | No, but application submitted (date) | MSc Environmental Biotechnology      | 2001          |
|                              |                                  |                                      | BSc Hons (Biochemistry)              | 1997          |
|                              |                                  |                                      | BSc                                  | 1996          |

**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**PARTICULAR EXPERIENCE: ENVIRONMENTAL ASSESSMENT PRACTITIONER**

(Duplicate for additional projects)

| LIST OF RELEVANT PROJECTS<br>(Specify Full Scoping EIA<br>or Basic Assessment)<br>(Note 1)                                                 | DURATION OF PROJECT   |                     | EAPs role in the listed EIA/Assessment | CLIENT REFERENCE &<br>CONTACT DETAILS                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|----------------------------------------|-------------------------------------------------------------|
|                                                                                                                                            | Start<br>(Month/Year) | End<br>(Month/Year) |                                        |                                                             |
| 1. Basic Assessment for the Proposed Erosion Mitigation Interventions on the Blaauwklippen River within the De Zalze Winelands Golf Estate | 2013                  | 2014                | Project Lead and EAP                   | De Zalze Winelands Golf Estate<br>Elke Watson<br>0218802708 |
| 2. Four Basic Assessment Processes for 4 Solar PV Farms in the Western Cape – Bonnievale, Klipheuwel, McGregor & Porterville               | Jan 2013              | Dec 2013            | Project Lead and EAP                   | SunSpot Investments<br>Mr M Bleloch<br>021 425 3040         |

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|                                                                                                                  |          |           |                      |                                                                                                    |
|------------------------------------------------------------------------------------------------------------------|----------|-----------|----------------------|----------------------------------------------------------------------------------------------------|
| 3. Waste Licence and an Environmental Impact Assessment for the Cape Flats Wastewater Treatment Works, Cape Town | Oct 2012 | Aug 2014  | Project Assistant    | SLR Consulting Engineers (Pty) Ltd)<br>" Victoria Tucker<br>Environmental Manager<br>011 467 0945" |
| 4. Waste Licence and Environmental Impact Assessment for the Mitchells Plain Treated Effluent Scheme             | Jan 2013 | June 2014 | Project lead and EAP | City of Cape Town Water Demand Management<br>Mr M Engelbrecht 021 590 1516"                        |

TZ.242  
Returnable Schedules

Order  
Part T2: Returnable Documents  
Reference No. 194C/2020/21

|                                                                                                                                                                                                  |              |            |                      |                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------------|----------------------------------------------------------------------------------------|
| 5. Environmental Impact Assessment for the implementation of the Stellenbosch River Management Plan, including Basic Assessment Processes for the Eerste River, Krom River and Plankenbrug River | January 2013 | March 2014 | Project lead and EAP | Stellenbosch Municipality<br>[REDACTED]                                                |
| 6. Waste Management License and associated Basic Assessment for the proposed extension of the Vredenburg landfill site.                                                                          | October 2015 | April 2017 | Project Manager      | Aurecon South Africa (Pty) Ltd<br>on behalf of Saldanha Bay Municipality<br>[REDACTED] |

T2.243  
Returnable Schedules

Tender  
Part T2: Returnable Documents  
Reference No. 194C/2020/21

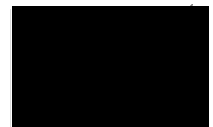
|                                                                                              |             |         |                         |                                                                                   |
|----------------------------------------------------------------------------------------------|-------------|---------|-------------------------|-----------------------------------------------------------------------------------|
| 7. Basic Assessment Process for the Noolensfontein Housing Project for the City of Cape Town | August 2020 | Current | Project Manager and EAP | Ian Rout Associates on behalf of City of Cape Town: Human Settlements Directorate |
|----------------------------------------------------------------------------------------------|-------------|---------|-------------------------|-----------------------------------------------------------------------------------|

Note 1: List of relevant projects for which EAP has undertaken environmental authorisation applications (2 Full Scoping EIAs and 5 Basic Assessments, minimum)

**SCHEDULE 11A: SPECIFIC EXPERIENCE OF KEY PERSONNEL (CONTD)**

**FRESHWATER ECOLOGIST (MINIMUM 1 PROFESSIONAL)**  
**(BULK WATER, CATCHMENT STORMWATER AND RIVER MANAGEMENT, RETICULATION AND WASTEWATER TREATMENT BRANCHES ONLY)**

| <b>1. FRESHWATER ECOLOGIST (NAME):</b> [REDACTED]                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                                               |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|
| EMPLOYER AND CURRENT JOB TITLE                                                                                                                                                                                                                                                                                                                                                                     | QUALIFICATIONS AND DATES                                                    | ASSOCIATION AND PROFESSIONAL REGISTRATION NO. | NO. OF YEARS POSTGRADUATE EXPERIENCE |
| Blue Science (Pty) Ltd<br>Aquatic Scientist                                                                                                                                                                                                                                                                                                                                                        | BSc. (hons) oceanography<br>Masters. (environmental management)<br>May 1998 | Pr. Sci Nat<br>[REDACTED]                     | 27                                   |
| <b>RELEVANT FIELDS OF SPECIALIZATION, EXPERIENCE AND COMPARABLE PROJECTS</b>                                                                                                                                                                                                                                                                                                                       |                                                                             |                                               |                                      |
| Environmental water requirement studies, River maintenance and management plans (MMP), Aquatic ecosystem monitoring and assessments, Design of water quality and monitoring programmes for aquatic ecosystems, compilation of state of River reports (aquatic data collection, interpretation, presentation, graphic layout and design and preparation of technical and glossy print ready copies) |                                                                             |                                               |                                      |



**ANNEX 4**

**SCHEDULE 12: SUPPORT RESOURCES**

**COMPUTER HARDWARE, SOFTWARE AND PRINTERS**

| ITEM     | QUANTITY | DESCRIPTION                                                                              | REMARKS                                                                                           |
|----------|----------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Printers | 88       | Colour Lasers, Deskjet's and Dot-matrix                                                  |                                                                                                   |
| Plotters | 6        | All HP DesignJets, T1200, T1300, T1500, 500, 800 & 1050 series plotters. Sizes up to A0. | 1 per office except PMB and CTN who have 3 each. Again various models.                            |
| Hardware | 18       | Window Servers                                                                           | 1 of which is a SQL Server for SAP - 2016                                                         |
|          | 280      | Workstations – (Laptop and Desktops)                                                     |                                                                                                   |
| Software | 14       | Digital Video Camera                                                                     |                                                                                                   |
|          | 12       | AllyCAD                                                                                  | 2D CAD Package                                                                                    |
|          | 10       | Autodesk AutoCAD                                                                         |                                                                                                   |
|          | 39       | Autodesk AutoCAD LT                                                                      |                                                                                                   |
|          | 35       | Autodesk AEC Collection                                                                  | AutoCAD, Civil 3D, Revit, etc included in collection / suite                                      |
|          | 3        | Bentley Railroad                                                                         |                                                                                                   |
|          | 1        | Bentley Powerdraft                                                                       |                                                                                                   |
|          | 39       | Civil Designers                                                                          | Primary Design Software                                                                           |
|          | 18       | Civilsoft BILL                                                                           | Bill of Quantities package including CESMM3 (SA)                                                  |
|          | 10       | ESRI ArcViews                                                                            | 3D Analysis and Spatial Analysis                                                                  |
|          | 230      | MS Office 365                                                                            | Including MS Teams                                                                                |
|          | 35       | MS SQL CALS                                                                              | Connection Licences                                                                               |
|          | 60       | SAP                                                                                      | Project time and cost accounting package and information system                                   |
|          | 5        | ACRU                                                                                     | Hydrological Modelling of Catchments                                                              |
|          | 1        | CE-QUAL                                                                                  | 2D Water Quality Model                                                                            |
|          | 5        | Daily Rainfall Utility                                                                   | Analysis of rainfall for hydrological modelling                                                   |
|          | 9        | DIPS                                                                                     | Graphical and Statistical Analysis of Orientation Data (Rock masses e.g. on Dam Core Foundations) |

| ITEM               | QUANTITY | DESCRIPTION                                            | REMARKS                                                                      |
|--------------------|----------|--------------------------------------------------------|------------------------------------------------------------------------------|
| Software<br>(cont) | 5        | DTSC Rainfall Utility                                  | Analysis of rainfall for hydrological modelling                              |
|                    | Freeware | EPANET                                                 | Dynamic Water Network Hydraulic Modelling                                    |
|                    | 7        | HEC-RAS                                                | Channel Flow Modelling                                                       |
|                    | 2        | HYTRAN                                                 | Transient Pressures Analysis (Surge in Pipelines)                            |
|                    | 2        | MODELMAKER                                             | DTM Utility Programme                                                        |
|                    | 8        | NUANCE PDF Professional                                |                                                                              |
|                    | 8        | PROKON                                                 | Structural design package                                                    |
|                    | 1        | RISC 4                                                 | Human Health Risk Assessment for Hydrocarbon Contaminated Sites              |
|                    | 1        | SANRAL                                                 | Utility Programmes for Drainage – Flood Hydrology etc.                       |
|                    | 3        | SAPWAT 3                                               | Irrigation Water Planning Tool                                               |
|                    | 9        | SLIDE by Roc Science                                   | Dam and Embankment Stability Analysis / Dam Seepage / Lateral Support Design |
|                    | 6        | SPATSIM                                                | Environmental Reserve Determination                                          |
|                    | 1        | SWMM                                                   | Stormwater and channel flow modelling                                        |
|                    | 1        | TRIMBLE Terrasync GPS                                  | Programming of GPS Survey Equipment                                          |
|                    | 3        | WRYM – IMS and Sub-models / WRPM / WRSIM 2000 (Pitman) | Hydrological models including dam yield modelling                            |
|                    | 5        | XFORM                                                  | Conversion of Co-ordinate Systems                                            |
|                    | 4        | SIDRA                                                  |                                                                              |
|                    | 1        | PTV VISSUM                                             |                                                                              |

## **ANNEX 5**

### **SCHEDULE 18: ADDITIONAL PERSONNEL SCHEDULE**

CITY OF CAPE TOWN

WATER AND SANITATION

CONTRACT NO. 194C/2020/21

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

SCHEDULE 18: ADDITIONAL PERSONNEL SCHEDULE

The Tenderer is referred to clause C.2.1.4.6 of the Tender Data and shall insert in the spaces provided below details of the additional personnel required to be in its permanent employment at the close of tender. Alternatively, signed undertakings from specialist consultants/firms having the required additional personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of sub-consultant agreements, will be acceptable. Such undertakings must be attached to this schedule.

Different individuals must be identified for each of the additional personnel listed. The Service Provider may propose to use the same additional personnel for different branches when tendering to provide multidisciplinary professional services for more than one branch.

A brief *curriculum vitae* (maximum of 3 pages is preferred) of all additional personnel (including sub-consultants), must also be submitted with the tender submission, appended to Schedule 18.

| SERVICE                         | NAME       | QUALIFICATION AND DATE                                                                 | AREA(S) OF EXPERTISE<br>(with years of experience, where applicable) | YEARS OF EXPERIENCE | EMPLOYER/ COMPANY       |
|---------------------------------|------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------|-------------------------|
| Civil Engineering Services      | [REDACTED] | B Tech – Water Eng - 2013, Pr.Tech Eng 2019                                            | Civil Services Design                                                | 10                  | JG Afrika               |
|                                 | [REDACTED] | B Tech- Urban Eng- 2011, Pr Tech Eng 2018                                              | Civil Services Design                                                | 11                  | JG Afrika               |
|                                 | [REDACTED] | BSc (civil Eng) 2013, MSc (Geotechnical) 2015, PrEng- 2020                             | Civil Services Design & Geotech                                      | 5                   | JG Afrika               |
|                                 | [REDACTED] | BSc (civil Eng) – 2013<br>MSc (civil Eng) - 2016                                       | Civil Services Design, Water reuse and Stormwater                    | 3                   | JG Afrika               |
| Structural Engineering Services | [REDACTED] | BSc (civil Eng) -2007<br>MSc (Civil Eng) 2011<br>PrEng - 2015                          | Civil and Building Structures                                        | 12                  | JG Afrika               |
|                                 | [REDACTED] | B. Tech (civil Eng) – 2006<br>Meng (Structural) – awaiting outcome<br>PrTech Eng -2014 | Civil and Building Structures                                        | 17                  | JG Afrika               |
| Mechanical Engineering Services | [REDACTED] | M.Tech Mechanical – 1999                                                               | Mechanical Engineering                                               | 19                  | CA du Toit Western Cape |

| SERVICE                         | NAME       | QUALIFICATION AND DATE                       | AREA(S) OF EXPERTISE<br>(with years of experience, where applicable)                                                                                                                                                                                                 | YEARS OF EXPERIENCE | EMPLOYER/ COMPANY                |
|---------------------------------|------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|
|                                 | [REDACTED] | BSc (Mech) Eng<br>1985 UCT                   | Plant layout development -- 30years<br>Pipework specification & design -- 30years                                                                                                                                                                                    | 35                  | Project Assignments SA           |
|                                 | [REDACTED] | BSc (Mech) Eng<br>1985 UCT                   | Wastewater dewatering plant -- 4years                                                                                                                                                                                                                                | 8                   | Project Assignments SA           |
| Electrical Engineering Services | [REDACTED] | B.Tech Electrical -- 2007                    | Electrical Engineering                                                                                                                                                                                                                                               | 23                  | CA du Toit Western Cape          |
|                                 | [REDACTED] | • T1 and N6 in Electrical Eng<br>Pr Tech Eng | <ul style="list-style-type: none"> <li>• Electrical Building Services and Security Systems</li> <li>• Power distribution and lighting</li> <li>• Specializing in the design, co-ordination</li> <li>• Contract administration</li> <li>• Site supervision</li> </ul> | 25                  | PMC Professional Consultants CC  |
| Quantity Surveying Services     | [REDACTED] | National Diploma QS - 1999                   | Quantity Surveying                                                                                                                                                                                                                                                   | 20                  | Bergh Erasmus Quantity Surveyors |
|                                 | [REDACTED] | Btech (QS) 2008                              | Quantity Surveying                                                                                                                                                                                                                                                   | 14                  | Bergh Erasmus Quantity Surveyors |

| SERVICE                | NAME       | QUALIFICATION AND DATE                                                                                | AREA(S) OF EXPERTISE<br>(with years of experience, where applicable)                              | YEARS OF EXPERIENCE | EMPLOYER/ COMPANY        |
|------------------------|------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| Architectural Services | [REDACTED] | BACHELOR OF ARCHITECTURAL STUDIES (UCT) 2002<br>BACHELOR OF ARCHITECTURE (UCT) 2005                   | HOUSING DEVELOPMENTS (15 YEARS)<br>STUDENT ACCOMMODATION (3 YEARS)<br>COMMERCIAL DESIGN (5 YEARS) | 15                  | COLAB CONCEPTS (PTY) LTD |
|                        | [REDACTED] | NATIONAL DIPLOMA: ARCHITECTURAL TECHNOLOGY (CPUT) 2013<br>BTECH: ARCHITECTURAL TECHNOLOGY (CPUT) 2014 | RESIDENTIAL (6 YEARS)<br>STUDENT ACCOMMODATION (3 YEARS)<br>COMMERCIAL DESIGN (5 YEARS)           | 6 YEARS             | COLAB CONCEPTS (PTY) LTD |
|                        | [REDACTED] | BSc- 2013                                                                                             | Geohydrologist                                                                                    | 6                   | JG Afrika                |
| Geohydrologist         | [REDACTED] | BSc (Hons) -2004<br>BSc (Env. Sci & Env Biology) -2003                                                | Environmental Scientist/<br>Water Quality                                                         | 15                  | JG Afrika                |
|                        | [REDACTED] | BSc Geological Sciences - 2013                                                                        | Geohydrologist                                                                                    | 4                   | JG Afrika                |

| SERVICE                               | NAME       | QUALIFICATION AND DATE                                | AREA(S) OF EXPERTISE<br>(with years of experience, where applicable) | YEARS OF EXPERIENCE | EMPLOYER/ COMPANY |
|---------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------------------------|---------------------|-------------------|
| CAD Operator/<br>Draughting personnel | [REDACTED] | Matric 1979                                           | CAD                                                                  | 37                  | JG Afrika         |
|                                       | [REDACTED] | NDipl (draughting) 1992<br>S3 (civil Eng) in progress | CAD                                                                  | 30                  | JG Afrika         |
| GIS Technician                        | [REDACTED] | GIS Diploma 2010                                      | GIS                                                                  | 28                  | JG Afrika         |
|                                       |            |                                                       |                                                                      |                     |                   |

Tender  
Part T2: Returnable Documents  
Reference No. 194C/2020/21

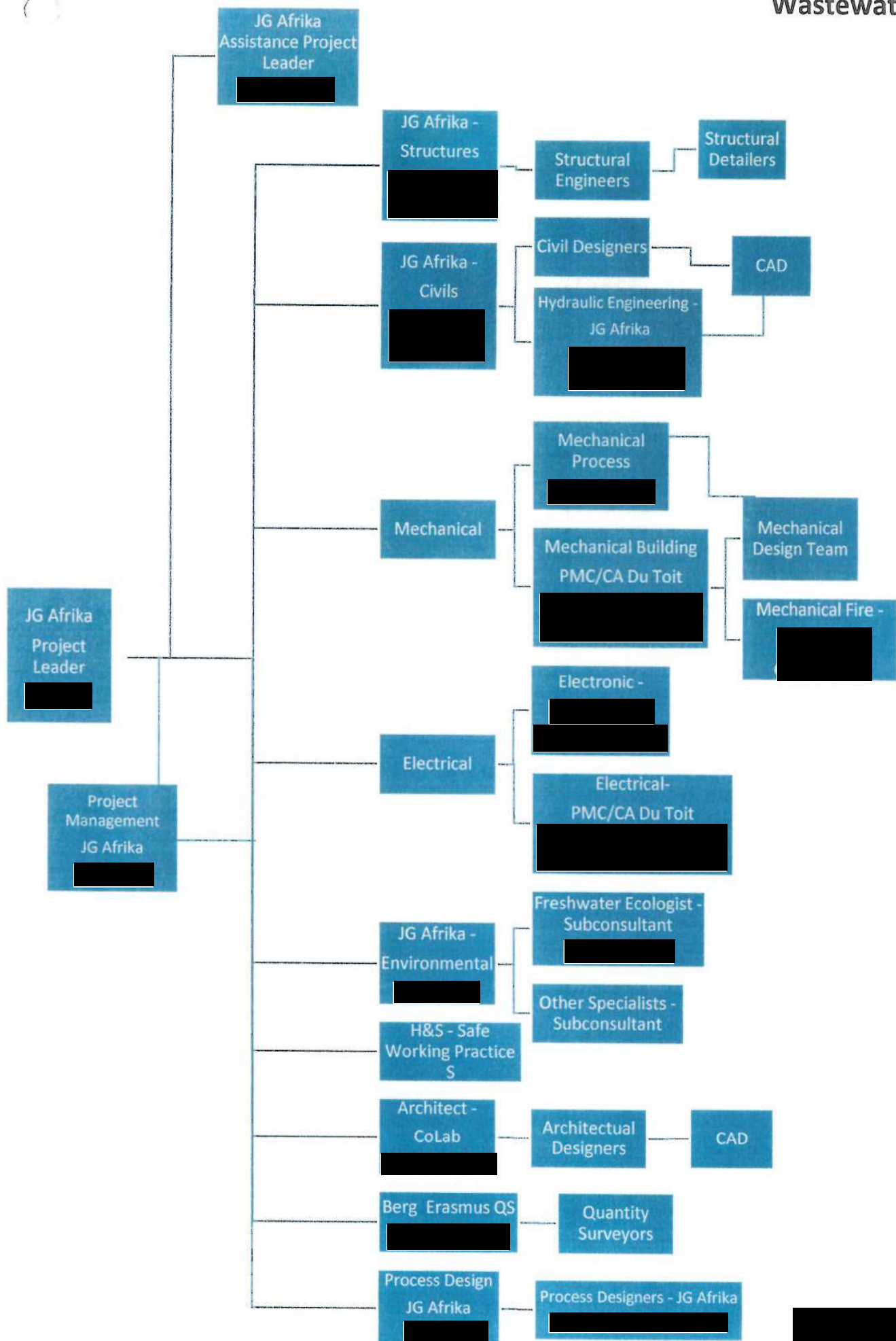
T2.2  
Returnable Schedules

Tender  
Part T2: Returnable Documents  
Reference No. 194C/2020/21

T2.2  
Returnable Schedules

## ANNEX 6

### SCHEDULE 19: ORGANISATIONAL STRUCTURE



## **ANNEX 7**

### **SCHEDULE 23: PREFERENCE SCHEDULE TO BE USED IN TERMS OF THE AMENDED CODES FOR MEASURING BROAD- BASED BLACK ECONOMIC EMPOWERMENT IN THE CONSTRUCTION SECTOR (2017)**

TERM TENDER FOR THE PROVISION OF MULTIDISCIPLINARY PROFESSIONAL SERVICES FOR THE WATER AND SANITATION DEPARTMENT OF THE CITY OF CAPE TOWN

**SCHEDULE 23: PREFERENCE SCHEDULE TO BE USED IN TERMS OF THE AMENDED CODES FOR MEASURING BROAD-BASED BLACK ECONOMIC EMPOWERMENT IN THE CONSTRUCTION SECTOR (2017)**

**Preference Schedule where preferences are granted in respect of B-BBEE contribution**

**1 Definitions**

The following definitions shall apply to this schedule:

**All applicable taxes:** Includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

**Applicable Code:** Shall be either the Amended Codes of Good Practice (published on 11 October 2013) or Sector Specific Codes as indicated in the tender conditions

**B-BBEE:** Broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act.

**B-BBEE status level of contributor:** 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.

**Bid (Tender):** A written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals.

**Black Designated Groups:** The meaning assigned to it in the codes of good practice issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003, (Act 53 of 2003).

**Black People:** The meaning assigned to it in section 1 of the Broad-Based Black Economic Empowerment Act.

**Broad-Based Black Economic Empowerment Act:** The Broad-Based Black Economic Empowerment Act, Act 53 of 2003.

**Consortium or Joint Venture:** 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.

**Contract** The agreement that results from the acceptance of a bid by an organ of state.

**Co-operative:** A co-operative registered in terms of section 7 of the Co-operatives Act, 2005 (Act no. 14 of 2005).

**Designated Group:** Black designated groups, black people, women, people with disabilities or small enterprises as defined in section 1 of the National Small Enterprises Act, 1996 (act no. 102 of 1996)

**Designated Sector:** A sector, sub-sector or industry or product that has been designated in terms of any relevant regulation of the Preferential Procurement Regulations, 2017.

**Exempted Micro Enterprise (EME):** 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.

**Firm Price:** The price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract.

**Functionality:** The ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.

**Military Veteran:** The meaning assigned to it in section 1 of the Military Veterans Act, 2011 (Act No. 18 of 2011).

**National Treasury:** The meaning assigned to it in section 1 of the Public Finance Management Act, 1999 (Act No. 18 of 1999).

**Non-firm prices:** All prices other than "firm" prices.

**Person:** Includes a juristic person.

**People with disabilities:** The meaning assigned to it in section 1 of the Employment Equity Act, 1998 (Act No. 55 of 1998).

**Price:** Includes all applicable taxes less unconditional discounts.

**Proof of B-BBEE status level of contributor:** The B-BBEE status level certificate issued by an authorised body or person, a sworn affidavit as prescribed by the B-BBEE Codes of good Practice or any other requirement prescribed in terms of the Broad-Based Black Economic Empowerment Act.

**Qualifying Small Enterprise (QSE):** A qualifying small 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.

**Rand Value:** means the total estimated value of a contract in Rand, calculated at the time of bid invitations.

**Rural Area:** A sparsely populated area in which people farm or depend on natural resources, including villages and small towns that are dispersed through the area or an area including a large settlement which depends on migratory labour and remittances and government social grants for survival, and may have a traditional land tenure system.

**Stipulated Minimum Threshold:** The minimum threshold stipulated in terms of any relevant regulation of the Preferential Procurement Regulations, 2017.

**Sub-contract:** 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.

**The Act:** The Preferential Procurement Policy Framework Act, 2000 (Act No 5 of 2000).

**Total Revenue:** Bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act and promulgated in the *Government Gazette* on 9 February 2007.

**Township:** An urban living area that at any time from the late 19<sup>th</sup> century until 27 April 1994, was reserved for black people, including areas developed for historically disadvantaged individuals post 27 April 1994.

**Treasury:** The meaning assigned to it in section 1 of the Public Finance Management Act, 1999 (Act No. 18 of 1999).

**Trust:** The arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person.

**Trustee:** Any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

**Youth:** The meaning assigned to it in section 1 of the National Youth Development Agency Act, 2008 (Act No. 54 of 2008).

## 2 Conditions associated with the granting of preferences

A supplier that is granted a preference undertakes to:

- 1) accept that the number of preference points allocated will be based on the B-BBEE status level of contributor of the supplier as at the closing date for submission of quotation offers;
- 2) not sub-contract more than 25% of the value of the contract to sub-contractors that do not have an equal or higher B-BBEE status level of contributor than the supplier, unless the intended sub-contractors are exempted micro enterprises that have the capability and ability to execute the sub-contract works or unless otherwise declared in terms of Section 5 below;
- 3) accept that a contract may not be awarded if the price offered is not market related;
- 4) accept the sanctions set out in Section 3 below should Condition 2(2) be breached, or should the tenderer have submitted any false information regarding its B-BBEE status level of contributor, local production and content, or any other matter required in terms of this bid that will affect, or has affected the bid evaluation;
- 5) accept that, in order to qualify for preference points, it is the responsibility of the supplier to submit documentary proof of its BBBEE level of contribution in accordance with the Codes of Good Practise, 2013, to the CCT at the Supplier Management Unit located within the Tender Distribution Office, 2<sup>nd</sup> Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5);
- 6) accept that, further to 5) above, Consortiums/Joint Ventures will qualify for preference points, provided that the entity submits the relevant certificate/scorecard in terms of the Preferential Procurement Regulations, 2017. Note that, in the case of unincorporated entities, a verified scorecard in the name of the consortium/Joint Venture must be submitted with the quotation (attached to this schedule);
- 7) accept that if it is found that, in the performance of the contract, the participation of the various partners in a Consortium/ Joint Venture differs substantially from that upon which the consolidated scorecard submitted in terms of 5) above was based, and the impact of which is that the Joint Venture would not have been awarded the contract in terms of the actual B-BBEE level of contribution achieved by the Joint Venture, then a financial penalty shall be applied (in addition to any other remedies that the CCT may have) in accordance with Section 3 below;
- 8) accept that the CCT will verify the B-BBEE level of contributor of the supplier as at the closing date for submission of tender offers, to determine the number of preference points to be awarded to the supplier. In the case of Consortiums/Joint Ventures which tender as unincorporated entities, a verified scorecard submitted with the tender and valid as at the closing date will be used to determine the number of preference points to be awarded to the supplier;

- 9) accept that, notwithstanding 8) above, a supplier will not be awarded points for B-BBEE status level of contributor if he indicates in his tender that he intends sub-contracting more than 25% of the value of the contract to sub-contractors that do not qualify for at least the points that the supplier qualifies for unless the intended sub-contractors are exempted micro enterprises that have the capability and ability to execute the sub-contract works;
- 10) accept that any subcontracting arrangements after the award of the tender may only be entered into upon the prior approval of the City of Cape Town; and
- 11) immediately inform the City of Cape Town of any change that may affect the tenderer's B-BBEE level of contribution upon which preference points will be or have been allocated.

### 3 Sanctions relating to breaches of preference conditions

The sanctions for breaching the conditions associated with the granting of preferences are:

- 1) disqualify the supplier from the quotation process;
- 2) recover costs, losses or damages the CCT has incurred or suffered as a result of the supplier's or contractor's conduct;
- 3) cancel the contract in whole or in part and claim any damages which the CCT has suffered as a result of having to make less favourable arrangements due to such cancellation;
- 4) restrict the supplier, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, from obtaining business from the CCT for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied and inform the National Treasury accordingly;
- 5) forward the matter for criminal prosecution; and/or
- 6) financial penalties payable to the CCT, as set out below.

#### Financial penalty for breach of Condition 2 in Section 2 above:

The penalty to be applied for sub-contracting more than 25% of the value of the contract to sub-contractors that do not qualify for at least the preference points that the supplier qualified for (unless so declared or proven to be beyond the control of the supplier, or the sub-contractors are EMEs that have the capability and ability to execute the sub-contract works) shall be as provided for in the following formula:

$$\text{Penalty} = 0.5 \times E(\%) \times P^*$$

where:

E = The value of work (excluding VAT) executed by sub-contractors that do not qualify for at least the preference points that the supplier qualified for, expressed as a percentage of P\*, less 25%

P\* = Value of the contract

#### Financial penalty for breach in terms of condition 6 in Section 2 above:

The penalty to be applied where, in the performance of the contract, the participation of the various partners in a Consortium/ Joint Venture differs substantially from that upon which the consolidated scorecard submitted in terms of 5) in Section 2 above was based, and the impact of which is that the Joint Venture would not have been awarded that contract in terms of the actual B-BBEE level of contribution achieved by the Joint Venture, shall be as provided for in the following formula:

$$\text{Penalty} = 5/100 \times (B-BBEE^a - B-BBEE^i) \times P^*$$

where:

B-BBEE<sup>a</sup> = The B-BBEE level of contribution that is achieved, determined in accordance with the actual participation of the Joint Venture partners in the performance of the contract

B-BBEE<sup>i</sup> = The B-BBEE level of contribution that was used to determine the number of preference points granted to the Joint Venture at the time of quotation evaluation

P\* = Value of the contract

#### Financial penalty for breach in terms of condition 10 in Section 2 above:

The penalty to be applied where the supplier fails to disclose subcontracting arrangement after the award of the tender is up to a maximum of 10% of the value of the contract.

### 4 Level of Contribution in respect of enterprise status or structure of the tendering entity (the supplier)

In the interest of transparency, suppliers are required to complete Table 1: Level of Contribution below applicable to the Code they wish to be evaluated against.

Table 1: Level of Contribution: **Amended Codes for Measuring Broad-Based Black Economic Empowerment in the Construction Sector.**

| Type of B-BBEE Contributor                                                                              | Status (tick box(es) below as applicable) |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Exempted Micro Enterprise (EME), 100% black-owned                                                       | <input type="checkbox"/>                  |
| Exempted Micro Enterprise (EME), at least 51% but less than 100% black-owned                            | <input type="checkbox"/>                  |
| Exempted Micro Enterprise (EME), at least 30% but less than 51% black-owned                             | <input type="checkbox"/>                  |
| Exempted Micro Enterprise (EME), less than 30% black-owned                                              | <input type="checkbox"/>                  |
| Exempted Micro Enterprise<br>B-BBEE Status Level of Contributor <sup>1</sup> <input type="checkbox"/>   | <input type="checkbox"/>                  |
| Qualifying Small Enterprise<br>B-BBEE Status Level of Contributor <sup>1</sup> <input type="checkbox"/> | <input type="checkbox"/>                  |
| Qualifying Small Enterprise (QSE), 100% black-owned                                                     | <input type="checkbox"/>                  |
| Qualifying Small Enterprise (QSE), at least 51% but less than 100% black-owned                          | <input type="checkbox"/>                  |
| Qualifying Small Enterprise (QSE), less than 51% black-owned                                            | <input type="checkbox"/>                  |
| Verified B-BBEE contributor<br>B-BBEE Status Level of Contributor <sup>1</sup> <input type="checkbox"/> | <input checked="" type="checkbox"/>       |
| Non-compliant contributor                                                                               | <input type="checkbox"/>                  |

<sup>1</sup> If it is indicated that the company/firm/entity is a verified B-BBEE contributor, then the verified status level of contributor must be inserted in the box provided (insert a number from 1 to 8 as applicable)

#### 5 Declarations

1) With reference to Condition 8 in Section 2 above, the supplier declares that:

I/we hereby forfeit my preference points because I /we DO intend sub-contracting more than 25% of the value of the contract to sub-contractors that do not qualify for at least the points that I/we as supplier qualify for or are not exempted micro enterprises that have the capability and ability to execute the sub-contract works

N/A

#### Note:

Tenderers who do not tick this box will be allocated preference points but the sanctions relating to breaches of preference conditions in Section 3 will be applicable if the tenderer contravenes the conditions in Section 2.

2) The undersigned, who warrants that he/she is duly authorized to do so on behalf of the supplier, hereby certifies that the preference claimed based on the B-BBEE status level of contribution indicated in Table 1, qualifies the supplier, subject to condition 8 in Section 2 above, for such preference claimed, and acknowledges that:

- (i) the information furnished is true and correct;
- (ii) the preference claimed is in accordance with the conditions of this schedule;
- (iii) the supplier may be required to furnish documentary proof to the satisfaction of the CCT that the BBEE level of contributor as at the closing date is correct; and
- iv) he/she understands the conditions under which preferences are granted, and confirms that the supplier will satisfy the conditions pertaining to the granting of preferences.

Signature

[Redacted Signature]

Name (PRINT)

(For and on behalf of the Supplier (duly authorised))

[Redacted Name]

07/12/2020  
Date

For official use.

SIGNATURE OF CITY OFFICIALS AT

[Redacted Signature]

[Redacted Footer]

## ANNEX 8

## CITY OF CAPE TOWN

CONTRACT NO. AND NAME: \_\_\_\_\_

CONTRACTOR (SERVICE PROVIDER): \_\_\_\_\_

## B-BBEE SUB-CONTRACT EXPENDITURE REPORT BASED ON PAYMENT NO. ....

| Value of the contract (as defined in the Preference Schedule (P*)) |                                                     | R                                                                 | B-BBEE Status Level of Service Provider                         |                                                                                                            |   |
|--------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---|
| Name of Sub-contractant (list all Sub-contractants)                | B-BBEE Status Level of Sub-contractant <sup>1</sup> | Total Value of Sub-contractant's contract (excl VAT) <sup>1</sup> | Value of Sub-contractant's work to date (excl VAT) <sup>1</sup> | Value of Sub-contractant's work to Sub-contractants with a lower B-BBEE Status Level than Service Provider |   |
| Sub-contractant A                                                  |                                                     | R                                                                 | R                                                               | R                                                                                                          |   |
| Sub-contractant B                                                  |                                                     | R                                                                 | R                                                               | R                                                                                                          |   |
| Sub-contractant C                                                  |                                                     | R                                                                 | R                                                               | R                                                                                                          |   |
|                                                                    |                                                     |                                                                   |                                                                 |                                                                                                            |   |
| <sup>1</sup> Documentary evidence to be provided                   |                                                     |                                                                   |                                                                 | Total:                                                                                                     | R |
|                                                                    |                                                     |                                                                   |                                                                 | Expressed as a percentage of P*                                                                            | % |

Signatures

Declared by Contractor (Service Provider) to be true and correct: \_\_\_\_\_

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

Verified by Framework Contract Manager / Employer's Project Manager: \_\_\_\_\_

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

Contract  
Part C3: Scope of Work  
Contract No. 194C/2020/21

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C3.2  
Annexes

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## Part C4: Site Information

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