# TENDER NO. 95Q/2020/21



SCM - 518 Approved by Branch Manager: 03/04/2020

# FRAMEWORK CONTRACT DOCUMENT (WINNER-TAKES-ALL TYPE)

FOR THE

## TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

Framework Contract Period: 36 Months from Commencement Date Works Projects: Above R0 up to R4 000 000

# **VOLUME 3: DRAFT CONTRACT**

DIRECTOR : WATER AND SANITATION : CITY OF CAPE TOWN 8 Voortrekker Road Corner of Mike Pienaar Boulevard and Voortrekker Road BELLVILLE 7535 COMPILED BY:

METER MANAGEMENT: CUSTOMER SERVICES BRANCH 8 Voortrekker Road Corner of Mike Pienaar Boulevard and Voortrekker Rd BELLVILLE 7535 For official use.

TENDER SERIAL No.:

SIGNATURES OF CITY OFFICIALS AT TENDER OPENING

- 2. 3.

1.

September 2020

NAME OF TENDERING			
ENTITY			
EMAIL ADDRESS OF			
TENDERING ENTITY			
FAX NUMBER OF			
TENDERING ENTITY			
NATURE OF TENDER OFFER (please indicate below)			
Main Offer (see clause			
C.2.12)			
Alternative Offer (see			
clause C.2.12)			

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### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

## TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

### C1.2 Contract Data

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

### **GENERAL CONDITIONS OF CONTRACT**

The following standardised General Conditions of Contract:

### General Conditions of Contract for Construction Works, Third Edition, 2015

prepared by the South African Institution of Civil Engineering (SAICE) shall apply to and form the General Conditions of Contract for this contract. Copies of these conditions of contract are obtainable from the South African Institution of Civil Engineering (SAICE), Private Bag X200, Halfway House 1685, Tel: (011) 805 5947, Fax: (011) 805 5971, e-mail: civilinfo@saice.org.za.

Copies of the General Conditions of Contract are available for inspection and scrutiny at the offices of the Employer.

The Pro-formas bound with the General Conditions of Contract 2015, on pages 96 to 113 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 these conditions 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.

- a) the Form of Offer and Acceptance,
- b) the Contract Specific Data within the Contract Data,
- c) the General Conditions of Contract for Construction Works, Third Edition, 2015,
- d) the Drawings,
- e) the Scope of Work,
- f) the Pricing Data, and
- g) the conditions of tender, the tender data and tender schedules.

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

### CONTRACT SPECIFIC DATA

The following contract specific data, referring to the General Conditions of Contract for Construction Works, Third Edition, 2015, are applicable to this Contract:

### Clause 1.1.1.2:

Add the following after "Bill of Quantities":

, also referred to as Bills of Quantities,

### Clause 1.1.1.7:

Add the following after "Contract" and before "means":

, also referred to as Framework Contract or term tender contract,

### Add the following after "Acceptance,":

including, if applicable, the Form of Offer and Acceptance in a Works Project contract document, in which case "Contract" includes the Works Project contract,

### Clause 1.1.1.11:

Add the following after "Acceptance":

... of a Works Project.

The Contract Sum for each Works Project shall exceed R0 and not exceed R4 million (including contingencies and VAT).

### Clause 1.1.1.13:

The Defects Liability Period is **12** months per Works Project.

### Clause 1.1.1.14:

Delete "Commencement Date" and replace with:

date specified in the Works Project contract for commencement with Works execution,

The time for achieving Practical Completion, inclusive of non-working days referred to in Clause 5.8.1 below, but exclusive of special non-working days (Clause 5.8.1), will be determined for each Works Project as specified in the Works Project contract document.

### Clause 1.1.1.15:

The **Employer** is the CITY OF CAPE TOWN, represented by the Director : WATER AND WASTE: WATER AND SANITATION , or such other Director named in the Works Project contract document(s), and/or such other person or persons duly authorised thereto by the Employer in writing.

The name of the Employer is:

is: CITY OF CAPE TOWN WATER AND WASTE: WATER AND SANITATION

and is referred to in the Contract documents by the terms "Employer", "City of Cape Town" or "Council" as the context provides.

### Clause 1.1.1.16:

Add the following after "Contract Data":

in the Works Project contract document,

The name of the Employer's Agent will be stated in the Works Project contract document(s) and who may be an employee of the Employer or, alternatively, may be an independent agent appointed by the Employer.

### Clause 1.1.1.20

Add the following after "Contract":

and also includes the Form of Offer and Acceptance applicable in each Works Project contract document.

### Clause 1.1.1.26:

The Pricing Strategy is a Re-measurement Contract.

### Clause 1.1.1.28:

The Scope of Work in this Framework Contract document is applicable, as relevant, together with the project specific Scope of Work in each Works Project contract document.

### Clause 1.1.1.33:

The "Works" applies to the Works Projects individually or as a whole, as the context provides.

Add the following Clauses after Clause 1.1.1.34:

- 1.1.1.35 **"Drawings**" means all drawings, calculations and technical information forming part of the Contract documents and any modifications thereof or additions thereto from time to time approved in writing by the Employer's Agent or delivered to the Contractor by the Employer's Agent.
- 1.1.1.36 **"Framework Contract**" means the Contract as defined in Clause 1.1.1.7; and "**Framework Contract Period**" means the period stated in the Contract Data, during which Works Projects may be allocated to the Contractor and for which Purchase Orders may be raised (issued) provided that such orders be completed prior to the expiry of the period; provided that the Framework Contract shall continue to remain in force after the expiration of the Framework Contract Period until the Final Approval Certificate has been issued by the Employer's Agent for the last outstanding Works Project at the expiration of the Defects Liability Period of that Works Project.
- 1.1.1.37 **"Framework Contract Manager**" 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 Contractor is notified, in writing, to act as Framework Contract Manager for the purposes of the Contract as substitute for the Framework Contractor 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 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" in the Contract shall apply to the Framework Contract Manager in respect of his/her administering the Framework Contract.

The Framework Contract Manager is:

Name:	Mr Motale Selesho (Head: Meter Management - WATER AND SANITATION)
Address:	City of Cape Town
	5 <sup>th</sup> Floor, Water and Sanitation Head Office
	8 Voortrekker Road
	Bellville
Tel:	021 400 4474
E-mail:	Motale.Selesho@capetown.gov.za]

- 1.1.1.38 "Letter of Notification" means the letters of formal notification, signed by the Employer, of the decision of the Supply Chain Management Bid Adjudication Committee sent to all tenderers. The notification of the decision does not form part of the Employer's Acceptance of a successful tenderer's Offer and no rights shall accrue.
- 1.1.1.39 **"Purchase Order**" means the official purchase order created and released on the City of Cape Town's SAP System.
- 1.1.1.40 **"Schedules of Rates**" means, in this Framework Contract document, the document so designated in the Pricing Data, and which will be used to compile Bills of Quantities in the Works Project contract document(s).
- 1.1.1.41 **"Standby Panel**" means a number of contractors appointed by the Employer under the Framework Contract to be available to execute Works Projects as and when they arise, on a "winner-takes-all" basis as stated in the Contract, in the order of their ranking in terms of the Framework Contract tender evaluation, and then only if the Winner has refused a work opportunity (or if his offer is non-responsive/invalid).
- 1.1.1.42 **"Winner**" means the Contractor appointed by the Employer under the Framework Contract to be available to execute Works Projects as and when they arise, on a "winner-takes-all" basis as stated in the Contract, and who will be allocated work on an on-going basis, unless he refuses a work opportunity (or if his offer is non-responsive/invalid), for the duration of the term tender contract.
- 1.1.1.43 **"Works Project**" means a part of the Works to be performed (task) by a Contractor under the Contract, the specific terms, conditions and scope of the Works Project contract being specified in a Works Project contract document.
- 1.1.1.44 **"Works Project Acceptance/Refusal Notice**" means the formal notification, signed by the successful tenderer/prospective Contractor and sent to the Employer, of his decision to accept/ refuse the opportunity afforded to participate further in the Contractor appointment procedure for a Works Project as specified in the Contract.
- 1.1.1.44 **"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

C1.2 Contract Data 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

### Clause 1.2.1.2:

The address of the Employer is:

Physical address:	8 Voortrekker Road Corner of Mike Pienaar Boulevard and Voortrekker Road Bellville 7535
Postal address:	Private Bag X98 Bellville 7535
E-mail address:	Siyabulela.Bashe@capetown.gov.za

The address of the Employer's Agent will be stated in the Works Project contract document(s).

### Clause 1.3:

Delete Clause 1.3.5 in its entirety and replace with the following:

- 1.3.5 Intellectual Property
- 1.3.5.1 The Contractor acknowledges that it shall not acquire any right, title or interest in or to the Intellectual Property of the Employer.

1.3.5.2 The Contractor 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.

1.3.5.3 The Contractor shall be deemed to have given the Employer a non-terminable, transferable, non-exclusive, royalty-free licence to copy, use and communicate the Contractor's documents, including making and using modifications of such documents for further work required to the Works.

1.3.5.4 The Contractor shall, and warrants that it shall:

1.3.5.4.1 not be entitled to use the Employer's Intellectual Property for any purpose other than as contemplated in this contract;

1.3.5.4.2 not modify, add to, change or alter the Employer's Intellectual Property, or any information or data related thereto, nor may the Contractor 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;

1.3.5.4.3 not apply for or obtain registration of any domain name, trademark or design which is similar to any Intellectual Property of the Employer;

1.3.5.4.4 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 Intellectual Property, including without limitation, any brand guidelines which the Employer may provide to the contractor from time to time;

1.3.5.4.5 procure that its employees, directors, members and contractors comply strictly with the provisions of clauses 1.3.5.4.1 to 1.3.5.4.3 above;

unless the Employer expressly agrees thereto in writing after obtaining due internal authority.

1.3.5.5 The Contractor 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 contractor of any third party's Intellectual Property rights.

1.3.5.6 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 Contractor and no copies thereof shall be retained by the contractor unless the Employer expressly and in writing, after obtaining due internal authority, agrees otherwise.

Add the following Clause after Clause 1.3.6:

- 1.3.7 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. Please refer to this document contained on the CCT's website.
- 1.3.8 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 rights and remedies available to it as described in the SCM Policy.

### Clause 2:

Add the following Clause after Clause 2.5.1:

2.6 Procedures for the allocation of Works Projects

The Employer reserves the right to plan, allocate and effect individual Works Projects at its sole discretion and as described in this document.

The Employer will only order those quantities of work items which it actually requires for execution in a Works Project from time to time. The Employer reserves the right not to order any quantities at all depending on circumstances and subject to operational requirements.

The Works Projects shall be executed in areas within four areas identified within the City of Cape Town municipal area and outlined in clause C.1.6.1 in Part T1.2 Tender Data, on a "winner-takes-all" basis as described therein.

The Works Projects shall be identified subject to availability of funding.

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

### Clause 3.1

#### Delete clause

### Clause 3.2.2

Add the following at the end of the clause:

If, in exercising any discretion, the result of such decision would be to utilise the contingency allowance, increase the contract value or granting of time for practical completion, the Employer's Agent must obtain approval from the Employer that such funding or time is available and granted by the Employer to be awarded prior to finalising such a decision.

### Clause 3.2.3:

Clause 5:

The Employer's Agent shall obtain the specific approval of the Employer before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract or Contract Data:

- a) Clause 3.3.1 Nomination of Employer's Agent's Representative
- b) Clause 3.3.4 Employer's Agent's authority to delegate
- c) Clause 5.8.1 Non-working times
- d) Clause 5.11.1 Suspension of the Works
- e) Clause 5.12.4 Acceleration instead of extension of time
- f) Clause 6. All actions in terms of the clause, subject to 3.2.2 of the Contract Data
- g) Clause 6.4.1 Approval of rates for new items
- h) Clause 6.10.10 Advance payment, for items not listed in the Advance Payment Schedule
- j) Clause 10.1.5 All actions in terms of the clause, subject to 3.2.2 of the Contract Data

Clause 3.3.2.2.3: Delete the words "oral or" from the clause

Clause 3.3.2.2.4: Delete the words "oral or" from the clause

Contract Part C1: Agreements and Contract Data Reference No. 95Q/2020/21 Add the following Clause after Clause 5.1.1.2:

5.1.2 Framework Contract Period

The Framework Contract Period is for a period of three years calculated from the Commencement Date.

### Clause 5.3:

Delete Clauses 5.3.1 to 5.3.3 in their entirety and replace with the following:

5.3.1 Upon appointment as either the Winner or to a Standby Panel, if applicable, the Contractor shall submit the required documentation, for approval by the Framework Contract Manager, as set out below. If the documentation is not submitted with 14 days from the Commencement Date, or is found to be unacceptable, the Employer may terminate the Framework Contract in terms of Clause 9.2.

The documentation required is:

- a) Approved framework Health and Safety Plan (Refer to applicable in the Health and Safety Specification in Part C3.5 in the Scope of Work)
- b) Security (Refer to Clause 6.2)
- c) Evidence of Insurance (Refer to Clause 8.6)
- d) Occupational Health and Safety Agreement (Part C1.5 in Agreements and contract Data)
- e) Letter of Good Standing from the Compensation Commissioner (if not insured with a Licensed Compensation Insurer) (Refer to Clause 4.3)
- f) Protection of the Environment Declaration (Part C1.6 in Agreements and Contract Data)
- 5.3.2 The Contractor shall, save as may be otherwise provided in the Contract or be legally or physically impossible, commence executing the Works on the date specified in the Works Project contract; subject to the submission by the Contractor, and approval by the Employer's Agent, of any documentation required before commencement with Works execution, as set out in the Works Project contract.

The following documentation shall be submitted for **each Works Project** by the invited contractor as part of the Works Project submission:

- a) Approved site specific Health and Safety plan (Refer to Health and Safety Specification in Part C3.5 Management and any other specific requirements stated in the Works Project contract document)
- b) Initial Programme (Refer to Clause 5.6)
- c) Evidence of Insurance (Refer to Clause 8.6)
- d) Proof of Registration / Letter of Good Standing with the Building Industry Bargaining Council (BIBC)

The time to submit any documentation required before commencement with Works execution of **each Works Project** shall be within the number of days from the Commencement Date of the Works Project as specified in the Works Project contract. Such documentation may include:

- e) Method Statement (Refer to Environmental Management Specification in Part C3.5 Management)
- 5.3.3 Notwithstanding the provisions of Clause 5.3.2, where a construction work permit from the Provincial Director of the Department of Labour is required for a Works Project, commencement of the Works Project shall not be deemed to take place until such construction work permit has been issued by the Provincial Director.
- 5.3.4 Application for Construction Work Permit

Where the Employer is required to apply to the Provincial Director of the Department of Labour for a construction work permit to perform the intended construction work for a Works Project, the employer shall do so as soon as the Contractor has been appointed to execute the Works for the specific Works Project in terms of the Framework Contract.

Should the issuing of a construction work permit delay the Employer's Agent's instruction to commence executing the Works Projects and this in turn causes a delay to Practical Completion of more than 60days, then the Contractor shall be entitled to make a claim in accordance with Clause 10.1. Should, however, the issuing of a construction work permit be delayed by the submission of a unacceptable draft Health and Safety Plan, in the opinion of either the Employer's Health and Safety Agent, or the Provincial Director of the Department of Labour, no claim for an extension of time will be entertained.

### Clause 5.4.2:

Access to and possession of the Site shall not be exclusive to the Contractor insofar as the provisions of Clause 4.8 apply, and where ongoing use by the general public is required.

Add the following Clause after Clause 5.4.3:

5.4.4 The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site.

### Clause 5.6.2.3:

Insert the following after "...approvals,":

... permits,

Clause 5.8.1:

The non-working days are Sundays.

The special non-working days are:

a) All gazetted public holidays.
 b) Year-end break(s) not exceeding 15 working days in duration.

### Clause 5.12.1:

### Add the following:

The Contractor may not claim a delay on another Works Project as causing delay on the particular Works Project contract in question.

### Clause 5.12.2.2:

No extension of time will be granted in respect of any delays attributed to normal climatic conditions. Normal climatic conditions shall be deemed to include normal rainfall and associated wet conditions and materials, strong winds and extremes of temperature. However, in the event that delays to critical activities exceed the number of working days listed below for each month, then abnormal climatic conditions shall be deemed to exist, and an extension of time may be claimed in accordance with the provisions of Clause 5.12.

The number of days quoted below shall be regarded as a fair estimate of the delays to be anticipated and allowed for under normal climatic conditions where inclement weather prevents or disrupts critical work.

January	2 days
February	2 days
March	2 days
April	2 days
May	2 days
June	4 days
July	4 days
August	4 days
September	4 days
October	2 days
November	2 days
December	2 days

Claims for delays for abnormal climatic conditions shall be accompanied by substantiating facts and evidence, which shall be submitted timeously as each day or half-day delay is experienced.

It shall be further noted that where the critical path is not affected, no extension of time for <u>abnormal</u> climatic conditions or for any other reason will be entertained.

### Clause 5.13.1:

The penalty for failing to complete the Works of each Works Project within the time referred to in Clause 1.1.1.14 is **R1 000** per day.

Insert the following after "actual date of Practical Completion":

... or, in the case of termination by the Employer in terms of Clause 9.2.1, the actual date of termination,

### Clause 5.16.3:

The latent defects period is 10 years.

### Clause 6.2.1:

The security to be provided by the Contractor shall be a blanket performance guarantee of **R200 000 per area**. The performance guarantee shall contain the precise wording of the document included in Part C1.3 of the Contract Data: **Form of Performance Guarantee**, and it shall be issued by a financial institution approved by the Employer, at the date when the guarantee is issued. The list of approved financial institutions current at the date of tender is attached to the **Form of Performance Guarantee**.

In the event of the guarantee being called up (in full or in part) the Contractor shall within 21 days of the issue of a first written demand by the Employer to the Guarantor, provide at his own cost a replacement performance guarantee of R200 000 for the particular region, and no work will be allocated to the Contractor in that area until the replacement performance guarantee has been provided.

### Clause 6.2.2:

Delete Clause 6.2.2 in its entirety.

### Clause 6.2.3:

Delete Clause 6.2.3 in its entirety and replace with the following:

The Contractor shall ensure that the performance guarantee remains valid and enforceable until the last Certificate of Completion of the Works for the Works Projects in an areais issued.

### Clause 6.5.1.2.3:

The percentage allowance to cover overhead charges is **10%** 

### Clause 6.8.2:

Add the following to Clause 6.8.2:

The Contract Price shall be subject to contract price adjustment in accordance with Clause 6.8 of the General Conditions of Contract.

The rates submitted will be firm for the first 12 months after commencement of the contract.

CPA for year 2 will be calculated in month 12 based on current indices for month 11, and will be applicable for the next 12 months thereafter, with the base month being one month prior to the month in which the tender closed.

CPA for year 3 will be calculated in month 24 based on current indices for month 23 and will be applicable for the next 12 months thereafter, with the base month being the 11<sup>th</sup> month from commencement of the contract.

If special materials are specified in Part 2 of the Contract Data then the provisions of Clause 6.8.3 of the General Conditions of Contract shall apply to such special materials.

Where applicable, in terms of the foregoing, the value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:

The value of "x" is 0,10.

The values of the coefficients are:

a = 0,15 b = 0,20 c = 0,55 d = 0,10

The base month is one month prior to the month in which the tender closed

Furthermore, the Contract Price Adjustment Schedule shall be amended as follows:

"L" is the "Labour Index" and shall be the Consumer Price Index (CPI) for "CPI per province – Western Cape" as published in the Statistical News Release, P0141: Table A – Consumer Price Index: Main Indices of Statistics South Africa

"P" is the "Plant Index" and shall be the Construction Materials Price Index for "Plant and Equipment" as published in the Statistical News Release P0151.1, Table 4 – Mining and construction plant and equipment price index of Statistics South Africa

"M" is the "Materials Index" and shall be the Construction Materials Price Index for selected materials, Materials for "Civil Engineering material – total," as published in the Statistical News Release P0151.1, Table 6 – Civil engineering material price indices of Statistics South Africa

"F" is the "Fuel Index" and shall be the Producer Price Index (PPI) for "Coal and Petroleum Products - Diesel", as published in the Statistical News Release P0142.1: Table 1 – PPI for final manufactured goods of Statistics South Africa

### Clause 6.8.3: Variation in the cost of special materials

Price adjustment for variations in the cost of special materials is provided for in the Special Materials Schedule at the end of this Part 1: Contract Data provided by the Employer.

### **Clause 4.2 of the Contract Price Adjustment Schedule**

Delete the words "by the Contractor" that appear after ".... entered in the Contract Data"

### Clause 6.8.4:

### Add the following to Clause 6.8.4:

Notwithstanding the above, in the event that a public holiday is proclaimed after 7 days before the closing date for an offer on a Works Project, no costs other than those that can be claimed under Clause 5.12.3 shall be added to the Contract Price.

Add the following after Clause 6.8.4:

- 6.8.5. If price adjustment for variations in the cost of plant and materials imported from outside of South Africa is provided for in the contract data, such adjustment shall be based on the information contained on the schedule titled "**Price Basis for Imported Resources**" and as below. For the purposes of this clause the Rand value of imported Plant and Materials inserted on the schedule titled "**Price Basis for Imported Resources**" (column (F)) shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate quoted by **Employer's** main banker, NEDBANK, on the Base Date (seven calendar days before tender closing date) rounded to the second decimal place (column(B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D) and (E)).
- 6.8.5.1 Adjustment for variations in rates of exchange:
  - (a) The value in foreign currency inserted in column (A) shall be subject to clause (h) below when recalculating the Rand value.
  - (b) The rate of exchange inserted in column (B) shall be the closing spot selling rate quoted by **Employer's** main banker, NEDBANK, on the Base Date, rounded to the second decimal place, subject to sub-paragraph (c) below.
  - (c) If the rate of exchange inserted by the Tenderer differs from the NEDBANK rate referred to above, then the NEDBANK rate shall apply and the Rand value in columns (C) and (F) shall be recalculated accordingly, without altering the price in the Schedules of Quantities for the relevant items.
  - (d) If a tender from a supplier or sub-contractor provides for variations in rates of exchange, the Contractor may **only** claim for variations in rates of exchange if he binds the supplier or sub-contractor to the same provision to take out forward cover as described in sub-paragraph (e) below.
  - (e) The Contractor (or supplier or sub-contractor) shall within five working days from the date of placing a firm order on an overseas supplier, cover or recover forward by way of a contract with a bank which is an authorised foreign exchange dealer, the foreign exchange component of the cost of any imported Plant and Materials inserted by the Tenderer on the schedule titled "Price Basis for Imported Resources".
  - (f) When the Contractor (or supplier or sub-contractor) so obtains forward cover, the Contractor shall immediately notify the Employer of the rate obtained and furnish the Employer with a copy of the foreign exchange contract note.
  - (g) Based on the evidence provided in sub-paragraph (f) above, the value in Rand inserted in column (C) on the schedule titled "**Price Basis for Imported Resources**" shall be recalculated using the forward

cover rate obtained, and any increase or decrease in the Rand value defined in this clause shall be adjusted accordingly, subject to sub-paragraph (h) below. Failure to provide such evidence shall result in no such recalculation shall be considered by the Employer.

- (h) The adjustments shall be calculated upon the value in foreign currency in the Contractor's (or supplier's or sub-contractor's) forward cover contract, provided that, should this value exceed the value in foreign currency inserted in column (A) of the schedule titled "Price Basis for Imported Resources", then the value in column (A) shall be used.
- 6.8.5.2 Adjustment for variations in customs surcharge and customs duty
  - (a) Any increase or decrease in the Rand value between the amounts of Customs Surcharge and Customs Duty inserted on the schedule titled "Price Basis for Imported Resources" and those amounts actually paid to the Customs and Excise Authorities, which are due to changes in the percentage rates applicable or to the foreign exchange rate used by the authorities, shall be adjusted accordingly.
  - (b) The Tenderer shall state the Customs Duty Tariff Reference applicable to each item and the Contractor shall advise the Employer's Agent of any changes which occur.
- 6.8.5.3 Adjustment for variation in labour and material Costs

If the prices for imported Plant and Materials are not fixed, the Contractor shall in his Tender specify the formula for calculating Contract Price Adjustments normally used in the country of manufacture and the indices and relative proportions of labour and material on which his Tender prices are based. Evidence of the indices applicable shall be provided with each claim. The indices applicable 42 days before contractual dispatch date from the factory will be used for the purposes of Contract Price Adjustment.

Failure to specify a formula in the Tender shall mean that the prices are fixed or shall be deemed to be fixed.

### Clause 6.10.1.5:

Delete Clause 6.10.1.5 in its entirety and replace with the following:

- 6.10.1.5 The value of Plant and materials:
- 6.10.1.5.1 up to a percentage limit of **80%** for the Plant and materials referred to in Clause 6.9.1.1 brought on to the Site but not yet built into the Permanent Works;

Provided that the Contractor has produced documentary evidence of ownership of such Plant and/or materials and has delivered to the Employer an indemnity, approved in writing by the Employer, against any claim to or in respect of such Plant and/or materials by reason of the Contractor's sequestration or liquidation, or of any defect in the Contractor's title to the Plant and/or materials;

- 6.10.1.5.2 which have been manufactured and are stored at places other than the Site, in respect of which the Employer has indicated, on the Advance Payment Schedule, that advance payment will be permitted;
- 6.10.1.5.3 for which a deposit with order is required from the Contractor by a manufacturer/supplier, only in respect of which the Employer has indicated, on the Advance Payment Schedule, that advance payment will be permitted;

The terms and conditions for advance payment are set out in Clause 6.10.10 and in the Advance Payment Schedule at the end of this Part 1: Contract Data provided by the Employer.

### Clause 6.10.1.7:

Add the following after the words "Clause 5.13":

or any other fines or penalties that become due under the Contract.

### Clause 6.10.3:

Add the following to Clause 6.10.3:

Notwithstanding the provision of a performance guarantee in terms of Clause 6.2.1, interim payments to the Contractor shall be subject to a retention by the Employer of an amount of **10% (provided that for Works Projects less than or equal to R200 000 retention is waived)** of the said amounts due to the Contractor, with no limit per Works Project. A guarantee in lieu of retention is not permitted.

#### Clause 6.10.4:

Add the following to the last sentence of Clause 6.10.4:

..., dated as at the date of delivery of the Contractor's statement to the Employer's Agent.

### Add the following to Clause 6.10.4:

Notwithstanding the above, the Employer's Agent shall be empowered to withhold the delivery of the payment certificate until the Contractor has complied with his obligations to report in terms of Clause 4.10.2 and as described in the Scope of Work.

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

### Clause 6.10.10:

Add the following Clause after Clause 6.10.9:

#### 6.10.10 Advance payment

Subject to Clauses 6.10.1.5.2 and 6.10.1.5.3, and the Advance Payment Schedule, the Employer shall make an advance payment for Plant and materials stored at places other than the Site, or in respect of which a deposit with order is required, only once the Contractor has submitted an advance payment guarantee in accordance with this Clause, the authenticity of which has been verified by the City's Treasury Department.

Unless and until the Employer receives this guarantee, the following paragraphs shall not apply.

The Employer's Agent shall issue an Interim Payment Certificate for, or including, advance payment after receiving a statement under Clause 6.10.1 and after the Employer has received a guarantee in an amount equal to the advance payment requested. This guarantee shall be issued by a financial institution approved by the Employer, as listed in the Annexure in Part C1.3 of the Contract Data, and shall be in the form of and shall contain the precise wording of the document included in Part C1.4: **Form of Advance Payment Guarantee** and shall come into force, be administered and expire in terms thereof.

The Employer shall return the guarantee to the Contractor within 14 days after the expiry date.

The provision of the Advanced Payment Guarantee shall be at the Contractor's cost.

The term "deposit" or "deposit with order" used in the context of this Clause and elsewhere by reference to this Clause, means a sum payable by the Contractor to a manufacturer/supplier prior to the manufacture of an item of Plant or material, required at the time of placing an order, the balance of the value of the item being payable later.

### Clause 8.6.1:

The insurances to be effected and maintained by the Contractor shall be in the form of a blanket/umbrella policy per region for this term tender contract. This policy shall be endorsed as and when required to reflect each Works Project that may be allocated to the Contractor.

#### Clause 8.6.1.1.1:

The Contract Price shall, for insurance purposes, include for individual Contract Sums of up to **R4 000 000** for each Works Project per area.

#### Clause 8.6.1.1.2:

The value of Plant and materials supplied by the Employer to be included in the insurance sum is R 0.00 (Nil).

### Clause 8.6.1.1.3:

The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is R0.00 (Nil).

#### Clause 8.6.1.3:

The limit of indemnity for liability insurance is R20 000 000.00 for any single claim – the number of claims to be unlimited during the construction and defects liability periods.

#### Clause 8.6.1.5:

In addition to the insurances required in terms of General Conditions of Contract Clauses 8.6.1.1 to 8.6.1.4 the following insurance is also required:

- a) Insurance of Construction Equipment (including tools, offices and other temporary structures and contents) and other things (except those intended for incorporation into the Works) brought onto the site for a sum sufficient to provide for their replacement.
- b) Insurance in terms of the provisions of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.
- c) Motor Vehicle Liability Insurance comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity.
- d) Where the contract involves manufacturing and/or fabrication of the works or part thereof at premises other than the Site, the Contractor shall satisfy the Employer that all materials and equipment for incorporation in the works are adequately insured during manufacture and/or fabrication. In the event of the Employer having an insurable interest in such works during manufacture or fabrication then such interest shall be noted by endorsement to the Contractor's Policies of Insurance.

### Clause 8.6.5:

Delete the following from Clause 8.6.5:

"and the terms thereof shall be subject to the approval of the Employer's Agent, which approval shall not be unreasonably withheld."

### Clause 8.6.6:

Replace clause 8.6.6 with the following:

The evidence that the insurances have been effected in terms of Clause 8.6.1, shall be in the form of an insurance broker's warranty per area worded precisely as given in Part C1.7 Insurance Broker's Warranty.

In addition, an insurance broker's warranty will be required for every Works Project as and when the contractor submits an offer for a Works Project contract. This warranty shall, *inter alia*, confirm that the applicable blanket/umbrella policy per area for the term tender contract has been endorsed to reflect the Works Project contract and that all premiums have been paid.

### Clause 8.6.7:

Add the following to the end of this Clause:

; and/or the Employer shall be entitled to exclude the Contractor from participating in any future Works Project processes until such time as satisfactory evidence has been provided.

#### Clause 9.1:

In Clause 9.1.6 replace "and 9.1.3" with:

, 9.1.3 and 9.1.7

Add the following Clause after Clause 9.1.6:

9.1.7 Death of Sole Proprietor/Member

Upon the death of the Contractor who was a Sole Proprietor, or a sole member of a Close Corporation, the Contract will terminate forthwith. The Employer shall pay to the Contractor's estate any money which it considers due under the Contract in terms of Clause 9.1.5, in full and final settlement thereoC.

9.1.8 Material Irregularity during procurement process

The Employer may terminate the contract 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.

9.1.9 Reputational risk or harm to the Employer

The Employer, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate the contract if the implementation of the contract may result in reputational risk or harm to the City as a result of (inter alia):

- 9.1.9.1 reports of poor governance and/or unethical behaviour;
- 9.1.9.2 association with known family of notorious individuals;
- 9.1.9.3 poor performance issues, known to the Employer;
- 9.1.9.4 negative social media reports; or
- 9.1.9.5 adverse assurance (e.g. due diligence) report outcomes.

### Clause 9.2.1:

Delete "or" at the end of Clause 9.2.1.3.6 and add the following Clause after Clause 9.2.1.3.7:

9.2.1.3.8 Has failed to provide the required insurances within the prescribed time,

Add the following Clause after Clause 9.2.1.3:

9.2.1.4 The Contractor has consistently failed to attend compulsory Works Project meetings, has consistently refused work opportunities, or has had a Works Project contract terminated by the Employer, then the Employer may, at its sole discretion, terminate the Framework Contract forthwith in its entirety, or with respect to a particular area.

Add the following Clause after Clause 9.2.3:

9.2.4 Employer's Elections in case of Insolvency

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:

- 9.2.4.1 accept a contractor's proposal (via the trustee / liquidator) to render delivery utilising the appropriate contractual mechanisms; or
- 9.2.4.2 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 10.5.3:

The number of ad-hoc Adjudication Board Members to be appointed is 1(one).

### ADDITIONAL CONDITIONS OF CONTRACT

Add the following Clause after Clause 10:

Clause 11 Details to be confidential

The Contractor shall treat the details of the Works comprised in this Contract as private and confidential (save in so far as may be necessary for the purposes hereof) and shall not publish or disclose the same or any particulars thereof in any trade or technical paper elsewhere without the prior written consent of the Employer's Agent.



### SPECIAL MATERIALS SCHEDULE (Not used)

Each material dealt with as a special material in terms of Clause 4.1 of the Contract Price Adjustment Schedule of the General Conditions of Contract is stated in the list below. The provisions of Clause 6.8.3 of the General Conditions of Contract shall apply to such special materials. The base prices for the special materials (current at the time of tender) shall be as stated in the schedule below, or where required, shall be furnished by the tenderer/contractor. Only those materials listed by the Employer below shall be considered as special materials.

Special Material	Unit	Base Price

### Conditions:

- 1) When called upon to do so, the contractor shall substantiate the prices to be used to determine the adjustment in respect of the special materials listed above with acceptable documentary evidence.
- 2) In the case of bituminous products, the Employer has provided, in the schedule above, a base rate for bitumen upon which the tendered rates will be deemed to be based, and which will be used for determining the adjustment in the price of such bituminous products.
- 3) Where an adjustment for the variation in the price of bituminous products is claimed, the claim must be substantiated by a declaration from the manufacturer, confirming the source of bitumen used in such bituminous products at the time in question.
- 4) Where the source of bitumen (the refinery) is located in the Western Cape Province, or where bitumen sourced from abroad is landed at a port in the Western Cape, the cost of transporting such bitumen within the boundaries of the Western Cape shall be included in the rate for bituminous products. Extraover rates to cover the cost of transporting bitumen from beyond the borders of the Western Cape have been measured separately in the Bill of Quantities.
- 5) Where imported bitumen used in bituminous products is landed at a port beyond the borders of the Western Cape, the importers must clearly state whether or not their price is inclusive of transport to the Western Cape, which will determine whether extra-over transport costs are applicable, or not. The price of the imported bitumen itself must be expressed as a landed price in ZAR.

ADVANCE PAYMENT SCHEDULE (Not used)

This Advance Payment Schedule is to be read in conjunction with Clauses 6.10.1.5.2, 6.10.1.5.3 and 6.10.10 in the Contract Specific Data. The purpose of this schedule is to itemise specific Plant and materials not yet brought on to the Site for building into the Permanent Works and for which the Employer is prepared to make advance payments to the Contractor, subject to the conditions below.

The items of Plant and materials which have been identified by the Employer as being suitable for advance payment in terms of the Contract are listed in the table below. Should an item or items be added to the list at tender stage by a tenderer, such item(s) will not be binding on the Employer.

Plant and materials which have been manufactured and are stored at places other than the Site:	Plant and materials yet to be manufactured and for which a deposit with order is required from the Contractor by a manufacturer/supplier, and which may be stored at places other than the Site after manufacture:

### **Conditions:**

- The Contractor can only rely on advance payment being permitted by the Employer in respect of the Plant and materials listed in the table above. The Employer may, however, permit advance payment for other Plant and materials in exceptional circumstances and at its sole discretion, during the course of the Contract, and upon reasonable request from the Contractor.
- 2) Advance payment for the purposes of deposits will only be provided up to a limit of 20% of the value of any one item being claimed.
- 3) The Contractor shall provide the Employer with documentary evidence of the terms and conditions for which a deposit with order is required by a manufacturer/supplier, together with the advance payment guarantee.
- 4) The Contractor will also be permitted to obtain advance payment for the balance of the value of the Plant and materials in respect of which he has paid a deposit, for an item which after manufacture is stored at a place other than the Site. The Contractor shall, in respect of such payment, provide an advance payment guarantee, either for such balance or, if the advance payment guarantee in respect of the deposit is to be returned by the Employer upon request, for the whole value of the item.

## Part 2: Data provided by the Contractor

Clause 1.1.1	.9:		
The name of	the Contractor is		
Clause 1.2.1	.2:		
The address	of the Contractor is		
Physical : Address		Address	
Telephone :		Fax:	
email :			

### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

# TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

### C1.3 Form of Performance Guarantee

### PERFORMANCE GUARANTEE

For use with the Conditions of Contract as described in C1.2 Contract Data Part 1: Contract Data provided by the Employer.

### GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means: .....

"Physical address:

"Employer" means: The City of Cape Town, WATER AND WASTE: WATER AND SANITATION .

"Contractor" means: The Contractor named in an individual Works Project Contract.

"Employer's Agent" means: .....

"Works" means: Works Projects which may be allocated in an Area, individually or as a whole as the context provides, under Framework CONTRACT NO. 95Q/2020/21 : TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS.

"Site" means: The site as defined in the Contract Data

"Contract" means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties, and includes the Works Project Agreement.

"Guaranteed Sum" means: The maximum aggregate amount of R200 000.00.

Amount in words: Two hundred thousand Rand.

"Expiry Date" means: The date of issue by the Employer's Agent of the last Certificate of Completion of the Works for the Works Projects in an area.

### CONTRACT DETAILS

Employer's Agent issues: Interim Payment Certificates, Final Payment Certificates and the Certificates of Completion of the Works, in respect of individual Works Projects, as defined in the Contract.

### PERFORMANCE GUARANTEE

- 1. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 2. The Guarantor's period of liability shall be from and including the date of issue of this Performance Guarantee and up to and including the Expiry Date or the date of payment in full of the Guaranteed Sum, whichever occurs first. The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the last Certificate of Completion of the Works for the Works Projects in an area has been issued.
- 3. The Guarantor hereby acknowledges that:
- 3.1 any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;

3.2 its obligation under this Performance Guarantee is restricted to the payment of money.

- 4. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
- 4.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
- 4.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum certified has still not been paid;
- 4.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.
- 5. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
- 5.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 5; or
- 5.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 5; and
- 5.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 6. It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.
- 7. Where the Guarantor has made payment in terms of 5, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
- 8. Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 9. The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may deem fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 10. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 11. This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 2, whereafter no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 12. This Performance Guarantee, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.

13. Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at
Date
Guarantor's signatory (1)
Capacity
Guarantor's signatory (2)
Capacity
Witness signatory (1)
Witness signatory (2)

### ANNEXURE

### LIST OF APPROVED FINANCIAL INSTITUTIONS

The following financial institutions are currently (as at 18 October 2016) approved for issue of contract guarantees to the City:

### National Banks:

ABSA Bank Ltd. FirstRand Bank Ltd. Investec Bank Ltd. Nedbank Ltd. Standard Bank of SA Ltd.

### International Banks (with branches in SA):

Barclays Bank plc. Citibank n.a. Credit Agricole Corporate and Investment Bank HSBC Bank plc. JP Morgan Chase Bank Societe Generale Standard Chartered Bank

### Insurance companies:

ABSA Insurance Coface s.a. Compass Insurance Co. Constantia Insurance Co. Credit Guarantee Insurance Co. Guardrisk Insurance Co. Hollard Insurance Company Ltd. Infiniti Insurance Limited Lombard Insurance New National Assurance Co. Regent Insurance Co. Renasa Insurance Company Ltd. Santam Limited Zurich Insurance Co.

### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

# TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

## C1.4 Form of Advance Payment Guarantee

### ADVANCE PAYMENT GUARANTEE

For use with the Conditions of Contract as described in C1.2: Contract Data Part 1: Contract Data provided by the Employer.

**GUARANTOR DETAILS AND DEFINITIONS** 

"Guarantor" means:

"Physical address:

"Employer" means: The City of Cape Town, WATER AND WASTE: WATER AND SANITATION .

"Contractor" means: .....

"Employer's Agent" means: .....

"Works" means: Works Project No. DP4455Q/2018/19 WP-01: DESCRIPTION OF WORKS PROJECT, to be executed in an Area under Framework CONTRACT NO. 95Q/2020/21 : TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS.

"Site" means: The site as defined in the Contract Data.

"Contract" means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties, and includes the Works Project Agreement.

"Plant and materials" means: The Plant and materials stored at places other than the Site, or in respect of which an advance payment prior to manufacture is required, which the Employer has agreed may be subject to advance payment, such Plant and materials being listed in the Schedule of Plant and materials.

"Schedule of Plant and materials" means: A list of Plant and materials which shows the value thereof to be included in the Guaranteed Advance Payment Sum.

"Guaranteed Advance Payment Sum" means: The maximum aggregate amount of R .....

Amount in words:

"Expiry Date" means: The date of the payment certificate wherein the Plant and materials have been certified by the Employer's Agent as having been built into the Permanent Works.

CONTRACT DETAILS

Employer's Agent issues: Interim Payment Certificates and Final Payment Certificate for each Works Project.

ADVANCE PAYMENT GUARANTEE

- 1. The Guarantor's liability shall be limited to the amount of the Guaranteed Advance Payment Sum.
- The Guarantor's period of liability shall be from and including the date of issue of this Advance Payment Guarantee and up to and including the Expiry Date or the date of payment in full of the Guaranteed Advanced Payment Sum, whichever occurs first.
- 3. The Guarantor hereby acknowledges that:

- 3.1 any reference in this Advance Payment Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
- 3.2 its obligation under this Advance Payment Guarantee is restricted to the payment of money.
- 4. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
- 4.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
- 4.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the first written demand in terms of 4.1 and the sum certified has still not been paid;
- 4.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.
- 5. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the Employer the Guaranteed Advance Payment Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Advance Payment Guarantee, such demand stating that:
- 5.1 the Contract has been terminated due to the Contractor's default and that this Advance Payment Guarantee is called up in terms of 5; or
- 5.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Advance Payment Guarantee is called up in terms of 5; and
- 5.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 6. It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.
- 7. Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 8.
- 8. The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may deem fit and the Guarantor shall not have the right to claim his release from this Advance Payment Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 9. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 10. This Advance Payment Guarantee is neither negotiable nor transferable and shall expire in terms of 2, whereafter no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 11. This Advance Payment Guarantee, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.

12. Where this Advance Payment Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at
Date
Guarantor's signatory (1)
Capacity
Guarantor's signatory (2)
Capacity
Witness signatory (1)
Witness signatory (2)

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## Schedule of Plant and materials

For use with Advance Payment Guarantees on contracts using the General Conditions of Contract for Construction Works, Third Edition, 2015.

Employer The City of Cape Town, WATER AND WASTE: WATER AND SANITATION

Contractor

Works Works Project No. 95Q/2020/21 WP-01: DESCRIPTION OF WORKS PROJECT, to be executed in an Area under Framework CONTRACT NO. 95Q/2020/21 : TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

Payment Certificate No. .....

Advance payment is requested in respect of the following items of Plant and materials, which have been manufactured and are stored at places other than the Site, or in respect of which a deposit with order is required from the Contractor by a manufacturer/supplier:

Bill of Quantities item no.	Description of Plant and materials	Deposit with order required (Y/N)	Place of storage (or manufacture, if deposit with order is required)	Unit	Quantity	Unit price R c	Total Price R c
Total Value of Plant and materials to be included in Guaranteed Advance Payment Sum R							

Signed at ......day of......20.....

for the Contractor

As witness

.....

Approved by Employer's Agent

.....

.....

### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

### **C1.5 Occupational Health and Safety Agreement**

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

, (Contractor/Mandatary/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.

COID ACT Registration Number:

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 Occupational Health and Safety Specifications contained in this tender and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan submitted and approved in terms thereof.

Signed at	on the	day of	20
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Witness

Mandatary

Witness

for and on behalf of City of Cape Town

### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

## TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

### **C1.6** Protection of the Environment Declaration

### PROTECTION OF THE ENVIRONMENT DECLARATION

The Contractor will not be given right of access to the Site until this form has been signed

### CONTRACT NO.: DP4455Q/2018/19

## CONTRACT TITLE: TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

I/ we,......{Contractor} record as follows:

- 1. I/ we, the undersigned, do hereby declare that I/ we am/ are aware of the increasing requirement by society that construction activities shall be carried out with due regard to their impact on the environment.
- 2. In view of this requirement of society and a corresponding requirement by the Employer with regard to this Contract, I/ we will, in addition to complying with the letter of the terms of the Contract dealing with protection of the environment, also take into consideration the spirit of such requirements and will, in selecting appropriate employees, plant, materials and methods of construction, in-so-far as I/ we have the choice, include in the analysis not only the technical and economic (both financial and with regard to time) aspects but also the impact on the environment of the options. In this regard, I/ we recognise and accept the need to abide by the "precautionary principle" which aims to ensure the protection of the environment by the adoption of the most environmentally sensitive construction approach in the face of uncertainty with regard to the environmental implications of construction.
- 3. I/ we declare that I/ we have read and understood the contents of the Environmental Management Programme (which is comprised of the Environmental Management Specification and its Annexures) for this Contract, and that I/ we understand my/our responsibilities in terms of enforcing and implementing the Environmental Management Programme. I/ we also declare that I/ we have made appropriate provision in my/ our pricing of the Schedules of Rates items for the Environmental Management Programme.
- 4. I/ we acknowledge and accept the right of the Employer to deduct, should he so wish, from any amounts due to me/ us, such amounts (hereinafter referred to as fines) as the Employer's Agent shall certify as being warranted in view of my/ our failure to comply with the terms of the Contract dealing with protection of the environment, subject to the following:
- 4.1 The Employer's Agent, in determining the amount of such fine, shall take into account, *inter alia*, the nature of the offence, the seriousness of its impact on the environment, the degree of prior compliance/non-compliance, the extent of the Contractor's overall compliance with environmental protection requirements and, in particular, the extent to which he considers it necessary to impose a sanction in order to eliminate/reduce future occurrences
- 4.2 The Employer's Agent shall, with respect to any fine imposed, provide me/ us with a written statement giving details of the offence, the facts on which the Employer's Agent has based his assessment and the terms of the Contract (by reference to the specific clause) which has been contravened.

Signed	
-	CONTRACTOR

Date.....

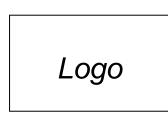
### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

## C1.7 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 8001

Dear Sir

CONTRACT NO.: 95Q/2020/21

**CONTRACT TITLE:** TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS (AREA X)

NAME OF CONTRACTOR: \_\_

I, the undersigned, do hereby confirm and warrant that all the insurances required in terms of the abovementioned term tender contract have been issued and, in the case of blanket/umbrella policies, will be endorsed to reflect the interests of the CITY OF CAPE TOWN with regard to each Works Project 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

For:

### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

## C1.8 Contract of Temporary Employment as Community Liaison Officer

Construction Contract No.: .....

PROJECT.....

### 1. THE PARTIES HAVE AGREED THAT

The CLO will be employed by the CONTRACTOR on a temporary basis for the duration of the work from the date of signing this agreement to the date of practical completion as defined in the Contract, subject to all the conditions set out below.

### 2. THE DUTIES OF THE COMMUNITY LIAISON OFFICER SHALL BE:

- 1. to keep the community informed on the progress of the project;
- 2. to keep the Contractor informed on relevant Community affairs and possible grievances;
- 3. to manage the recruitment of workers from the Sub-Council Job-Seekers Database;
- 4. to assist the Contractor's supervisory staff in the management of the workers.

### 3. THE FOLLOWING CONDITIONS OF EMPLOYMENT SHALL APPLY:

The Conditions of Temporary Employment as applicable on this Contract for the workers recruited from the Community shall apply equally to the CLO, except that the rate of remuneration shall be  $\mathbf{R}$ ......per working day. These conditions that apply are listed below as they appear in the Contract of Temporary Employment:

- 3.1 If required to work on a statutory public holiday or Sunday the payment will be double the amount stated in the previous paragraph.
- 3.2 Maximum hours of work:
  - (i) 9<sup>1</sup>/<sub>4</sub> hours per day
  - (ii) 45 hours per week;
  - (iii) 5 days per week;
  - (iv) 5 hours without an interval, whereupon there shall be an interval of at least 30 minutes;
  - (v) A spread-over period of 12 hours.
- 3.3 The CLO shall be entitled to payment where he is prevented from working by reasons which are within the control of the Contractor.
- 3.4 On days when it is raining the Contractor may, before 9 a.m., decide not to open the site and there will be no pay.

If the Contractor closes the site between 9 a.m. and 1 p.m., the CLO will be paid half the daily wage.

If the site works later than 1 p.m., the CLO will be paid the full daily wage.

- 3.5 Workers and the CLO will not be permitted to work under conditions of:
  - (i) undisciplined or unruly behaviour;
  - (ii) insubordination to Team Leader, Supervisors or Management;

- (iii) abuse of intoxicating substances;
- (iv) criminal actions by the employee;
- (v) strike action or political stayaways.
- 3.6 Workers, including the CLO, may be dismissed after two official written warnings for the following behaviour:
  - (i) undisciplined or unruly behaviour;
  - (ii) insubordination to Team Leader, Supervisors or Management;
  - (iii) abuse of intoxicating substances;
  - (iv) wilful or negligent damage to or loss of machines or equipment.

The Contractor shall ensure that he has statements from at least two witnesses concerning any of the above situations.

The Contractor shall inform the CLO within 24 hours of any warning issued to workers employed from the Job-Seekers Database.

- 3.7 The CLO will be paid on a Friday afternoon every two weeks, one week in arrears.
- 3.8 The CLO shall be given a statement with each payment on which is recorded:
  - (i) the name of the Contractor;
  - (ii) the CLO's name;
  - (iii) the number of days worked by the CLO;
  - (iv) the rate per day;
  - (v) the details of any deductions made;
  - (vi) the actual amount paid to the CLO.
- 3.9 No deduction shall be made from the remuneration except where the CLO consents in writing or unless the Contractor is permitted or required to do so by law or the order of any competent court.
- 3.10 The CLO shall be supplied free of charge with all health and safety equipment required by the Occupation Health and Safety Act. The equipment shall remain the property of the Contractor.
- 3.11 The Contractor must give the CLO at least one week's notice of the termination of the Contract of Temporary Employment. If this is not done, the CLO must be paid earnings for five days. This condition does not apply if the CLO is dismissed.
- 3.12 At the end of the period of temporary employment, the Contractor shall provide a Certificate of Service recording the Contractor's name, the CLO's name and address, the period of service, the type of work on which the CLO was engaged and the rate of remuneration on termination.

### 4. TERMINATION OF AGREEMENT

4.1 If the CLO can no longer perform and execute his/her duties as detailed in this agreement, this agreement will be terminated without prejudice to any rights under this agreement.

### 5. THE CONDITIONS OF THIS AGREEMENT

5.1 The parties expressly declare that this agreement contains all the conditions negotiated between them, and no condition or stipulation not contained herein shall be binding upon the parties.

### 6. THUS AGREED AND SIGNED BY THE PARTIES:

Contractor:	
Community Liaison officer:	
Date:	

### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

## TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

## C1.9 Works Project Acceptance/Refusal Notice

Should the contractor accept the work opportunity, he shall do so on this form as part of his Works Project offer.

Should the contractor wish to refuse the work opportunity, he shall do so on this form, which must be returned to the offices of the Employer's agent as soon as possible, but not later than the date for submission of the offer.

The contractor who fails to submit a refusal notice, or an offer, by the due date will be **excluded** from further participation in the work allocation process.

I/We herewith

Accept		
	ļ	Tick applicable box
Refuse		

the opportunity afforded to me/us by the City of Cape Town to participate in the work allocation process as set out in the Work Allocation Procedures for the work specified in the Works Project contract document.

I/We accept that no contractor will be allocated work unless the contractor has demonstrated to the satisfaction of the Employer that he has the resources, including a <u>site specific</u> construction manager, required for this Works Project.

I/We agree to the construction time period specified in the Scope of Work.

CONTRACTOR'S NAME:

AUTHORISED CONTACT PERSON (NAME): .....

SIGNATURE: .....

DATE:....

# Part C2: Pricing Data

C2.1	Pricing Assumptions	Pages 144 – 145
C2.2	Schedules of Rates	41 – 62

### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

## TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

## **C2.1 Pricing Assumptions**

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

These Pricing Assumptions are applicable to the Schedules of Rates in this document. Pricing Assumptions applicable to the Bills of Quantities in Works Project contract documents are provided in such documents.

- 1. The method of measurement prepared by the Committee of Land Transport Officials in clause 8 of the Standardized Specifications for Civil Engineering Constructions is applicable, subject to the vitiations and amendments contained in the section "Applicable SANS 1200 standardized specifications.
- 2. Descriptions in the Schedules of Rates are abbreviated and comply generally with those in the Standardised Specifications. The measurement and payment clauses of each Standardised Specification, read together with the relevant clauses of the Scope of Work, set out what ancillary or associated activities are included in the rates for the operations specified. Should any requirements of the measurement and payment clause of the applicable Standardised Specification, or the Scope of Work, conflict with the terms of the Schedules of Rates, the requirements of the Standardised Specification or Scope of Work, as applicable, shall prevail.
- 3. The clauses in a specification in which further information regarding the schedule ite, appears under "Reference clause" in the schedule. The reference clauses indicated are not necessarily the only sources of information in respect of the schedule item. Further information and specification may be found elsewhere in the contract documents. Standardised Specifications are identified ny the letter or letters which follows SANS in the 1200 series of specifications, e.g. G for SANS 100 G.
- 4. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
- 5. No quantities are set out in the Schedules of Rates and the Contractor will be required to undertake whatever quantities may be directed by the Employer's Agent from time to time in the relevant Works Project. The final Contract Price for each completed Works Project shall be computed from the actual quantities of work done, valued at the relevant rates (refer to Clause 10 in these Pricing Assumptions in this regard).
- 6. Rates inserted in the Schedules of Rates are deemed to be based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to <u>www.stanza.org.za</u> or <u>www.iso.org</u> for information on standards).
- 7. The rates (excluding VAT) inserted in the Schedules of Rates shall be the full inclusive rates for the work described under the several items. Such rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit. Reasonable rates shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out.

Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith shall be provided for and included in the rates tendered for such items.

- 8. A rate is to be entered against each item in the Schedules of Rates for the Areas selected by the Tenderer 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.
- 9. The units of measurement described in the Schedules of Rates are metric units. Abbreviations which may be used in these Schedules of Rates are as follows:

mm = Millimetre	h	=	hour	
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C2.1 Pricing Assumptions

m	=	Metre	kg	=	kilogram
km	=	Kilometre	t	=	ton (1000 kg)
km-pass	=	kilometre-pass	No.	=	number
m2	=	square metre	sum	=	lump sum
m2.pass	=	square metre-pass	MN	=	meganewton
ha	=	Hectare	MN.m	=	meganewton-metre
m3	=	cubic metre	P C sum	=	Prime Cost sum
m3.km	=	cubic metre-kilometre	Prov sum	=	Provisional sum
I	=	Litre	%	=	per cent
kl	=	Kilolitre	kW	=	kilowatt
MPa	=	Megapascal	day	=	Working day
kPa	=	Kilopascal			

# 10. Tenderers are only to price their Areas of Preference as they have indicated on the relevant returnable schedule, in accordance with clauses C.1.6.1 and C.2.10.5 in Part T1.2 Tender Data.

11. Tenderers shall provide rates for the execution of items as specified in the Schedules of Rates. Unless otherwise described in the items in the Schedules of Rates, all rates (sums in particular) apply to individual Works Project contracts. Framework Contract pay items shall be initial one-off payments in the Framework Contract.

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, as well as in the allocation of individual Works Projects in accordance with Clause 2.6 in Part C1.2 Contract Data and the Procedures for the allocation of Works Projects referred to therein.

- 12. Tenderers shall provide rates (excluding VAT) for each required rate category (if provided) for each item specified in every schedule in the Schedules of Rates applicable to the region(s) tendered for (refer to clause C.2.10.5 in Part T1.2 Tender Data). Prime Cost and Provisional Sums will be multiplied by a factor (quantity) to be provided by the Employer at Works Project stage only.
- 13. Tenderers are referred to clause C.1.6.1 in Part T1.2 Tender Data with regard to working within the boundaries of the four areas identified within the City of Cape Town municipal area, as shown on the drawings and as tabled therein.

Rates submitted in the respective Schedules of Rates shall apply to Works Projects executed anywhere within that specific area.

- 14. The Employer will only order those quantities of work items, which it actually requires for execution in a Works Project from time to time. The Employer reserves the right not to order any quantities at all depending on circumstances and subject to operational requirements.
- 15. The procedures for allocation of Works Projects are specified in Part C1.2 Contract Data (refer to Clause 2.6).
- 16. 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 tender in the place of 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.

- 17. Tenderers are referred to Clause E8 Measurement and Payment in the Environmental Management (EM) Specification in Part C3.5 in the Scope of Work for the basic principles of measurement and pricing of the EM Specification.
- 18. Tenderers are referred to Clause 6.8.2 in Part C1.2 Contract Data regarding contract price adjustment.

# Part C3: Scope of Work

C3.1	Description of the Works	Pages 147 – 152
C3.2	Engineering	153
C3.3	Procurement	154 – 155
C3.4	Construction	156 – 167
C3.5	Management	168 – 205
C3.6	Annexes	206 – 215

# <u>Status</u>

Should any requirement or provision in the parts of the Scope of Work conflict with any requirement of any Standardised Specification, particular specification or any drawings, the order of precedence, unless otherwise specified, is:

Drawings Scope of Work (Parts C3.1, C3.4, C3.5 and C3.6) Particular Specifications SANS Standardised Specifications

#### **CITY OF CAPE TOWN**

### WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

# C3.1 Description of the Works

# CONTENTS

- 3.1.1 EMPLOYER'S OBJECTIVES
- 3.1.2 OVERVIEW OF THE WORKS
- 3.1.3 EXTENT OF THE WORKS
- 3.1.4 LOCATION OF THE WORKS
- 3.1.5 TRAFFIC ACCOMMODATION

#### 3.1.1. EMPLOYER'S OBJECTIVES

The Employers objectives are to replaced aged and or damaged domestic water meters and installation of new connections.

#### 3.1.2. OVERVIEW OF THE WORKS

#### 3.1.2.1. General Descriptions

This tender involves the supply of all materials (excluding the water meters which will be supplied by the City), tools equipment and labour required to repair, replace and install new bulk water meters.

All fittings and materials shall be approved in accordance to the requirements of SANS 10252-1 and or JASWIC. In the case where the contract requires a specific fitting or material where there is no such fitting available that is SABS or JASWIC approved, the Project Manager or his Representative may allow the use of such fitting or material provided that it meets the City's specification. Proof that an application has been made to the SABS/JASWIC for approval is also required.

Any fittings and materials whilst still under the supplier's/manufacturer's warranty/guarantee period that becomes faulty or breaks during the contract period shall be replaced by the contractors at their cost.

#### 3.1.2.2. Allocation of work

A monthly update shall be provided to each contractor of how much work was allocated and how much work was outstanding and still in possession of the contractor.

Should any contractor not meet the required standards and prescribed targets then the City reserves the right to take appropriate action in terms of this contract and the City's vendor dissatisfaction procedures will be followed.

#### 3.1.2.3. Occupation of the site

Access to the site of the works will be given to the Contractor on the Commencement Date, provided that a Purchase Order or orders for installations were received by the Contractor.

The site of the works may include portions of existing public roads and footpaths, which will remain in use during the course of the work. Every effort shall be made by the Contractor to minimise the disruption to existing pedestrian and traffic flows during construction. No roads or traffic lanes may be closed without the prior written approval of the Project Manager and traffic shall be accommodated as shown on the drawings.

Where existing roads are used, they shall be protected from damage by extraordinary traffic. The Contractor shall immediately repair any damage done by him to fences, gateways, drains or to any other structure during the execution of the Contract and shall leave everything in the same state as it was found by him.

The Contractor shall as far as possible confine his operations to within the limits of the site or land provided by the Employer, but if this is inadequate for his purpose, he shall make all arrangements for any further land he may require and shall pay all costs and charges in this connection.

The Contractor shall afford all reasonable pedestrian and/or vehicular access to all owners or occupiers of properties abutting the works to the satisfaction of the Project Manager.

Workers employed by the Contractor will not be permitted on private property abutting the works during its progress unless such presence is required to successfully complete the work and permission from the owner/occupier has been granted.

#### 3.1.2.4. Admnistrative Processes

### 3.1.2.4.1. Mobility Solution

(a) The City of Cape Town has implemented a mobility solution to enhance the operational efficiency of this process. For this purpose, Hand Held Terminal Units are required for this contract to successfully undertake the function of mobility.

The Contractor will be required to provide his/her own Hand Held Terminals (HHTs) (1 per team) compatible with the City of Cape Town's computerised meter reading system (SAP) together with a robust upload and download platform with appropriate operating and interfacing software.

The device must have the following minimum:

- · 1.4 GHz, Quad-Core
- · 2 GB RAM, 16 GB internal store
- · 4G (LTE) enabled
- 5" min 8" max ~ multi-touch displays with 1280 x 720 resolution
- · 8 MP rear & 5 MP front cameras
- · SD Slot
- · GPS enabled
- · Micro USB 2
- · Android 7.0 (Nougat)
- · IP68 standards (water and dust resistant)
- Integrated ruggedized case / device would be recommended
- · RoHS compliant
- Knox standard

The Contractor will not commence with the contract without the HHTs as this is an integral part of the contract. All software installed on the HHTs by the City of Cape Town will remain the property of the City of Cape Town and will be relinquished at the end of the contract or as determined by the City of Cape Town. The Contractor shall safeguard all software supplied and shall only use such software in the execution of the contract. Should it be found that the Contractor or his staff has abused the software for personal gain the Contractor shall be penalised the sum of R5 000 per incident and shall cover the cost of the illegal use of water consumed.

(b) In principle, Mobility will have the following steps:

i. The contractor will receive a Service Order through the Works Order Portal of City of Cape Town.

ii. Contractor to assign Service Orders to their teams for installation (and plumbing if required)

iii. Contractor to capture data on their devices as per City of Cape Town Mobility process (pre, during, after installation etc.)

iv. Once work in the field is completed, it will be placed in a verification lot, on which the City of Cape Town will do inspections.

v. Once the samples have been quality checked and passed, the lot will be approved and the contractor can invoice.

# 3.1.2.4.2. Paper Based

A4 colour all photographs must be camera date stamped

Photographs to clearly depict the existing meter number and reading and the new installation meter number and reading

The photos must depict the exposed work in progress and reinstated work

The Frequency of delivery of service orders and feedback must be daily uploaded onto the City's "Cloud Drive" provided that it is part of the peering agreement with the City of Cape Town

An official of the City will arrange for the agreement provided that the service provider complies with the requirements of this agreement.

Once the document is scanned in, it must indicate the service order number and it must be in a PDF format.

No one at home and refusals must be uploaded on a weekly basis. What needs to be uploaded is an excel spreadsheet with contract account number, the date the property was visited and the outcome if it was a refusal or no one at home.

The spreadsheet must accompany a copy of the refusal letter and the not at home letter

Should these returns not be delivered on a weekly basis it will have an impact on the invoicing and delay in payment and no new work shall be issued until such time the weekly returns have been complied with. The turnaround time for increase in allocation physically on site shall be no longer than one working 8

hour working day. Every day that the increase has not been physically executed in the field the penalty clause shall be invoked.

The City of Cape Town shall provide a standardized format of invoicing in order for the bidders to comply with. Should the bidders not comply with the standardized format the invoice shall not be processed. The drop off of hard copies of Excel spreadsheets, service orders and invoices shall be before 12: 30pm.Should it be dropped off later than the between 12:30pm and 1pm the drop of documents will not be receipted as acknowledgement and shall not be attended to

### 3.1.2.5. Service order details

Existing meter final reading new meter reading setting, installation date, location of the new meter whether on property or on the footway and any other additional information obtained on site must be recorded in the long text of the physical service order.

Any missing information not provided shall be rejected and only such time when its corrected shall the invoice be approved and processed for payment.

Should the quantities on the invoice not be congruent to the number of service orders linked to it, it shall be put aside and contractor shall be communicated to by the City officials to resolve the issue.

#### 3.1.2.6. Dayworks and Plant Charges

This shall only be paid for if a written works instruction is accompanied with the invoice illustrating the additional work

Day works shall be separately invoiced and payment will only be made once the additional work has been measured and checked by an official of the City of Cape Town in conjunction with a representative of the company.

Please note that the site instruction shall be issued on its merits. No blanket site instructions shall be given except for new developments or where the work is clustered in one area.

### 3.1.2.7. Material Charges

These are for materials which may be used other than those described in the schedule of rates. Proof must be provided of such materials when and where it was used and must be accompanied with the invoice.

#### 3.1.2.8. Unit Measure as per the Bill of Quantities

The unit measure as per the pricing schedule of the Bill of Quantities shall inter alia include the costs of: Plant and Equipment

Vehicles and Fuel Labour Material Company Over Heads and Administrative costs and Other Under no circumstance can day works be claimed in

Under no circumstance can day works be claimed in this instance unless a site instruction has been issued as referred to under the heading day works and plant charges.

## 3.1.2.9. Sub-Contracting

When the main contractor has appointed a sub-contractor the sub-contractor must be registered with the CIDB and have the same CIDB registration requirement as required by the tender. Proof must be provided in writing by the sub-contractor including their CIDB registration that they were appointed as the sub-contractor to the main contractor. No sub-contracting shall be allowed unless this requirement has been complied with and the sub-contractor meets the requirements as outlined above.

#### 3.1.3. EXTENT OF THE WORKS

The work that is to be carried out under the contract is as provided for in this tender document and entail the supply of all materials (excluding the water meters which will be supplied by the City), tools, equipment and labour required to repair, replace and install domestic water meters.

Each works projects before it has started shall have a before and after completion photograph attached to the service order of those works projects completed. The before photograph shall be taken when the work that was done is still exposed and the after photograph shall be taken when the work is covered up and reinstated. Only once this has been complied with will payment be processed. Should any service order not have a photograph attached to it, it shall be set aside until such has been provided otherwise no payment will be made.

Each completed works projects must be accompanied with a certificate of compliance before any payment is processed

# 3.1.4. LOCATION OF THE WORKS

The successful tenderer(s) will be required to work within the boundaries of any of the four Area s in the City of Cape Town municipal area as shown on this document.

Site conditions will vary but it is anticipated that most of the work will be within an urban environment, in industrial as well as in residential areas.

The rates submitted in the Schedule of Rates shall apply anywhere within a specific area.

# 3.1.5. TRAFFIC ACCOMMODATION

- (a) The safety and convenience of the travelling public is to be considered of utmost importance and every effort must be made to ensure that in the event that they are required, all temporary road signs, cones, flagment and speed controls are maintained and effective, and that courtesy is extended to the public at all tims.
- (b) The contractor may not commence construction activities before adequate provision has been made to accommodate traffic in accordance with the requirements of Chapter 13 of Volume 2 of the South African Road Traffic Signs Manual (SARTSM).
- (c) The contractor shall submit proposals in connection with all signs and accommodation of traffic to the Council Representative for approval.

### 3.1.6 FEATURES REQUIRING SPECIAL ATTENTION

#### 3.1.6.1 Existing Services

Prior to commencing work, the Contractor shall confirm with all Authorities and Departments concerned and obtain the necessary way leaves for both overhead and underground services affected by the Works and shall satisfy himself that he has obtained all the relevant information required to complete the Contract. The Contractor shall carry out the works with the minimum interference to existing services. He shall co-operate with all Authorities and Departments concerned and he shall be solely responsible for carrying out the following operations and checks:

(i) He shall inform all Authorities and Departments in good time before the correct stage of the construction is reached for the laying and/or relaying of any particular services.

(ii) He shall set out the lines and levels of kerbs, pipes, culverts and any other necessary features of the Contract in order that Authorities and Departments are able to lay and/or relay services correctly.

It shall be clearly understood that obtaining the necessary way leaves and any extra work, such as the removal of any portion of the Works already executed either by the Contractor or other Authority or Department and its subsequent re-execution, which is caused by the Contractor's failure to observe and carry out his responsibilities as specified, will be at his own cost.

If the Contractor considers that the progress of the works is being retarded by the failure of any Authority or Department to lay, remove or divert pipes, ducts, services, cables or poles within a reasonable time, he shall immediately notify the Project Manager in writing, stating clearly the number of days of delay claimed. The Project Manager will then decide whether such a claim is justifiable.

The cost of repairing any damage to services, due to miscalculations or negligence on the part of the Contractor or his failure to carry out the duties set out in this Clause, shall be borne by the Contractor.

#### (a) Protection of Overhead and Underground Services

Services and sub-surface obstructions likely to be affected by the work, based on available records and surveys, have been shown on the drawings. Although every care has been exercised in the presentation of the available data, the Employer cannot and does not vouch for the accuracy or completeness of the information shown. Whenever the Contractor deems it necessary to determine the exact location of an existing service or obstruction, he shall, at his own expense, make any examination that he may consider desirable in advance of the work, and the Employer does not accept any liability for loss, damage or delay to the Contractor as a result of the non-location or inaccurate location of services or obstructions.

Where no underground services are shown on the drawings or scheduled, but the possibility of their presence can be reasonably inferred, the Contractor shall in collaboration with the Engineer, search for such services to establish their positions well in advance of the work. A full report shall then be submitted in good time to the Engineer, to enable the necessary arrangements for the protection, removal or diversion of the services before work is commenced in their vicinity.

In the event of damage to existing services, the Contractor shall take such immediate action as is necessary to prevent further damage or danger to life or property and shall immediately notify the Engineer who will issue instructions as to the necessary repairs or protective measures to be taken. The cost thereof shall be borne by the Contractor irrespective of whether the repairs or protective measures were carried out by him or by or on behalf of the service authority or department concerned.

As soon as an underground service not shown on the drawings is discovered, it shall be deemed to be a known service and the Contractor will be held responsible for any subsequent damage to it. If such service is damaged

during the course of its discovery, the Contractor will be reimbursed for the cost of making good such damage, unless it is established by the Engineer that the Contractor did not exercise reasonable diligence and care and that the damage was avoidable.

# (b) Existing Services

"Existing service" shall include any service which has been temporarily taken out of service to allow for the execution of the works or which has been taken out of service as a result of an event which necessitated the execution of the works.

# (c) Condition of Existing Services

The Contractor acknowledges that he has inspected and examined all known existing services and all existing services subsequently discovered, as contemplated in (a) above and is satisfied that all such services were in an acceptable and serviceable state at the commencement of the works, alternatively, upon discovery thereof as contemplated in (a) above.

In the event of a dispute as to the acceptability and/or serviceability of an existing service at the commencement of the works or upon the discovery of such service, the Contractor shall bear the onus of proving that the service in question was not in an acceptable and/or serviceable state at the commencement of the works.

# (d) Maintenance, Protection and Relocation of Existing Services

During the course of the works, all existing services including traffic signals, water mains, sewers and storm water reticulation, electricity transmission and telephone lines, cables, poles and conduits whether in service or not shall be protected, supported and maintained to the satisfaction of the service authority or department concerned and the Engineer. The Contractor shall bear all costs in this regard.

Where a bank of underground ducts, cables, etc are crossed over a distance of less than 1.0m they shall be regarded as a single crossing. Hydrants under pressure, water main valve covers and manholes shall be kept unobstructed and accessible at all times.

The covers and frames of service manholes, catchpits, water mains, valve boxes and sewers will have to be adjusted where they are affected by roadwork's.

# (e) Work in Close Proximity to Existing Services

The Contractor shall note that no mechanical excavators or vibratory type compactors may be used within three (3) metres of any telecommunications or electrical services. No pegs or stakes shall be driven into the ground in the vicinity of underground services unless their exact positions have been determined.

The Contractor's attention is drawn to the following with regard to work done in the proximity of ESKOM and other electrical services:

# MACHINERY AND OCCUPATIONAL SAFETY ACT (Act No 6 of 1983) WITH REGULATIONS

#### D16 (7) Excavations

"The builder or excavator shall ascertain as far as practicable the location and nature of underground services likely to be affected by the excavation and take such steps as may be necessary to prevent danger to persons."

#### THE ELECTRICITY ACT (Act No 40 of 1958)

Section 51(3): Offences and Penalties

"Any person who without legal right (the proof of which shall be upon him) cuts or damages or interferes with any apparatus for generating, transmitting or distributing electricity, shall be guilty of an offence and liable on conviction to a fine not exceeding R1 000,00 or to imprisonment for a period not exceeding twelve months."

The Contractor shall take the above into account in the drawing up of his construction programme and in the calculation of his tendered rates, and shall note that no additional payment or compensation will be allowed for any additional costs or delays incurred as a result of compliance with these regulations, except as measured and paid under the Items listed in the Schedule of Quantities.

The Contractor shall allow all reasonable access to the representatives of any Authority or Department for the purpose of maintaining, laying and/or relaying any services, cables or mains during the period of the Contract.

Permanent alterations to existing services ordered in writing by the Engineer, and for which no separate provision has been made in the Schedule of Quantities, will be paid for under day works if required.

# 3.1.6.2 Security

The Contractor shall take every precaution to ensure safety and to protect the Works from theft and vandalism. The Contract shall be responsible for the safety and security of his personnel, materials on site and the Works in general at all times. The Contract shall therefore acquaint himself with the current situation in the area with regard to safety and security (liaising with the local police as necessary) and shall provide all security measures, including the employment of accredited security services, as deemed necessary to comply with the requirements under this clause on the Contract.

A pay item is included in the Schedule of Rates / Bill of Quantities to cover the cost of taking these precautions, together with any fencing, security guards, and any other incidental security measures, which the Contractor may require for the contract.

# 3.1.6.3 Standard of Materials, Workmanship, Testing and Performance

The attention of Tenderers is particularly drawn to the high standard of materials, workmanship, testing and performance applicable to his Contract as a whole and he shall convey this requirement to his proposed Sub-Contractors.

The Contractor will carry out control testing of materials and workmanship as required in terms of the specifications. Where necessary, the Engineer may carry out acceptance control testing. The Employer will not pay claims or grant extension of time for delays to the works resulting from the awaiting of test results. Testing as required by the Engineer will be effected as promptly as possible but it is in the Contractors own interest to submit material samples and other components of workmanship for testing in good time to assist in avoiding or minimizing delays.

# 3.1.6.4 Weatherproof Protection for Workers

All staff required to continue working during rain shall be provided with oilskins and rubber knee boots, or other approved protective clothing and footwear.

# 3.1.6.5 Night Work and Work on Public Holidays

Where the Contractor requires staff to work overtime, he shall make the necessary arrangements with the Project Manager and obtain written approval from the Project Manager. Approved overtime work to be in terms of the Schedule of Rates.

# 3.1.6.6 Construction in Confined Areas

It will be necessary for the Contractor to work within confined and restricted areas. No additional payment will be made for work done in such areas, despite indications to the contrary in the Standard Specifications

# 3.1.6.7 Health and Safety Plan

Prior to commencing work, the Contractor shall submit a Health and Safety Plan, compiled in accordance with the Health and Safety Specifications in C3.5: Management to the Engineer for approval. The Contractor

### **CITY OF CAPE TOWN**

# WATER AND WASTE: WATER AND SANITATION

# CONTRACT NO. 95Q/2020/21

TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

# C3.2 Engineering

# CONTENTS

3.2.1 DRAWINGS

# 3.2.1 DRAWINGS

The following drawing are applicable to this contract, attached as **Annex 6.1 & Annex 6.2** on **pages 214 & 215** and is issued with this document and will form part of the contract document.

• City of Cape Town Typical Water Meter Chamber - W4A & W4B

#### **CITY OF CAPE TOWN**

#### WATER AND WASTE: WATER AND SANITATION

# CONTRACT NO. 95Q/2020/21

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# C3.3 Procurement

# CONTENTS

- 3.3.1 PREFERENTIAL PROCUREMENT
- 3.3.2 SUB-CONTRACTING PROCEDURES

## 3.3.1 PREFERENTIAL PROCUREMENT

The Works, and Works Projects, 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.

The declarations made in the **Preference Schedule** of the framework contract will be used in the evaluation of tender offers as described in clause C.3.11 in Part T1.2 Tender Data.

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

Notwithstanding the application of penalties, the Contractor'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.

# 3.2.2. SUB-CONTRACTING PROCEDURES

#### 3.2.2.1 Monitoring the use of sub-contractors

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

In order, however, to comply with the requirements of the **Preference Schedule**, the Contractor 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 Contractor 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 Contractor. 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 Contractor 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 Contractor.

#### 3.2.2.2 Procedure for the selection of sub-contractors/suppliers

Where monetary allowances for provisional sums or prime cost items have been provided in the Bills of Quantities in the Works Project contract document, and where the work or items to which the allowances relate are to be executed/supplied by sub-contractors/suppliers, then the following selection process shall be followed in respect of the required sub-contractors/suppliers:

Where the monetary allowance is less than or equal to R300 000, the Contractor shall invite three quotations from suitably qualified sub-contractors/suppliers for the required work or items. The selection of the three sub-contractors/suppliers shall be in consultation with, and to the approval of the Employer's Agent. The evaluation of the quotations received must include a preference points system as described in C.3.11 of the Tender Data.

Where the monetary allowance is in excess of R300 000, an open competitive tender process shall be followed in respect of the selection of a sub-contractor/supplier for the required work or items. In such circumstances, tender documentation will be prepared by the Employer's Agent in consultation with and to the approval of the Contractor,

invitations to tender will be advertised in the media by the Employer's Agent on behalf of the Contractor, and a sub-contractor/supplier will be selected from the responses received, by the Contractor and Employer's Agent in consultation. The evaluation of the offers received must include a preference points system as described in C.3.11 of the Tender Data. The Contractor must satisfy him/herself that the selected sub-contractor/supplier can meet the requirements of the sub-contract /supply agreement and may, on reasonable grounds, elect not to employ a particular sub-contractor/supplier.

In both instances above (less than or equal to R300 000 or in excess of R300 000), the contractual relationship between the Contractor and sub-contractor/supplier shall be as described in Clause 4.4.3 of the General Conditions of Contract.

#### **CITY OF CAPE TOWN**

## WATER AND WASTE: WATER AND SANITATION

### CONTRACT NO. 95Q/2020/21

# TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

# C3.4 Construction

# CONTENTS

- 3.4.1 TRADE NAMES OR PROPRIETARY PRODUCTS
- 3.4.2 APPLICABLE STANDARDISED SPECIFICATIONS
- 3.4.3 PARTICULAR / PROJECT SPECIFIC SPECIFICATIONS
- 3.4.4 WAYLEAVES, PERMISSIONS AND PERMITS
- 3.4.5 LOCAL PRODUCTION AND CONTENT
- 3.4.6 EMPLOYMENT OF SECURITY PERSONNEL
- 3.4.7 UNIVERSAL ACCESS

#### 3.4.1. TRADE NAMES OR PROPRIETARY PRODUCTS

Bid specifications may not make any reference to any particular trade mark, name, patent, design, type, specific origin or producer, unless there is no other sufficiently precise or intelligible way of describing the characteristics of the work, in which case such reference must be accompanied by the words "or equivalent".

#### TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS 'OR EQUIVALENT"

#### 3.4.2 APPLICABLE STANDARDISED SPECIFICATIONS

Although not bound in nor issued with this document, the following standardized specifications shall form part of the contract document and shall apply:

Section	Edition	Title
SANS 1200 A	1986	General
SANS 1200 AA	1986	General (Small works)
SANS 1200 C	1980	Site Clearance
SANS 1200 DB	1989	Earthworks (Pipe Trenches)
SANS 1200 GA	1983	Concrete (Small works)
SANS 1200 L	1983	Medium Pressure Pipelines
SANS 1200 LB	1983	Bedding (Pipes)
SANS 1200 LF	1982	Erf Connections (Water)
SANS 1200 MJ	1984	Segmented Paving
SANS 1200 MK	1983	Kerbing and channeling
SANS 1052 – 1	2012	Water Supply Installation for buildings

#### 3.4.3 PARTICULAR / PROJECT SPECIFIC SPECIFICATIONS

#### **PSA GENERAL**

#### PSA 1 MATERIALS (SANS 1200 A Clause 3)

#### PSA 1.1 Quality (SANS 1200 A Subclause 3.1)

#### Add the following:

All pipes, fittings and other apparatus shall either comply with the list of Accepted Water Installation Components issued by the Joint Acceptance Scheme for Water Installation Components (JASWIC) or carry the SABS mark. The mark on a pipe shall be visible from above after the pipe is laid.

#### PSA 2 CONSTRUCTION (SANS 1200 A Clause 5)

# PSA 2.1 Watching, Temporary Barricading and Lighting (SANS 1200 A Subclause 5.2)

The Contractor shall ensure that all roads adjacent to the site which may be affected by the works are kept in a safe condition for pedestrians and vehicular traffic.

Without limiting the Council Representative's right to request additional requirements in terms of the Specifications and the General Conditions of Contract, the following shall be regarded as the minimum requirements for security, temporary fencing and lighting:

# PSA 2.1.1 Security

The Contractor shall take every precaution to ensure safety and to protect the Works from theft and vandalism. The Contract shall be responsible for the safety and security of his personnel, materials on site and the Works in general at all times. The Contract shall therefore acquaint himself with the current situation in the area with regard to safety and security (liaising with the local police as necessary) and shall provide all security measures, including the employment of accredited security services, as deemed necessary to comply with the requirements under this clause on the Contract.

No pay item is included in the Schedule of Rates / Bill of Quantities to cover the cost of taking these precautions and the cost thereof is deemed to be included in the rates.

## PSA 2.1.2 Temporary Fencing of Excavations

The Contractor shall enclose all excavations with stout temporary orange barricade net fencing (2m). In addition, he shall erect delineators alongside the road, adjacent to all open excavations, at 5 m intervals, and shall securely fix one line of red-and-white plastic warning tape of an approved design along the top of the fence for its full length.

### PSA 2.3 SAFETY (SANS 1200 A Clause 5.7)

#### PSA 2.3.1 Occupational Health and Safety Act

The Contractor is to observe the provisions of the Occupational Health and Safety Act 85 of 1993. Working on underground pipelines presents hazardous conditions and the Contractor's attention is drawn to the Occupational Health and Safety Act - General Safety Regulations and in particular Regulation No. 5 – Work in Confined Spaces. The Contractor shall, in terms of the Occupational Health and Safety Act Construction Regulations 2014, address these hazards in his Health and Safety Plan.

The Contractor shall give notice to the Provincial Director, in terms of Clause 3 of the Occupational Health and Safety Act ,1993 Construction Regulations 2014, prior to the commencement of work on site.

All costs incurred by the Contractor in complying with this clause shall be deemed to be included in his rates and no separate payment shall be made in this regard.

#### **PS A 2.3.2 HEALTH AND SAFETY OBLIGATIONS**

The Tenderer must allow for all costs and expenses in connection with the compliance with the Occupational health and Safety Act No. 85 of 1993 and Construction regulations 2014 under the items below.

#### PS A 2.3.2.1 Health and Safety.....Unit: day.

The rate shall cover the costs for the provision and maintenance of health and safety regulations required in terms of Clause 5 (main contractor and subcontractor) of the Construction regulations (2014) of the Occupational Health and Safety Act. and the health and safety specifications (See C3.5 Management - Particular Specification H: Health and Safety Specification) for the duration of the contract. No other payments will be made in respect of the above-mentioned, and the Tenderer shall ensure that sufficient provision is made to cover these costs.

#### PSA 2.3.3 Construction hazards

Some of the existing pipelines to be repaired are of asbestos cement. Working with asbestos cement can present hazardous conditions and the Asbestos Regulation 2001 shall apply.

The safety of the public and all workers and the provision of all necessary safety equipment for the protection of workmen shall be the Contractor's sole responsibility.

All costs incurred by the Contractor in complying with this clause shall be deemed to be included in his rates and no separate payment shall be made in this regard.

#### PSA 2.4 Interruption of service (SABS 1200 A Clause 5.8)

The maximum time permitted for consumers to be without water services is six hours. Notice must be given to affected residents 24 hours prior to any planned shutdown.

The Contractor shall provide a 24-hour standby service for the maintenance and repair of any section of work covered by the works contract. He shall provide the Council Representative with an effective means of contacting the standby staff on a 24-hour basis. All repairs necessary to maintain services to residents shall be carried out without delay.

All costs incurred by the Contractor in complying with this clause shall be deemed to be included in his rates and no separate payment shall be made in this regard.

#### PSA 3. TESTING (SANS 1200 A Clause 7)

#### PSA 3.1 Checking (SANS 1200 ASubclause 7.1.1)

Every completed layer or section of the Works shall be subject to check testing by the Contractor, at his own cost. Once the Contractor has satisfied himself with the standard of his works, he shall provide the Project Manager with the results of his check testing indicating that the work is to specification. In order to minimise delays due to testing, the Contractor shall give the Project Manager at least 24 hours' notice of when any portion of the works will be completed to his satisfaction so that the Project Manager can arrange for his acceptance control testing to be done.

Failure by the Contractor to notify the Project Manager or to provide the required information or, where specified, to perform the required test, will be grounds to exempt the Employer from payment for the associated work and for all subsequent work which would be affected by the failure of the work to be tested.

The Project Manager will be under no obligation to the Contractor to perform acceptance tests. If the Project Manager elects not to perform a particular test after notification by the Contractor, he will issue the Contractor with a written instruction to proceed with the relevant works without the acceptance test being performed.

Nothing contained in this Clause will relieve the Contractor of his responsibilities under the specification or in any way limit the tests which the Project Manager may call for or perform in terms of the specification.

# PSA 3.2 Standard of Finished Work not to Specification (SANS 1200A Subclause 7.1.2)

In addition to the provisions of Subclause 7.1.2, the costs of check testing by the Project Manager including tests carried out by commercial laboratories after remedial work by the Contractor shall be borne by the Contractor.

## PSA 3.3 Approved Laboratories (SANS 1200ASubclause 7.2)

If required, the Project Manager will employ the services of a commercial laboratory in order to carry out acceptance testing. All acceptance testing carried out by a commercial laboratory shall be paid for by the Contractor. The costs of such tests which meet the specification requirements will be reimbursed to the Contractor in the monthly payment certificate.

The Contractor shall make due allowance for testing procedures in his construction programme.

#### PSAA RETURN OF MATERIALS (SANS 1200 A clause 5)

Existing meters shall remain the property of the Council and shall be returned by the Contractor to the Municipal Depot. <u>Care taken of meters</u> The Contractor shall obtain the signatures of the appropriate Depot Superintendent, acknowledging receipt. All the material must be itemised i.e. type, size, diameter, make, number, meter number, meter reading, stand number etc. from which the meter has been removed. The Contractor shall allow in his rate for the return of such material to the Engineer's Depot

# PSC SITE CLEARANCE

# PSC 1 SCOPE (SANS 1200 C clause 1)

The site is situated in a developed urban environment. The contract will require the demolition and removal or storage of existing materials on the site prior to commencement of the works.

#### PSC 2 MATERIALS (SANS 1200 C Clause 3)

#### PSC 2.1 Disposal of Material (SANS 1200C Subclause 3.1)

No material shall be spoiled on the site. The Contractor shall make his own arrangements for the provision of a suitable spoil area off the site.

The Contractor will be held solely responsible for observing the by-laws and regulations of the relevant local authorities. The Contractor shall indemnify the Employer against all claims for damages arising from this source.

All costs incurred by the Contractor in complying with this clause shall be deemed to be included in his rates and no separate payment shall be made in this regard.

#### PSC 3 CONSTRUCTION (SANS 1200C Clause 5)

# PSC 3.1 Removal and storage of Kerbing, Channeling, and Edging, Paving and Grassing (SANS 1200C Subclause 5.1 to 5.7)

Where indicated by the Council Representative, the Contractor shall remove existing kerbing, channeling, and edging, paving and grass sods and store all materials such kerbing, channeling and edging for re-use and reinstatement on the site of the works.

Where existing kerbs are to be removed and the existing channels are to remain, the Contractor shall carefully remove the kerbs without disturbing the channels. Any channels which are disturbed or damaged during this operation shall be replaced at the Contractor's expense.

All costs incurred by the Contractor in complying with this clause shall be deemed to be included in his rates and no separate payment shall be made in this regard.

#### **PSDB EARTHWORKS (PIPE TRENCHES)**

#### PSDB 1 MATERIALS FOR REINSTATEMENT OF ROADS (SANS 1200DB Subclause 3.6)

#### PSDB 1.1 Sub base and Base (SANS 1200DB Subclause 3.6.1)

Existing road layers shall be reinstated with 150mm Type G5 gravel sub base (compacted to 95% modified AASHTO density) and Type G4 base (compacted to 98% Modified AASHTO density) with 150mm minimum thick layer after compaction.

The base layer shall be benched so that the layer overlaps the underlying sub base layer by at least 150 mm on either side of the trench excavation.

#### PSDB 1.2 Asphalt Surfacing (SANS 1200DBSubclause 3.6.4)

The surfacing shall consist of a medium continuously graded asphalt surfacing as specified in SABS 1200 MH Asphalt Base and Surfacing of the specifications. The edges of the surfacing / seal shall overlap the base by at least 150 mm on both sides of the trench excavation. A tack coat shall be applied to the finished surface of the base course layer.

#### PSDB 2 CONSTRUCTION (SANS 1200DB Clause 5)

#### PSDB 2.1 General (SANS 1200DB Subclause 5.1)

Trench excavation for new pipelines will be generally by machine after existing services have been exposed by hand.

The trench excavation shall be such that the base width includes sufficient working space.

#### PSDB 2.2 Excavation (SANS 1200DB Subclause 5.4)

All excavated material shall be placed in such a way and in such positions as not to endanger or interfere with the works, pedestrians, traffic or property and the Council Representative may order the Contractor to remove any material that is considered liable to endanger or interfere with the works, pedestrians, property or traffic and to place such material in another position as indicated by the Council Representative.

# PSDB 2.3 Control of Water (SANS 1200DB Subclause 4.2)

It can be expected that the existing pipelines may lie below the water table. These conditions will necessitate that the Contractor will have to adopt appropriate techniques as set out in subclause 4.2 to control the water.

The Contractor's attention is drawn to subclause 5.1.2 in connection with the control of water.

#### PSDB 2.4 Trench Bottom (SANS 1200DB Subclause 5.5)

Where waterlogged trench bottom conditions exist after the Contractor has, in the Council Representative's opinion, carried out all possible dewatering operations, the Council Representative may order that unsuitable material be

excavated and replaced with crushed stone. A layer of 19 mm crushed stone shall be placed over the full width of the trench bottom, in increments of 200 mm thick or such other thickness as may be ordered by the Council Representative. The crushed stone shall be placed and rammed into the trench bottom to create a firm platform and shall be finished off to the required trench formation level.

As an alternative, the Council Representative may order that a suitable selected fill material, obtained from the site, be placed in the trench bottom to the same dimensions as specified for the crushed stone. The selected fill material shall be compacted to the specified density for trench bottoms.

Where the Contractor's method of working results in quagmire conditions in the trench bottom, the Contractor shall excavate and stabilize the trench at his own cost.

### PSDB 3 DISPOSAL OF SURPLUS MATERIAL (SANS 1200DBSubclause 5.6.3 and 5.6.4)

#### **PSDB 3.1 Description**

Surplus excavated material shall be taken off the Site and disposed of at a site arranged by the Contractor, and approved by the Council Representative. Payment for overhaul will be made over 1km free haul.

# PSDB 4 COMPACTION (SANS 1200DBSubclause 5.7)

# PSDB 4.1 Areas Subject to Traffic Loads (SANS 1200DB Subclause 5.7.2)

All trenches backfilled under this contract shall be backfilled with sand or cohesive material placed in layers a maximum of 200 mm thick and compacted to 100 percent Modified AASHTO maximum density.

#### PSDB 5 REINSTATEMENT OF SURFACES (SANS 1200DB Subclause 5.9.5)

All inclusive of the following layers:

#### Roads:

Asphalt surfacing 40mm thick ( CCC medium/ COLTO medium continuously gradded to 93% Rice) Prime coat (Cut-back bitumen type MC-30) at a nominal application rate of 0,7 l/m<sup>2</sup> Tack coat at a nomimal application rate of 0,2 l of residual bitumen per m<sup>2</sup> G4 Base in 150 mm thick layers to 98% Mod AASHTO, to roadways G5 Subbase 150mm thick thick layers to 95 % Mod AASHTO, to roadways

Sidewalks:

100 mm thick G5 subbase to 95% Mod AASHTO on 150mm thick G7 subgrade to 93% Mod AASHTO to 100% for sand

Existing paving to side walks and footways

30mm thick premix to sidewalks (paving mix/ township mix)

Concrete: 25 MPa strength to 150, 200 and 250mm thickness

<u>Brick Paving and Interlocking</u>: To match existing or similar approved by the Engineer. Minimum compressive strength of 25MPa.

Grass and lawns: The affected areas shall be re-instated with sods of similar grass as approved by the Engineer.

<u>Kerb and channel:</u> Precast kerbs and channels shall comply with the requirements of SABS 927 for quality and shape, shall be of the same type and figure as the existing and shall be of nominal length not greater than 1 m. Short lengths that are required as closures shall be specially cast or saw-cut to the required length.

The tendered rate shall be for reinstating the road layers as well as for the cost of cutting back of existing layers to provide stepped joints. The benching of each layer shall be at least 150mm and may be as wide as 200mm in some areas as per Employers Agent instruction. The rate shall also include material, labour and equipment for cutting back the damaged premix layer to form a neat straight line. The rate shall also include the removing of the old premix by hand and replacing it with new premix.

The area and volume will be computed from the authorised dimensions measured for each layer after compaction. Payment for finishing will be additional to that for excavation covered by Clause 8.3.2.

The tendered rate shall cover the costs involved as specified in SANS Clause 8.3.6.1.

# PSDB 6 DETECTION, LOCATION AND EXPOSURE OF EXISTING SERVICES (SANS 1200DB clause 5.1.4)

The Contractor shall ascertain the presence and position of all services likely to be damaged or interfered with by his activities. For this purpose, he shall obtain from the Council Representative up-to-date plans showing the position of services in the area where he intends to work.

As the location of services can often not be reliably determined from such plans, he shall further determine the exact position of such services by means of suitable detecting equipment and afterwards by careful hand excavation, where necessary, in order to expose the service at the positions of possible interference by his activities. The latter procedure shall also be followed in respect of any service not shown on plans, but believed to be present.

All such services, the positions of which have been located at the critical points, shall be designated as "known" services and their positions shall be indicated on a separate set of Drawings by the Contractor, a copy of which shall be furnished to the Council Representative.

While he is in occupation of the Site, the Contractor shall be liable for all damage caused by him to known services as well as for consequential damage arising therefrom, whether caused directly by his operations or by lack of proper protection.

# PSDB 6.1 Protection of Existing Services (SANS 1200DB clause 5.1.4)

The Contractor shall exercise all the necessary care to prevent damage to known services during construction operations. Major excavating equipment and other plant shall not be operated in dangerously close proximity to these services. Where necessary, excavation in close proximity to these services shall be carefully carried out by means of suitable hand tools, excluding picks wherever their use could cause damage to the services. No additional payment will apply to such more difficult work.

Services left exposed shall be suitably protected from damage and/or theft.

#### PSDB 6.2 Liability for Damage and Insurance (SANS 1200DB clause 5.10)

The Contractor's attention is drawn to the relevant clauses of the General Conditions of Contract and Contract Specific Data regarding liability for damage to the Works, or property, or injury to persons arising from the construction of the Works. His attention is also drawn to the General Conditions of Contract regarding insurance to be effected by the Contractor. Special attention is drawn to the exclusions in this insurance policy and particularly to the exclusions regarding consequential damage.

#### PSDB 7 MEASUREMENT AND PAYMENT (SANS 1200DB Subclause 8.3.6)

#### PSDB 7.1 Control of Water (SANS 1200A clause 8.4.2)

No item other than pay item 8.4.2.2 SABS 1200 A, in terms of Subclause 5.5 SABS 1200 A, has been scheduled for dealing with water and the Contractor must allow for it in his rates.

#### **PSLB BEDDING (PIPES)**

#### PSLB 1 MATERIALS (SANS 1200 LB Clause 3)

#### PSLB 1.1 SELECTED GRANULAR MATERIAL (SANS 1200LB Subclause 3.1)

Selected granular material shall be of a granular, non-plastic nature and shall conform to the following grading:

% passing 4,750 mm sieve 95% min 0,425 mm sieve 50% min 0,075 mm sieve 10% max

and shall have a compatibility factor (as determined by the test given in Section LB, Part 3 of SABS 0120) not exceeding 0,4.

# PSLB 2 CLASS OF BEDDING (SANS 1200LB Subclause 3.3)

Water mains, storm water and sewer pipes shall all be laid on Class B bedding, unless otherwise shown on the Drawings, or instructed by the Council Representative.

#### PSLB 2.1 Bedding Materials (SANS 1200LB Subclause 3.4)

Suitable selected bedding material will be available from the trench excavations along the route. Should additional selected granular material be required, it shall be obtained from other excavations on the site, or imported from commercial source.

PSLB 2.2 Contractor to Excavate Selectively for Bedding Materials (SANS 1200LB Subclause 3.4.1)

Notwithstanding the requirements of Subclause 3.7 of SABS 1200 DB and Subclause 3.4.1 of SABS 1200 LB regarding the use of selective methods of excavating, the Contractor shall use selective methods of excavating and shall provide and use plant that will enable him to avoid burying or contaminating material that is suitable and is required for bedding.

#### PSLB 3 CONSTRUCTION (SANS 1200LB Clause 5)

#### PSLB 3.1 Compacting (SANS 1200 LB Subclause 5.1.4)

The degree of compaction of the bedding shall be 100% of Modified AASHTO in sand and not less than 93% in the case of non-sand materials.

#### PSL MEDIUM-PRESSURE PIPELINES

#### PSL 1 The installation of Valves on operational major water pipelines (SANS 1200L clause 5)

The Contractor shall execute the work in existing valve chambers on existing operational bulk water pipelines or otherwise as requested by the Project Manager.

The Contractor shall arrange 2 days in advance with the Project Manager for isolating of the section of water pipeline on which the valve replacement is to be carried out to allow the Project Manager to inform the affected communities of the possible interruption of water supply.

The Contractor shall keep de-watering plant in operation to ensure the effective installation of the isolation valve, all other required equipment and steel pipe specials.

The Contractor shall provide and operate all de-watering plant in order to pump out all water from the valve chamber and the excess water remaining in the pipeline after the pipeline section has been isolated. The valve chamber shall remain completely free of water while the installation of the new isolation valve is in process.

The Contractor shall pump out the remaining water from the pipeline from the nearest scour valve or by loosening the flange bolts and the VJ Coupling bolts.

The Contractor shall provide lifting gear and fix strapping to the valve before the flange bolts and VJ coupling bolts are removed.

The VJ coupling shall thereafter be moved away from the joint to expose the joint between the pipe and the flange adapter.

The Contractor will make available high pressure water jet blasters to jet blast rust sealing and caulking from the exposed joint.

The valve and flange adapter shall thereafter be loosened with care ensuring that the remaining flange and pipe end in the valve chamber is not damaged under any circumstances. The Contractor shall avoid risky or destructive working methods and ensure that only limited force is applied. The use of grinders or cutting torches on any joint or against any flange shall be avoided at all times.

If the Contractor still experience difficulty to remove a valve from its position in the valve chamber after the above actions. The Contractors shall call the Project Manager for a site inspection and request a site instruction to cut the pipe section of the flange adapter with a cutting torch to enable him to remove the valve. The Contractor shall deliver both portions of the cut flange adapter to a reputed steel pipe manufacturer in order to manufacture a new flange adapter to the same specification. The supply of the new flange adapter will be an extra over item and the payment will be dealt with separately to this tender.

The Contractor must then fit the replacement valve and flange adapter in the existing valve chamber.

Before replacing and repairing the exterior of the valve chamber the interior shall be reinstated to a serviceable condition.

The Contractor must ensure whenever the site is not occupied by his personnel that the valve chamber is covered properly in order to avoid harm to children or pedestrians as well as to avoid rubble and refuse being dumped in the chamber.

#### PSLF ERF CONNECTIONS (WATER)

#### PSLF 1 House Connections (SANS 1200LF clause 5.2)

- a) House connections shall be installed as indicated on Drawing W4 (A&B) on page 201 & 202 of this tender document.
- b) Saddles shall be ductile iron or cast iron, secured with stainless steel bolts and nuts, and wrapped in "Denso" tape or similar approved.
- c) Ferrules are not required.
- d) The ends of the valves shall be flanged.
- e) The spindles shall be non-rising.
- f) The spindles shall be fitted with caps unless otherwise specified in the Schedule.
- g) The direction of closing shall be anti-clockwise.
- h) The dimensions of the flanges shall conform to the values given in either Table A of this Specification, for working pressures up to 1.2 MPa, or Table B of this Specification, for working pressures up to 2.5 MPa, and shall be drilled off centre-line.
- i) The design of all valves shall be so that they may be mounted in any position.
- j) Valves for working pressures above 1.2 MPa shall be fitted with ball-bearing spindle thrust collars.

### PSLF 2 RSV Gate Valves (SANS 1200LF clause 3.5)

The valve shall comply with the requirements of SANS 664: 1989 (as amended Class 16 Type B, for working pressure up to 1.2 MPa and with requirements of SABS 191:1972 (as amended) Class 25 Type B, for working pressures up to 2.5 MPa together with the following additional requirements:

Valves to comply with the below specifications:

- All valves shall be SANS 664 and be approved by the Engineer.
- Valves to be of the resilient seal type.
- Valves shall be clockwise opening / left hand closing.
- Direction of opening to be clearly marked on valve body or spindle cap.
- Valves shall be heavy duty; class 16 minimum.
- Valves shall be fitted with cast iron cap tops, secured with retaining bolts.
- Only valves supplied with minimum thickness of 250 micron Copon KSIR 88 epoxy paint applied to all internal and external surfaces after it has been thoroughly cleaned by grit blastings to SA 2 ½ finish in compliance with the requirements of SIS 05 09 00 or valves with similar approved coatings will be accepted.
- Valve bell tobies shall be ductile iron conforming to EN 124. The covers are to be secured to the frame with galvanized chain or cable.
- Valve covers shall be blue and shall protrude about 25 mmm above ground level in non-paved area.

# PSLF 3 Resilient seal valves (SANS 1200LF clause 3.5)

k) The materials for construction shall be

Body, bonnet, gate	Spheroidal graphite iron and gland to SABS 936 SG38
Spindle	Stainless steel to BS 970 Part 4: 410S21 or 302S25
Spindle nut	Aluminium bronze
Corrosion protection	Internal and external sintered powder epoxy coating in accordance with SABS 1217, Type

# PSLF 4 Material (SANS 1200LF clause 3)

Pipe work to be uPVC Class 12 and will be measured and paid for in short lengths for different pipe sizes under SABS 1200 L: Pipe work in the Schedule of Quantities.

All repair couplings to be ductile iron with stainless steel bolts and nuts Grade 316 wrapped in denso-tape or similar approved.

All pipes, fittings and accessories shall be class 16, in compliance to the latest edition of the relevant SABS OR ISO specifications and JASWIC approval.

All new replacement valves supplied for valves and hydrants shall comply with the particular specification PSLF CCT Specification for Gate Valves earlier in this section.

#### PSLF 5 Strainers

Bulk in-strainers serve as a proctective barrier for all bulk water meters and must be included in every installation. Ystrainers shall only be used in installations where it is not possible to use inline strainers, contractor(s) to seek approval from Project Manager or his representative before.

in-line strainers to be used shall comply with the following table.

Bore size	Material	End to end connection	Specification	Length
50mm	Cast iron		Horizontal Axis. Includes Stainless Steel Mesh (with hole diameter of no more than 3mm) Element and Stainless Steel Bolts. Fusion bond coated, WPDF Multi Drilled Table D and Table 16; STANDARD: SABS Certified, SANS 1808-58 and bearing the SABS mark scheme where applicable.	270mm
80mm				350mm
100mm				350mm
150mm		n Flanged		450mm
200mm				350mm
250mm				450mm
300mm				500mm

y-strainers to be used shall comply with the following table.

Bore size	Material	End to end connection	Specification	Length
50mm	Cast iron	Horizontal Axis. Includes Stainless Steel Mesh	230mm	
80mm			(with hole diameter of no more than 3mm) Element and Stainless Steel Bolts. Fusion bond coated, WPDF Multi Drilled Table D and Table 16; STANDARD: SABS Certified, SANS 1808-58 and bearing the SABS mark scheme where applicable.	310mm
100mm				350mm
150mm		n Flanged		480mm
200mm				600mm
250mm				730mm
300mm				850mm

# PSLF 6 Remove below ground meter and box and set above ground (SANS 1200LF clause 3.5.3)

The scheduled price for the removal of the below ground meter and meter box and set above ground must include the removal of the existing meter and meter box and the fittings of couplings to install the meter above ground. The site must be back filled, the surface must be reinstated, removal of scrap material, removal and disposal of spoil, the clearing of site and any incidentals necessary for the completion of the work.

#### PSLF 7 Installation of new meter and meter box (SANS 1200LF clause 5.5.1)

Installing a new meter box with meter, or the removal of the existing meter from the existing meter box and installing the meter into the new meter box, connecting the communication pipe, backfilling, reinstating the surface, removal of scrap material, removing and disposal of spoil, the clearing of site and any incidentals necessary for the completion of the work.

The replacement length shall be 1.5 meters on either side of the meter. The total length of pipe to be removed and replaced including the meter box shall be 3 (three) meters measured from cut to cut. The type of pipe up to and including 75 mm will be of H.D.P.E. and over 75 mm will be uPVC or steel.

a) The replacement of the meter box shall be accordance with Drawing on pages 207 & 2008

b) The existing meter box must be demolished, and the existing communication pipe must be cut-out 1.5 meters on either side of the meter with a total cut-out length of 3 meters.

c) The existing meter must be removed from the old meter box and reinstalled into the new meter box. A new meter box with meter can only be installed with the written permission of the Project Manager.

#### PSLF 8 Remove and replace section of asbestos pipe (SANS 1200LF clause 5.2.2)

The scheduled price for the replacement of a length of asbestos cement pipe shall include the excavation, removal of pipe, fitting of new pipe, fixing of couplings, backfilling, reinstatement of the surface, removal of scrap, removal and disposal of surplus spoil, clearing of site and any incidentals necessary for the completion of the work.

Payment will be on the measured length of pipe installed, related to the nominal pipe diameter of the pipe.

# PSLF 9 Installation of water mains: Open trench, excavation, laying, jointing and connecting to existing pipe, including backfilling and compaction (SANS 1200LF clause 5)

The lineal rate for excavations must include for a maximum depth, laying of pipe, jointing, connecting to existing pipe line will be to at least this depth for tie-ins, etc. including and making good the surrounding surface area, and any incidentals required to complete the work.

Payment for the extension of water mains shall be the length measured, related to the nominal diameter of the pipe.

#### PSLF 10 Corrosion protection (SANS 1200LF clause 3.1)

The Contractor shall reinstate corrosion protection to the standard of new construction after the installation water meter, flanges and/or VJ Couplings.

Steel and cast iron specials shall be protected by covering in "Denso" grease, voids to be filled with "Denso" strip all wrapped in "Denso" tape and covered with SABS approved polyethylene sheeting, Type F, 250-micron thickness.

All bolts, nuts and washers shall be new and heavy duty galvanised according to SABS 761

#### PSLF 11 Removal and replacement of valves (AC pipeline) (SANS 1200LF clause 5.7.2)

The Contractor will be required to cut-out and replace defective valves.

The schedule price for the replacement of valves, and shall cover the cost of breaking out the valve box, excavation to expose the valve, two pipe cuts, removal of valve, installation of a new valve, trim pipe ends and fit two couplings, construct valve box/chamber including backfill, reinstatement of surface, removal and disposal of surplus spoil and any incidentals required to complete the work.

#### PSLF 12 Installation of new valve (Steel pipeline) (SANS 1200LF clause 5.5)

The schedule price for the installation of a valve in an existing pipe line must include the excavation, cutting into existing pipe, installation of the valve, welding of the joints, fitting of the couplings, building the chamber and making good the surrounding surface area and any incidentals required to complete the work.

# PSLF 13 Installation of new valve (AC pipeline) (SANS 1200LF clause 5.5)

The schedule price for the installation of a valve in an existing pipe line must include the excavation, cutting into existing pipe, installation of the valve, trimming of pipe ends and the fitting of couplings, building the box in accordance with Drawing Number W4, and making good the surrounding surface area, and any incidentals required to complete the work.

#### PSLF 14 Construction of valve boxes (SANS1200LF clause 3.5)

In addition to the existing clauses the following shall apply: On completion and testing of the work the lower part of each valve body must be surrounded by a properly consolidated granular fill.

Each chamber is to be closed with the appropriate cast iron surface box or manhole cover as specified, set in cement mortar to the correct line and slope of the surrounding surface, except where otherwise indicated.

#### PSLF 15 Cut – out section of steel pipe (SANS 1200LF clause 5)

The scheduled rates must include the excavation, two pipe cuts, removing the section of pipe, replace the section with new pipe, weld the two joints, fit two couplings, backfilling, reinstating the surface, remove surplus soil, remove scrap material, the clearing of site and any incidentals necessary for the completion of the work.

Payment will be made on the measured distance between the two pipe cuts, related to the nominal diameter of the pipe

#### PSLF 16 Remove and replace section of asbestos pipe SANS 1200LF clause 5)

The scheduled price for the replacement of a length of asbestos cement pipe shall include the excavation, removal of pipe, fitting of new pipe, fixing of couplings, backfilling, reinstatement of the surface, removal of scrap, removal and disposal of surplus spoil, clearing of site and any incidentals necessary for the completion of the work. Payment will be on the measured length of pipe installed, related to the nominal pipe diameter of the pipe.

### PSLF 17 Repack gland and operate valve (SANS 1200 LF Clause 5.7.2)

The price tendered and the price paid for each valve operated and gland repacked during normal working hours 08:00 hours and 16:30 hours Monday to Friday inclusive, shall include full compensation for transport, supervision, labour, plant and equipment and all incidentals necessary for the completion of the work.

### **PSMK KERBING AND CHANNELLING**

### PSMK 1 MATERIAL (SANS 1200 MK Clause 3)

### PSMK 1.1 Bedding Material ((SANS 1200 MK Subclause 3.9)

Replace Subclause 3.9 with the following:

Bedding and backing for precast kerbs and channels shall be 15MPa / 13 mm concrete to SABS 1200 GA, to the dimensions indicated on the Drawings.

# PSMK 1.2 Cast-In-Situ Concrete ((SANS 1200 MK Subclause 3.3 and 5.11)

Cast-in-situ concrete for curves less than 1 m and for transitions shall be 25 MPa / 19 mm.

#### PSMK 1.3 Nominal Lengths of Precast Units (SANS 1200MK subclause 3.2.2)

Units laid to a radius of 1,0 m or greater shall be precast and shall have the following nominal lengths

Radius in Plan	Nominal Length
1,0 m to 4,0 m	0,3 m
4.0 m to 20.0 m	0.5m
Greater than 20	1,0 m
m and straight	

#### PSMK 1.4 Expansion Joints in Kerbs and Channels (SANS 1200 MK subclause 3.5)

Provision shall be made in kerbs and channels for expansion joints of width at least 12 mm at intervals not exceeding 20 m. The concrete surfaces shall be primed and the joints filled with an approved sealant. Sealant for expansion joints in kerbing shall comply with the relevant requirements of SABS 110. Sealant for expansion joints in channels shall comply with the relevant requirements of BS 2499.

# PSMK 2 CONSTRUCTION (SANS 1200 MK Clause 5)

#### PSMK 2.1 Re-use of salvaged kerbs, channeling and edging (SANS 1200 MK clause 5.7)

Where instructed by the Council Representative, the Contractor shall make re-use of salvaged kerbs, channeling and edgings.

A payment item has been allowed for this work. See item 8.3.6.1 (c) under Section L: Medium Pressure Pipelines as well as PSDB 7.2: Reinstatement of Surfaces.

# 3.4.4 WAYLEAVES, PERMISSIONS AND PERMITS

The Contractor shall be responsible for obtaining all of the necessary wayleaves, permissions or permits applicable to working near any existing services or other infrastructure on Site, and shall ensure that any wayleaves, permissions or permits obtained by the Employer's Agent prior to the award of the contract are transferred into the Contractor's name.

The Contractor shall abide by any conditions imposed by such wayleaves, permissions or permits.

The Contractor shall ensure that all wayleaves, permissions and permits are kept on site and are available for inspection by the relevant service authorities on demand.

The Contractor shall also ensure that any wayleaves in respect of electricity services are renewed timeously every three months.

### 3.4.5 LOCAL PRODUCTION AND CONTENT

The Contractor will be required to comply with all requirements as stated in this document.

#### 3.4.6 EMPLOYMENT OF SECURITY PERSONNEL

All security staff employed by the contractor on behalf of the CCT or at any CCT property must be registered with Private Security Industry Regulatory Authority (PSiRA). Proof of such registration must be made available to the employer's agent upon request.

#### 3.4.7 UNIVERSAL ACCESS

In pursuit of becoming a fully accessible city, the City of Cape Town expects all Consultants and Service Providers to design and construct to SANS Standards for accessible Design, and any relevant City of Cape Town documents as may be relevant, and to exhibit a commitment to employing Universal Design Principles in their design, construction, service and product delivery of construction projects. This applies to all projects whether new, temporary, upgrades or rehabilitation works.

The contractor will engage with project representatives and the CCT's Universal Accessibility Department on how Universal Design Principles will enhance accessibility, within this project, that meets a variety of needs and creates a city that is accessible to everyone.

#### **CITY OF CAPE TOWN**

## WATER AND WASTE: WATER AND SANITATION

# CONTRACT NO. 95Q/2020/21

# TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

# C3.5 Management

# CONTENTS

- 3.5.1. FORMS FOR CONTRACT ADMINISTRATION
- 3.5.2 PARTICIPATION OF TARGETED LABOUR
- 3.5.3. COMMUNITY LIAISON OFFICER
- 3.5.4. PARTICIPATION OF TARGETED ENTERPRISES
- 3.5.5. ENVIRONMENTAL MANAGEMENT PROGRAMME
- 3.5.6. HEALTH AND SAFETY

#### 3.5.1 FORMS FOR CONTRACT ADMINISTRATION

The Contractor shall complete, sign and submit with each monthly statement for payment in respect of each Works Project contract, the following updated returns (the format of which are attached in C3.6 Annexes):

- a) Monthly Project Labour Report (Annex 1)
- b) B-BBEE Sub-Contract Expenditure Report (Annex 2)
- c) Joint Venture Expenditure Report (Annex 3)
- d) Targeted Labour Contract Participation Expenditure Report (Annex 4)
- e) Targeted Enterprises Contract Participation Expenditure Report (Annex 5)

The Monthly Project Labour Report must include details of <u>all</u> labour (including that of sub-contractors) that are South African citizens earning less than R450.00 per day, as adjusted from time to time (excluding any benefits), who are employed on a temporary or contract basis on this contract in the month in question.

In addition to the Monthly Project Labour Report the Contractor shall simultaneously furnish the Employer's Agent with copies of the signed employment contracts entered into with such labour, together with certified copies of identification documents, proof of attendance in the form of attendance register or timesheets, as well as evidence of payments to such labour in the form of copies of payslips or payroll runs. If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it and proof of such acknowledgement shall be furnished to the Employer's Agent.

The Monthly Project Labour Reports shall be completed and submitted in accordance with the instructions therein and copies of all submitted documents must be kept on site be made available to the employer's agent upon request.

The **B-BBEE Sub-Contract Expenditure Report** is required for monitoring the prime contactor'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.

The Targeted Labour Contract Participation Expenditure Report is required for monitoring the contractor's compliance for achieving the specified minimum targeted labour contract participation goal (CPG<sub>L</sub>) and, if applicable, for calculating any penalty in terms thereof.

The Targeted Enterprises Contract Participation Expenditure Report (if applicable) is required for monitoring the contractor's compliance for achieving the specified minimum targeted enterprises contract participation goal (CPG<sub>E</sub>) and, if applicable, for calculating any penalty in terms thereof.

The Expenditure Reports shall be verified by the Employer's Agent/Employer's Agent's Representative.

In respect of Annexes 2 and 3, 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** in Part T2.2 Returnable Schedules. In the case of joint ventures (Annex 3), 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.

# 3.5.2 PARTICIPATION OF TARGETED LABOUR

#### 3.5.2.1 Minimum targeted labour contract participation goal

In support of the National Department of Public Works' Expanded Public Works Programme which is aimed at alleviating poverty through the creation of temporary employment opportunities using labour intensive methodologies and practices where possible, the Employer is seeking to increase the intensity of labour, as appropriate, in all of its infrastructure sector projects.

It is a requirement of this term tender contract, therefore, that the work be executed in such a manner so as to maximise the use of labour intensive construction methods in order to provide low and semi-skilled temporary employment opportunities.

To this end, a minimum targeted labour contract participation goal is specified below, which shall be achieved by the Contractor in the performance of each Works Project contract, failing which, penalties as described will be applied. The Contractor is required to provide all skills training <u>where necessary</u>, so as to ensure that a minimum level of competence is achieved and maintained, such that the various activities are carried out safely and to the required standard. The cost of training shall be included in the rates for the various work activities.

The specified minimum targeted labour contract participation goal (CPG <sub>L</sub> ) is	5
The specified minimum targeted labour contract participation goal (or OL) is	-

The minimum  $CPG_L$  is such that the Contractor will have to carry out some of the work that would normally have been undertaken using mechanised construction methods, by using labour intensive construction methods instead. It is left to the discretion of the Contractor to identify suitable work activities for the intensification of labour. The Contractor shall, within 5 working days of being requested in writing by the Employer's Agent to do so, submit details of his/her plan to achieve the minimum  $CPG_L$  in the Works Project. If, due to the selection of items and quantities in any individual Works Project, it is not possible for the Contractor to achieve the specified minimum  $CPG_L$  on that particular Works Project, then the Employer's Agent, at his/her sole discretion, may reduce such minimum  $CPG_L$  upon motivation by the Contractor.

#### 3.5.2.2 Definitions

For the purposes of the requirements in respect of the participation of targeted labour, the following definitions shall apply:

"Target area" means the geographical area described in the Works Project contract document.

**"Targeted labour contract participation goal (CPG**L)" means the sum of the wages (excluding any benefits), for which the Contractor, or any of his/her sub-contractors contracts targeted labour in the performance of the contract, expressed as a percentage of the value of the contract.

"Targeted labour" means low and semi-skilled individuals, whose wages (excluding any benefits) do not exceed the threshold value, who reside in the target area, that are employed by the Contractor, or any of his/her subcontractors, in the performance of the contract.

**"Threshold value**" is R450.00 per day as adjusted from time to time (excluding any benefits). The threshold value is not to be confused with any industry sector minimum wage determined in accordance with the Basic Conditions of Employment Act, 75 of 1977.

"Value of the contract" means the Works Project contract sum (accepted contract amount) less provisional sums, contingencies and VAT.

#### 3.5.2.3 The selection and recruitment of targeted labour

Where targeted labour is to be drawn from specific local communities (defined in terms of the target area), such labour shall be identified using the relevant Sub-Council Job-Seekers Database. The Contractor shall request, via a Community Liaison Officer (if required in terms of the contract), a list of suitable candidates from the database, from which the Contractor shall make his/her final selection. The contractor shall enter into written contracts of temporary employment with all targeted labour.

Any difficulty experienced by the Contractor in identifying candidates though the Job-Seekers Database, or as regards any matter relating to the employment of targeted labour, shall be immediately referred to the Employer's Agent.

%

#### 3.5.2.4 Contract participation goal credits

Credits towards the achieving the minimum CPG<sub>L</sub> shall be granted by converting the total monetary value of wages paid to targeted labour (including that of sub-contractors) to a percentage of the value of the contract. No credits shall be accorded should the contractor/sub-contractor fail to enter into written contracts with the targeted labour. Furthermore, no credits shall be accorded in respect of targeted labour employed on work in respect of provisional sums or prime cost items. Such labour shall nevertheless be recorded on the Monthly Project Labour Report which is required to be furnished by the Contractor.

# 3.5.2.5 Training of targeted labour

The Contractor is required to provide all informal (on-the-job) skills training so as to ensure that a minimum level of competence is achieved and maintained, such that the various activities are carried out safely and to the required standard. The cost of informal training shall be included in the rates for the various work activities.

### 3.5.2.6 Penalties

The financial penalty to be applied for failing to meet the specified minimum targeted labour contract participation goal in the performance of the contract (unless proven to be beyond the control of the Contractor), is as follows:

Penalty = (CPGL<sup>S</sup> - CPGL<sup>A</sup>) x P\*
 Where CPGL<sup>S</sup> = the specified minimum targeted labour contract participation goal (expressed as a percentage).
 CPGL<sup>A</sup> = the targeted labour contract participation goal achieved (expressed as a percentage).
 P\* = the value of the contract

### 3.5.3 COMMUNITY LIAISON OFFICER

Certain Works Projects may require a Community Liaison Officer (CLO) to be appointed by the Contractor. The primary functions of the CLO shall be to assist the Contractor with the selection and recruitment of targeted labour, to represent the local community in matters concerning the use of targeted labour (and/or enterprises) on the works, and to assist with and facilitate communication between the Contractor, the Employer's Agent and the local communities.

The identification of suitable candidates (maximum 5; minimum 3) for the CLO position shall be resolved by the relevant Sub-council Manager through a process of advertising and shortlisting. Should suitable candidates not be identified through this process, the Contractor shall be allowed to seek candidates from the relevant Sub-Council Job-Seekers Database. The final selection and appointment of the CLO in terms of the contract shall be the responsibility of the Contractor.

The period of appointment of the CLO shall be as stated in the Contract for Temporary Employment as a Community Liaison Officer referred to below. The date of commencement of temporary employment of the CLO shall be as agreed with the Employer's Agent.

If it is required, therefore, that the Contractor enter into a contract of temporary employment with the selected CLO, the contracting parties will be the Contractor and the CLO. To this end, a specimen Form of Contract of Temporary Employment as Community Liaison Officer is included in this document (Part C1.9 Community Liaison Officer). This Form of Contract sets out, inter alia, the agreement between the parties, the duties and conditions of employment of the CLO. The rate of remuneration for the CLO, payable by the Contractor, is currently **R360.00** per day. As said contract will be between the Contractor and the CLO, all costs involved shall be borne by the Contractor and items will be provided in the Bills of Quantities in the Works Project contract document therefor.

# 3.5.4. PARTICIPATION OF TARGETED ENTERPRISES

#### 3.5.4.1 Minimum targeted enterprises contract participation goal

It is a requirement of this contract that enterprises located within the target area, as defined, be engaged by the Contractor for the provision of supplies, services or works necessary for the performance of this contract.

To this end, a minimum targeted enterprises contract participation goal is specified below, which shall be achieved by the Contractor in the performance of the contract, failing which, penalties as described will be applied.

### The specified minimum targeted enterprises contract participation goal (CPGE) is



The Contractor shall engage targeted enterprises directly or indirectly in the performance of the contract to the extent that the total monetary value of such engagements (exclusive of VAT), expressed as a percentage of the value of the contract, is sufficient to achieve the specified minimum  $CPG_E$ .

### 3.5.4.2 Definitions

For the purposes of the requirements in respect of the participation of targeted enterprises, the following definitions shall apply:

"Target area" means the geographical area described in the Works Project contract document.

"Targeted enterprises contract participation goal (CPG<sub>E</sub>)" means the value of supplies, services or works (exclusive of VAT), for which the Contractor contracts targeted enterprises, either directly or indirectly, in the performance of the contract, expressed as a percentage of the value of the contract.

"Targeted enterprises" means any sole trader, partnership or legal entity that acts as a supplier, manufacturer, service provider or sub-contractor, and which has its base of operations in the target area.

"Value of the contract" means the contract sum (accepted contract amount) less provisional sums, contingencies and VAT.

#### 3.5.4.3 Achieving the contract participation goal

The contractor may achieve the specified minimum CPG<sub>E</sub> as follows:

- a) by engaging one or more targeted enterprises to perform commercially useful functions in the performance of the contract;
- b) by engaging non-targeted enterprises, who in turn engage one or more targeted enterprises to perform commercially useful functions in the performance of the contract;
- c) by a combination of the above.

The Contractor shall, within 5 working days of being requested by the Employer's Agent to do so, submit details of his/her plan to achieve the minimum CPG<sub>E</sub>.

#### 3.5.4.4 Contract participation goal credits

Credits towards achieving the minimum  $CPG_E$  shall be granted by converting the total monetary value (exclusive of VAT) of the agreements between the Contractor, or Contractor's sub-contractors, and targeted enterprises, to a percentage of the value of the contract.

No credits shall be accorded should the Contractor (or sub-contractors):

- a) make direct payment to third parties in connection with the contract on behalf of targeted enterprises, when such payment is recovered by making deductions from payments due to the targeted enterprise;
- b) fail to enter into written contractual agreements with the relevant targeted enterprises.

Credits claimed towards the contract participation goal shall be denied where such written contractual agreements contain any of the following:

- c) conditions which are more onerous than those that exist in the prime contract (this contract);
- d) payment procedures based on a pay when paid system;

e) authoritarian rights given to the employing contractor, with no recourse to independent adjudication in the event of a dispute arising.

No credits may be claimed in respect of targeted enterprises that that do not adhere to statutory labour practices.

No credits shall be accorded in respect of targeted enterprises engaged on work in respect of provisional sums or prime cost items.

In the event that a targeted enterprise sub-contracts to another targeted enterprise, only the value of the higher level sub-contract shall be granted as credit towards achieving the specified minimum CPG<sub>E</sub>.

In addition to the form required for contract administration (the Targeted Enterprises Contract Participation Expenditure Report), the Contractor shall furnish the Employer's Agent, upon written request, with documentary evidence that the targeted enterprises have their base of operations in the target area, copies of the contractual agreements with the various targeted enterprises, as well as documentary proof of payments made to the various targeted enterprises.

# 3.5.4.5 Penalties

The financial penalty to be applied for failing to meet the specified minimum targeted enterprises contract participation goal in the performance of the contract (unless proven to be beyond the control of the Contractor), is as follows:

Penalty =  $(CPGE^S - CPGE^A) \times P^*$ 

Where  $CPG_E^S$  = the specified minimum targeted enterprises contract participation goal (expressed as a percentage).

 $CPG_E^A$  = the targeted enterprises contract participation goal achieved (expressed as a percentage).

P\* = the value of the contract.

# 3.5.5 ENVIRONMENTAL MANAGEMENT PROGRAMME

Particular Specification E: Environmental Management Specification and its Annexures are attached hereto.

# 3.5.6 HEALTH AND SAFETY

Particular Specification H: Health and Safety Specification is attached hereto.

### E: ENVIRONMENTAL MANAGEMENT SPECIFICATION

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# **E: ENVIRONMENTAL MANAGEMENT SPECIFICATION**

For use with the General Conditions of Contract for Construction Works, Third Edition, 2015.

# E1 SCOPE

The Environmental Management Programme (EMP) for the project is comprised of this Environmental Management (EM) Specification and its Annexures, including the "Additional environmental issues deemed to form part of the Environmental Management Specification" attached as Annexure D hereto, which together cover the requirements for controlling the impact on the environment of construction activities.

### E2 INTERPRETATIONS

#### E2.1 Supporting specifications

The following standardised specification shall, inter alia, apply to this Contract:

a) SANS 1200A, as may be varied or added to in the Scope of Work

# E2.2 Application

This EM Specification contains clauses that are generally applicable to the undertaking of construction works in areas where it is necessary to impose pro-active controls on the extent to which the construction activities impact on the environment.

In the event of any difference or discrepancy between the provisions of the Standardised Specifications and the provisions of the EM Specification, the latter shall prevail.

#### E2.3 Definitions and abbreviations

For the purposes of this EM Specification the following definitions and abbreviations shall apply:

### E2.3.1 Environment

The surroundings within which humans exist and that are made up of -

- a) the land, water and atmosphere of the earth;
- b) micro-organisms, plant and animal life;
- c) any part or combination of i) and ii) and the interrelationships among and between them; and
- d) the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being.

#### E2.3.2 Potentially hazardous substance

A substance which, in the reasonable opinion of the Employer's Agent, can have a deleterious effect on the environment.

#### E2.3.3 <u>Method Statement</u>

A written submission by the Contractor to the Employer's Agent in response to the EM Specification or a request by the Employer's Agent, setting out the plant, materials, labour and method the Contractor proposes using to carry out an activity, in such detail that the Employer's Agent is enabled to assess whether the Contractor's proposal is in accordance with the Scope of Work and/or will produce results in accordance with the EM Specification.

# E2.3.4 Reasonable

Unless the context indicates otherwise, means reasonable in the opinion of the Employer's Agent after he has consulted with a person suitably experienced in "environmental implementation plans" and "environmental management plans" (both as defined in the National Environmental Management Act, 107 of 1998).

# E2.3.5 Solid waste

All solid waste, including construction debris, chemical waste, excess cement/ concrete, wrapping materials, timber, tins and cans, drums, wire, nails, domestic waste, dead vegetation, asphalt products, etc.

### E2.3.6 <u>Contaminated water</u>

Water contaminated by the Contractor's activities containing cements, concrete, lime, paint products, thinners, turpentine, chemicals, fuels, oils washing detergents, etc.

### E2.3.7 Working area

Any area within the boundaries of the Site where construction is taking place.

#### E2.3.8 Contractor's camp or construction camp

The area designated for all temporary site offices, storage areas, construction plant parking areas, staff welfare facilities, etc.

# E2.3.9 Employer's Agent

The person/firm so named in the Contract Data, whose function is to administer the Contract as agent of the Employer.

# E2.3.10 Employer's Agent's Representative (ER)

The natural person appointed by the Employer's Agent in terms of the Contract, who shall observe the execution of the Works, examine and test materials and workmanship, and deliver and receive communications to/from the Contractor.

# E2.3.11 Environmental Officer (EO)

Appointed by the Employer's Agent as his environmental representative on Site, with the mandate to enforce compliance with the EMP. The duties of the EO are stipulated in the City's guideline document for the EO and ER.

#### E2.3.12 Environmental Control Officer (ECO)

An independent appointment to objectively monitor implementation of relevant environmental legislation, conditions of Environmental Authorisations (EAs), and the EMP for the project.

#### E2.3.13 Environmental Site Officer (ESO)

Employed by the Contractor as his environmental representative to monitor, review and verify compliance with the EMP by the Contractor. The ESO must ensure that he is involved at all phases of the construction (from site clearance to rehabilitation).

### E2.3.14 Abbreviations

The following abbreviations occur in this EM Specification:

EMP - Environmental Management Programme EM Specification – Environmental Management Specification EO - Environmental Officer ECO – Environmental Control Officer ESO – Environmental Site Officer ER – Employer's Agent's Representative MSDS - Material Safety Data Sheets

# E2.4 Employer's Agent's authority to delegate

In terms of Clause 3.2.4 of the General Conditions of Contract, Third Edition, 2015 (GCC 2015), the Employer's Agent has the authority to appoint a representative. Other than the Employer's Agent's Representative (ER) in terms of Clause 3.2, this can be in the form of an Environmental Officer (EO), who shall be responsible for monitoring compliance with the EMP. All instructions given by the EO shall go through the ER, who will then convey these to the Contractor, except in the case of an environmental emergency, in which case the EO can issue an instruction directly to the Contractor. An environmental emergency is one which, in the opinion of the EO, would cause serious environmental harm if not addressed immediately.

Depending on the nature/environmental sensitivity of the Contract the following variations in the organisational structure are possible:

- a) The ER may work together with an EO; or
- b) There may be an ER only (for construction projects with low potential for causing significant environmental impacts). In this case the ER has responsibility for the EO's functions.
- c) There may be an independently appointed Environmental Control Officer (ECO) who will fulfil essentially the same functions as the EO. The ECO may work with just the ER (if there is no EO) or may work with both the ER and EO.

The term "Employer's Agent" in this EM Specification refers to the Employer's Agent as defined in Clause E2.3.9 acting through the ER/EO/ECO as delegated.

# E3 MATERIALS

#### E3.1 Materials handling, use and storage

The Contractor shall ensure that any delivery drivers are informed of all procedures and restrictions (including "no go" areas) required to comply with the EM Specification. The Contractor shall ensure that these delivery drivers are supervised during off loading by someone with an adequate understanding of the requirements of the EM Specification.

Materials shall be appropriately secured to ensure safe passage between destinations. Loads, including but not limited to, sand, stone chip, fine vegetation, refuse, paper and cement, shall have appropriate cover to prevent them spilling from the vehicle during transit. The Contractor shall be responsible for any clean-up resulting from the failure by his employees or suppliers to properly secure transported materials.

All manufactured and or imported materials shall, where reasonably possible, be stored within the Contractor's camp and, if so required by the Employer's Agent, out of the rain. The location and method of protection of such materials stored outside of the Contractor's camp and the method of rehabilitation of these areas, shall be subject to the Employer's Agent's approval.

Stockpile areas shall be approved by the Employer's Agent before any stockpiling commences.

#### E4 Hazardous substances

Hazardous chemical substances (as defined in the Regulations for Hazardous Chemical Substances in GN 1179 (25 August 1995)) stored on Site for use during construction shall be stored in secondary containers which are clearly and appropriately marked/signed. The relevant Material Safety Data Sheets (MSDS) shall be available on Site. Procedures detailed in the MSDSes shall be followed in the event of an emergency situation.

If potentially hazardous substances are to be stored on Site, the Contractor shall inform the Employer's Agent of such substances and provide a Method Statement detailing the substances/ materials to be used, together with the storage, handling and disposal procedures of the materials. Hazardous substances shall be stored out of flood risk areas and disposal of these substances shall be at a licensed waste disposal facility. **PLANT** (referring to "Construction Equipment" as defined in GCC 2015, and the Contractor's facilities as used

#### in SANS 1200A)

# E4.1 Fuel (petrol and diesel) and oil

# E4.1.1 Storage

If fuel and oil is to be stored on Site, then the Contractor shall submit a Method Statement covering the procedures for dealing with accidental hydrocarbon spillage and leaks, and detailing how these liquids will be stored, handled and disposed of.

The Employer's Agent shall approve the location of all fuel storage areas. All necessary approvals with respect to fuel storage and dispensing shall be obtained from the appropriate authorities. Symbolic safety signs depicting "**No Smoking**", "**No Naked Lights**" and "**Danger**" conforming to the requirement of SANS 1186 are to be prominently displayed in and around the fuel storage area. There shall be adequate fire-fighting equipment at the fuel storage area.

The Contractor shall ensure that all liquid fuels and oils are stored in tanks with lids, which are kept firmly shut and adequately secured. The capacity of the tank shall be clearly displayed and the product contained within the tank clearly identified using the emergency information system detailed in SANS 0232 part 1. Fuel storage tanks shall have a capacity not exceeding 9000 litres and shall be kept on site only for as long as fuel is needed for construction activities, on completion of which they shall be removed.

The tanks shall be situated on a smooth impermeable base with an earth bund. The volume inside the bund shall be 110% of the total capacity of the largest storage tank. The base may be constructed of concrete, or of plastic sheeting with impermeable joints, covered by a layer of compacted earth to protect the sheeting. The impermeable lining shall extend to the crest of the bund. The floor of the storage area shall be sloped to enable any spilled fuel and/or fuel-contaminated water to be removed easily.

If any rainwater collects in the bunded areas, it shall be promptly removed and taken off Site to a disposal site approved by the Employer's Agent.

Only empty and externally clean tanks may be stored on the bare ground. Empty and externally dirty tanks shall be sealed and stored on an area where the ground has been protected.

Adequate precautions shall be provided to prevent spillage during the filling of any tank and during the dispensing of the contents. If fuel is dispensed from 200 litre drums, the proper dispensing equipment shall be used, and the drum shall not be tipped in order to dispense fuel. The dispensing mechanism for the fuel storage tanks shall be stored in a waterproof container when not in use.

#### E4.1.2 Refuelling

Plant shall be refuelled at a designated refuelling area approved by the Employer's Agent. The surface under the temporary refuelling area shall be protected against pollution to the reasonable satisfaction of the Employer's Agent prior to any refuelling activities. The Contractor shall ensure that there is always a supply of absorbent material (e.g. Spill Sorb or Enretech #1 powder or equivalent) readily available that is designed to absorb, break down and encapsulate minor hydrocarbon spillage. The quantity of such material shall be able to handle a minimum of 200 litres of hydrocarbon liquid spill.

#### E4.1.3 <u>Treatment and remediation</u>

Treatment and remediation of hydrocarbon spill and leak areas shall be undertaken to the satisfaction of the Employer's Agent. In the event of a hydrocarbon spill the source of the spillage shall be isolated and the spillage contained.

#### E4.2 Ablution and toilet facilities

Washing, whether of the person or of personal effects, defecating and urinating are strictly prohibited other than at the facilities provided.

The Contractor shall provide ablution facilities for all personnel employed on the Site, including shelter, toilets and washing facilities. The Contractor's personnel will not be permitted to use the City's ablution facilities.

Toilet facilities provided by the Contractor shall occur in a ratio of not less than 1 toilet per 30 workers (1:15 is preferred) of each sex. Toilet facilities shall be located within the Contractor's camp, but also at work areas remote from the camp, all to the satisfaction of the Employer's Agent. All portable toilets shall be adequately secured to the ground to prevent them toppling over as a result of wind or any other cause.

The Contractor shall ensure that the entrances to these toilets are adequately screened from view, that they are maintained in a hygienic state, serviced regularly, that no spillage occurs when they are cleaned and that contents are removed from Site. Toilets shall also be emptied before any temporary site closure for a period exceeding one week. Discharge of waste from toilets into the environment and burial of waste is strictly prohibited. The Contractor shall provide toilet paper at all times.

No ablution facilities shall be located closer than 50m to any water body

A Method Statement shall be provided by the Contractor detailing the provision, location, and maintenance of ablution facilities.

# E4.3 Eating areas

The Contractor shall designate eating areas within the approved Contractor's camp. The feeding of, or leaving of food for, animals is strictly prohibited. Sufficient bins, as specified in Clause E4.4 below, shall be present in these areas.

Any cooking on Site shall be done on well-maintained gas cookers with fire extinguishers present. No open fires for cooking purposes shall be permitted, unless for occasional use in facilities specifically provided for this purpose and within the confines of the Contractor's camp.

### E4.4 Solid waste management

### E4.4.1 Litter and refuse

The site shall be kept neat and clean at all times, littering is prohibited.

No on-site burying or dumping of any waste materials, vegetation, litter or refuse shall occur. The Contractor shall provide scavenger and weatherproof bins with lids, of sufficient number and capacity to store the solid waste produced on a daily basis. The lids shall be kept firmly on the bins at all times. Bins shall not be allowed to become overfull and shall be emptied regularly, at least once a week. Waste from bins may be temporarily stored on Site in a central waste area that is weatherproof and scavenger-proof, and which the Employer's Agent has approved. Wherever possible refuse shall be recycled, and containers for glass, paper, metals and plastics shall be provided and the contents delivered to suitable recycling facilities when necessary.

All other litter and refuse shall be disposed of off Site at an approved landfill site. The Contractor shall supply the Employer's Agent with a certificate of disposal.

# E4.4.2 Construction waste

Where possible all construction waste or spoil material shall be recycled, either on Site or elsewhere. As a last resort all construction waste shall be disposed of off Site at an approved landfill site. The Contractor shall supply the Employer's Agent with a certificate of disposal.

#### E4.5 Contaminated water management

Potential pollutants of any kind and in any form shall be kept, stored, and used in such a manner that any spill or escape can be contained and the water table and/or any adjacent water courses or bodies are not endangered. Spill kits which can be used to contain and/or mop up spills shall be available. Water containing such pollutants as cements, concrete, lime, chemicals, oils and fuels shall be discharged into a conservancy tank for removal from the Site to a licensed disposal facility. This particularly applies to water emanating from concrete batching plants and to runoff from fuel storage, refuelling or construction equipment washing areas. Wash down areas shall be placed and constructed in such a manner so as to ensure that the surrounding areas are not polluted.

No paint products, chemical additives and cleaners, such as thinners and turpentine, may be disposed of into the stormwater system or elsewhere on Site. Brush/roller wash facilities shall be established to the satisfaction of the Employer's Agent.

A Method Statement shall be provided by the Contractor detailing the management of contaminated water.

Should contaminated water be released into the environment, specifically into a water course, monitoring thereof shall commence in accordance to the National Water Act, 36 of 1998, Section 21(f) – refer to GN 399 (26 March 2004). Contaminated water must not be released into the environment without authorisation from the relevant authority.

The Contractor shall notify the Employer's Agent immediately of any pollution incidents on Site and, at his own cost, take all reasonable measures to contain and minimise the effects of the pollution.

Any rehabilitation of the environment required as a result of such pollution shall be carried out by the Contractor at his own cost in accordance with a Method Statement approved by the Employer's Agent.

#### E4.6 Site structures

The type and colour of roofing and cladding materials to the Contractor's temporary structures shall be selected to reduce the visual impact.

#### E4.7 Lights

The Contractor shall ensure that any lighting installed on the Site for his activities does not cause a reasonably avoidable disturbance to other users of the surrounding area.

Lighting installed shall, as far as practically possible, be energy efficient. Lighting utilised on Site shall be turned off when not in use.

#### E4.8 Workshop, equipment maintenance and storage

No workshops or plant maintenance facilities shall be constructed on Site for performing major or routine maintenance of equipment and vehicles.

The Contractor shall ensure that in those areas where, after obtaining the Employer's Agent's approval, the Contractor carries out emergency or minor routine plant maintenance, there is no contamination of the soil, water sources or vegetation. Drip trays to collect waste oil and other lubricants shall be provided in any areas of the Site where such maintenance takes place. Drip trays must be emptied regularly and after rain, and the contents disposed of at a licensed disposal facility.

All vehicles and plant shall be kept in good working order. Leaking vehicles and plant shall be repaired immediately or removed from the Site.

The washing of vehicles and plant on Site shall be restricted to emergency or minor routine maintenance requirements only. Washing may only be undertaken in areas designated by the Employer's Agent.

#### E4.9 Noise

The Contractor shall limit noise levels (for example, by installing and maintaining silencers on plant). The provisions of SANS 1200A Clause 4.1 regarding "built-up areas" shall apply.

Appropriate directional and intensity settings are to be maintained on all hooters and sirens.

No amplified music shall be allowed on Site. The use of audio equipment shall not be permitted, unless the volume is kept sufficiently low so as to be unobtrusive. The Contractor shall not use sound amplification equipment on Site, unless in emergency situations.

Construction activities generating output levels of 85 dB(A) or more in residential areas, shall be confined to the hours 08h00 to 17h00 Mondays to Fridays. Should the Contractor need to do this work outside of the above times, he shall do so only with the approval of the Employer's Agent, and the surrounding communities shall be informed prior to the work taking place.

#### E5 CONSTRUCTION

# E5.1 Method Statements

The Contractor shall submit the environmental method statements required within such reasonable time as the Employer's Agent shall specify or as required by the EM Specification. The Contractor shall not commence any activity until the Method Statement in respect thereof has been approved and shall, except in the case of emergency activities, allow a period of two weeks for consideration of the Method Statement by the Employer's Agent.

The Employer's Agent may require changes to a Method Statement if the proposal does not comply with the specification or if, in the reasonable opinion of the Employer's Agent, the proposal may result in, or carries a greater than reasonable risk of, damage to the environment in excess of that permitted by the EM Specification.

Approved Method Statements shall be readily available on the Site and shall be communicated to all relevant personnel. The Contractor shall carry out the Works in accordance with the approved Method Statement. Approval of the Method Statement shall not absolve the Contractor from any of his obligations or responsibilities in terms of the Contract.

Changes to the way the Works are to be carried out must be reflected by amendments to the original approved Method Statements, and these amendments require the signature of both the Contractor and the Employer's Agent.

Method Statements shall consider all environmental hazards and risks identified by the Contractor and/or Employer's Agent and shall contain sufficient information and detail to enable the Employer's Agent to assess the potential negative environmental impacts associated with the proposed activity and shall cover applicable details with regard to:

- a) construction procedures,
- b) materials and equipment to be used,
- c) getting the equipment to and from Site,
- d) how the equipment/material will be moved while on Site,
- e) how and where material will be stored,
- f) the containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur,
- g) the control of fire,
- h) timing and location of activities,
- i) compliance/non-compliance with the EM Specification,
- j) any other information deemed necessary by the Employer's Agent.

The format to be used for the required method statements is bound in Annexure A of this EM Specification. The Contractor (and, where relevant, any sub-contractors) must also sign the Method Statement, thereby indicating that the work will be carried out according to the methodology contained in the approved Method Statement.

### E5.1.1 Method Statements to be provided within 14 days from the Commencement Date

- a) Layout and Preparation of Contractor's Camp (E5.4).
- b) Ablution Facilities: number of, location, cleaning, method of securing to the ground, etc. of portable toilets (E4.2).
- c) Solid Waste Management: number of, type, location, cleaning, method of securing to the ground, etc. of bins (E4.4).
- d) Environmental Awareness Training: logistics for the environmental awareness courses for all the Contractor's management staff, as well as other employees (E5.2).
- e) Emergency Procedures for Accidental Hydrocarbon Leaks and Spillages (E4.1 and E5.8).
- Asphalt and Bitumen: details of all methods and logistics associated with the use of bitumen and asphalt (E5.11).

### E5.2 Environmental Awareness Training

It is a requirement of this Contract that environmental awareness training courses are run for all personnel on Site. Two types of courses shall be run: one for the Contractor's and subcontractors' management, and one for all site staff and labourers. Courses shall be run during normal working hours at a suitable venue provided by the Contractor. All attendees shall remain for the duration of the course and sign an attendance register that clearly indicates participants' names on completion, a copy of which shall be handed to the Employer's Agent. The Contractor shall allow for sufficient sessions to train all personnel. Subsequent sessions shall be run for any new personnel coming onto Site. A Method Statement with respect to the organisation of these courses shall be submitted.

Notwithstanding the specific provisions of this clause, it is incumbent upon the Contractor to convey the spirit of the EM Specification to all personnel involved with the Works.

## E5.2.1 Training Course for Management and Foremen

The environmental awareness training course for management shall include all management and foremen. The course, which shall be presented by the Employer's Agent or his designated representative, shall be of approximately one hour duration. The course shall be undertaken prior to the commencement of work on Site.

### E5.2.2 Training Course for Site Staff and Labour

The environmental awareness training course for site staff and labour shall be presented by the Contractor from material provided by the Employer's Agent. The course shall be approximately one hour long. The course shall be undertaken not later than 3 working days after the commencement of work on Site, with sufficient sessions to accommodate all available personnel.

All the Contractor's employees, sub-contractors' employees and any suppliers' employees that spend more than 1 day a week or four days in a month on Site shall attend the Environmental Awareness Training Course for Site Staff and Labour

## E5.3 Contractor's Environmental Representative (ESO)

The Contractor shall appoint an environmental representative, also called an Environmental Site Officer (ESO), who shall be responsible for undertaking a daily site inspection to monitor compliance with this EM Specification. The Contractor shall forward the name of the environmental representative (ESO) to the Employer's Agent for his approval. The environmental representative (ESO) shall complete Environmental Site Inspection Checklists (Annexure B attached hereto) and these shall be submitted to the Employer's Agent once a week.

#### E5.4 Site division, demarcation and "no go" areas

The Contractor shall restrict all his activities, materials, plant and personnel to within the Site or any particular working areas specified or indicated on the drawings.

The Contractor shall erect and maintain permanent and/or temporary fences of the type and in the locations specified elsewhere in the Scope of Work or on the drawings. Such fences shall, if so specified, be erected before undertaking any construction activities.

Where environmentally sensitive areas are specified as "no go" areas, the Contractor shall ensure that, insofar as he has the authority, no person, plant or material shall enter the "no go" areas at any time.

A Method Statement detailing the layout and method of establishment of the Contractor's camp (including all offices, shelters, eating areas, storage areas, ablution facilities and other infrastructure required for the running of the project) shall be provided.

## E5.5 Access routes/ haul roads

On the Site and, if so required, within such distance of the Site as may be stated by the Employer's Agent, the Contractor shall control the movement of all vehicles and construction equipment, including that of his suppliers, so that they remain on designated routes, are distributed so as not to cause an undue concentration of traffic, and that all relevant laws are complied with. In addition, the movement of such vehicles and construction equipment shall be planned and operated so as to minimise disruption to regular users of the routes. As far as possible the Contractor shall use existing access and haul routes. Damage to existing access roads as a result of construction activities shall be repaired to the satisfaction of the Employer's Agent, using material similar to that originally used. The cost of the repairs shall be borne by the Contractor. New temporary access or haul routes may only be established with the prior approval of the Employer's Agent. The rehabilitation of such routes shall be to the Contractor's own cost and to the approval of the Employer's Agent.

Any directional signage required by the Contractor for the purposes of directing the movement of his own vehicles and construction equipment (or that of his subcontractors or suppliers) must be of a design and in a location approved by the Employer's Agent. Directional signage may not be erected in such a manner that it interferes with sight lines or pedestrian movement.

## E5.6 Construction personnel information posters

The Contractor shall erect and maintain information posters for the information of his employees, depicting actions to be taken to ensure compliance with aspects of the EM Specification. A2 information posters, printed on white vinyl, shall be erected at the eating areas and any other locations specified by the Employer's Agent.

The specification for the poster is presented in Annexure C of this EM Specification. The symbols shall be black and the circles shall be red lines. The Contractor shall ensure that the construction personnel information posters are not

damaged in any way, and shall replace a poster if any part of it becomes illegible.

## E5.7 Fire control

Other than for cooking purposes as specified in Clause E4.3, no fires may be lit on Site. Any fires which occur shall be reported to the Employer's Agent immediately.

Smoking shall not be permitted in those areas where it is a fire hazard. Such areas shall include fuel storage and refuelling areas, and any other areas where the vegetation or other materials are susceptible to the start and rapid spread of fire.

In terms of the National Environment Management: Air Quality Act, 39 of 2004 and Community Fire Safety By-law, burning is not permitted as a disposal method.

The Contractor shall appoint a Fire Officer (who may be the ESO) who shall be responsible for ensuring immediate and appropriate actions in the event of a fire and shall ensure that employees are aware of the procedure to be followed. The Contractor shall advise the relevant authority of a fire as soon as one starts and shall not wait until he can no longer control it. The Contractor shall forward the name of the Fire Officer to the Employer's Agent for his approval.

The Contractor shall comply with Clause 27 of the Construction Regulations, 2003 where applicable, and shall ensure that there is suitable and sufficient fire-fighting equipment available on Site at all times.

The Contractor shall be liable for any costs relating to the rehabilitation of burnt areas, should the fire be the result of the Contractor's activities on Site

The Contractor shall submit a Method Statement to the Employer's Agent covering the procedure to be followed in the event of a fire.

#### E5.8 Emergency procedures

The Contractor's attention is drawn to the Method Statements required in terms of Clauses E4.1 and E5.7 above. Such Method Statements shall include procedures to be followed by the Contractor in the event of an emergency.

Furthermore, in the event of an emergency the Contractor shall contact the City of Cape Town's Emergency Call Centre by telephoning 107 or 021 480 7700 (from a cell phone). Telephone numbers of emergency services, including the local fire fighting service, shall be posted conspicuously in the Contractor's office near the telephone.

## E5.9 Health and safety

The Contractor shall comply with requirements of the Occupational Health and Safety Act, 85 of 1993 and Construction Regulations, 2014, the Health and Safety Specification and relevant clauses of GCC 2015, insofar as health and safety is concerned.

#### E5.10 Community relations

If so required, the Contractor shall erect and maintain information boards in the position, quantity, design and dimensions specified in the Scope of Work or as directed by the Employer's Agent. Such boards shall include contact details for complaints by members of the public in accordance with details provided by the Employer's Agent.

The Contractor shall keep a "Complaints Register" on Site. The Register shall contain all contact details of the person who made the complaint, and information regarding the complaint itselC.

#### E5.11 General protections in terms of the National Heritage Resources Act, 25 of 1999

The Contractor shall take cognisance of the provisions of the National Heritage Resources Act, 25 of 1999 in respect of, *inter alia*, structures older than 60 years; archaeology, palaeontology and meteorites; burial grounds and graves; and public monuments and memorials.

## E5.12 Protection of natural features

The Contractor shall not deface, paint, damage or mark any natural features (e.g. rock formations) situated in or around the Site for survey or other purposes, unless agreed beforehand with the Employer's Agent. Any features affected by the Contractor in contravention of this clause shall be restored/ rehabilitated to the satisfaction of the Employer's Agent. The cost of restoration/rehabilitation shall be borne by the Contractor.

The Contractor shall not permit his employees to make use of any natural water sources (e.g. springs, streams, open water bodies) for the purposes of swimming, personal washing and the washing of machinery or clothes.

## E5.13 Protection of flora and fauna

Except to the extent necessary for the carrying out of the Works, as specified by the Employer's Agent, no vegetation shall be removed, damaged or disturbed.

The presence of any wild animals found on Site shall be reported to the Employer's Agent, who shall issue an instruction with regard to their removal or relocation. If a wild animal needs removal from the Site the Cape Nature (Metro Region) Conservation Services Manager may be contacted for assistance (tel 021 955 9132/9121/3122/9130). Trapping poisoning, injuring or shooting animals is strictly forbidden. No domestic pets or livestock are permitted on Site, with the exception of controlled watchdogs approved by the Employer's Agent.

Where the use of herbicides, pesticides and other poisonous substances has been specified, the Contractor shall submit a Method Statement to the Employer's Agent for approval.

## E5.14 Erosion and sedimentation control

The Contractor shall take all reasonable measures to limit erosion and sedimentation due to the construction activities and shall, in addition, comply with such detailed measures as may be required by the Scope of Work. Where erosion and/or sedimentation, whether on or off the Site, occurs, rectification shall be carried out in accordance with details specified by the Employer's Agent. Where erosion and/or sedimentation occur due to the fault of the Contractor, rectification shall be carried out to the reasonable requirements of the Employer's Agent, at the Contractor's cost. In particular, the Contractor shall ensure that the City's stormwater system is kept free from sediment arising from the Works.

Any runnels or erosion channels developed during the construction period or during the vegetation establishment period shall be backfilled and compacted, and the areas restored to a proper condition. Stabilisation of cleared areas to prevent and control erosion shall be pro-actively managed by the Contractor. The method of stabilisation shall be determined in consultation with the Employer's Agent.

#### E5.15 Aesthetics

The Contractor shall take any requisite measures to ensure that construction activities do not have an undue negative impact on the aesthetics of the area.

## E5.16 Temporary site closure

In the event of temporary site closure (for a period exceeding one week), the Contractor's ESO shall carry out checks and ensure that, amongst others, the following conditions pertain and report on compliance with this clause:

- a) Fire extinguishers are serviced and accessible.
- b) There is adequate ventilation in enclosed spaces.
- c) All hazardous substance stores are securely locked.
- d) Fencing and barriers are in place.
- e) Emergency and management contact details are prominently displayed and available.
- f) Wind and dust mitigation measures, e.g. straw, brush packs, irrigation, etc. are in place.
- g) Excavated and filled slopes and stockpiles are at a stable angle and capable of accommodating normal expected water flows.
- h) There are sufficient detention ponds or channels in place.
- i) Cement and materials stores are secured.
- j) Toilets are empty and secured.
- k) Central waste area and all refuse bins are empty and secured.
- I) Contaminated water conservancy tank empty.
- m) Any bunded areas are clean and treated with an approved product where applicable (e.g. Spill Sorb or Enretech #1 powder or equivalent).
- n) Drip trays are empty and secure

## E5.17 Asphalt and bitumen

Bitumen drums/products, if stored on Site, shall be stored in an area approved by the Employer's Agent. This area shall be indicated on the Method Statement for the Layout and Preparation of the Contractor's Camp. The storage area shall be constructed with an appropriate base, bunding and sump to the satisfaction of the Employer's Agent. A Method Statement shall be provided in this regard.

When heating bitumen products, the Contractor shall take cognisance of appropriate fire risk controls. Heating shall only be undertaken using LPG or similar zero emission fuels. Appropriate fire fighting equipment shall be readily available on Site.

#### E5.18 Dust

The Contractors shall be solely responsible, at his cost, for the control of dust arising from his activities on Site, and for any costs involved in damages resulting from the dust. The Contractor shall take all reasonable measures to minimise the generation of dust

## E5.19 Contractor's advertising signage

Any advertising on the Site or any part of the Works shall remain at the sole discretion of the Employer, who reserves the right to order, via the Employer's Agent, its removal, covering or re-sizing, wherever placed, at no cost to the Employer.

Apart from at the Contractor's camp, no signage advertising the Contractor, or any of its subcontractors, manufacturers, suppliers or service providers shall be placed, fixed or erected anywhere on the Site or on the Works without the prior approval of the Employer's Agent. No advertising signage will be permitted on any designated scenic route. Notwithstanding any prior approval given, the Employer's Agent may instruct the Contractor to remove, cover or re-size any advertising signage at any time at no cost to the Employer.

Advertising signage at the Contractor's camp shall be appropriately designed and sized with due consideration to the surrounding environment, views and sight lines.

Branding or identification markings on the Contractor's and subcontractor's vehicles and equipment is generally permitted, although the Employer reserves the right to instruct, via the Employer's Agent, the removal, covering or re-sizing of any branding, markings or signage, on any equipment (scaffolding, for example), which it considers inappropriate in the environment in which it is placed.

No third party advertising (that is, in respect of any person, business or product that is not associated with the Works) shall be permitted anywhere on the Site or Works.

#### E5.20 Clearance of Site on completion

On completion of the Works, and at final completion when all defects have been remedied or corrected, the Contractor shall, in addition to the requirements for clearance of the Site in terms of the Contract, ensure that he has complied with the following requirements in terms of this EM Specification:

## E5.20.1 Clause E3.1

Clean-up of improperly secured transported materials, and rehabilitation of storage areas.

E5.20.2 Clause E4.1.3

Remediation of hydrocarbon spill and leak areas.

E5.20.3 Clause E4.4

Disposal of litter, refuse and Contractor's waste.

E5.20.4 Clause E5.4

Removal of temporary fences and Contractor's camp.

E5.20.5 Clause E5.5

Repair of access roads damaged by the Contractor, and rehabilitation of temporary access routes.

## E5.20.6 Clause E5.7

Rehabilitation of burnt areas should a fire be the result of Contractor's activities on Site.

## E5.20.7 Clauses E5.11 to 5.13

Rehabilitation of heritage and natural features, including vegetation which is damaged or disturbed, which required protection in terms of these clauses.

## E5.20.8 Clause E5.14

Rectification where erosion and/or sedimentation has occurred due to the fault of the Contractor .

## E5.20.9 Clause E5.19

Removal of Contractor's advertising signage.

## E6 TOLERANCES

### E6.1 Fines

Environmental management is concerned not only with the final results of the Contractor's operations, but also with the control of how these operations are carried out. Tolerance with respect to environmental matters applies not only to the finished product, but also to the standard of the day-to-day operations required to complete the Works.

It is thus required that the Contractor shall comply with the EM Specification on an on-going basis and any failure on his part to do so will entitle the Employer's Agent to certify the imposition of a fine. Fines may be issued per incident at the discretion of the Employer's Agent. Such fines will be issued in addition to any remedial costs incurred as a result of non-compliance with the environmental specifications. The Employer's Agent will inform the Contractor of the contravention and the amount of the fine, and will deduct the amount from monies due in payment certificates issued under the Contract.

Maximum fines for the following transgressions by either the Contractor and/or his sub-contractors may be imposed by the Employer's Agent, as follows:

		Maximum fine per incident
a)	Vehicles, plant or materials related to the Contractor's operations, parked or stored outside the demarcated boundaries of the Site.	R 2 000
b)	Persons, vehicles, plant or materials related to the Contractor's operations, found within the designated boundaries of a "no go" area.	R 4 000
c)	Persistent and unrepaired oil leaks from machinery/not using a drip tray to collect waste oil and other lubricants/not using specified absorbent material to encapsulate hydrocarbon spillage/using inappropriate methods of refuelling (the use of a funnel rather than a pump).	R 3 000
d)	Refuelling in areas not approved by the Employer's Agent.	R 3 000
e)	Litter on Site.	R 1 000
f)	Deliberate lighting of fires on Site.	R 5 000
g)	Individual not making use of the Site ablution facilities.	R 1 000
h)	Damage to trees not specified to be removed.	R 5 000
i)	Dust or excessive noise emanating from the site	R 1 000
j)	Not containing water contaminated with pollutants such as cement, concrete, fuel, etc.	R 2 000

For each subsequent similar offence the fine shall be doubled in value to a maximum value of R50 000.

## E7 TESTING

Not applicable to this tender.

## E8 MEASUREMENT AND PAYMENT

## E8.1 Basic principles

Except where separate pay items have been measured in the Bills of Quantities, all costs in respect of complying with the EM Specification are deemed to be covered by the sum tendered for complying with the EM Specification.

## ANNEXURE A: ENVIRONMENTAL METHOD STATEMENT

CONTRACT

DATE

PROPOSED ACTIVITY (give title of method statement and reference number from the EMP):

WHAT WORK IS TO BE UNDERTAKEN (give a brief description of the works - attach extra information to ensure accurate description given):

WHERE THE WORKS ARE TO BE UNDERTAKEN (where possible, provide an annotated plan and a full description of the extent of the works):

START AND END DATE OF THE WORKS FOR WHICH THE METHOD STATEMENT IS REQUIRED:

Start Date:

End Date:

**HOW THE WORKS ARE TO BE UNDERTAKEN** (provide as much detail as possible, including annotated sketches and plans where possible):

Note: please give too much information rather than too little. Please ensure that issues such as emergency procedures, hydrocarbon management, wastewater management, access, individual responsibilities, materials, plant used, maintenance of plant, protection of natural features, etc. are covered where relevant

## DECLARATIONS

## 1) EMPLOYER'S AGENT'S REPRESENTATIVE/ENVIRONMENTAL OFFICER/ENVIRONMENTAL CONTROL OFFICER

The work described in this Method Statement, if carried out according to the methodology described, appears to be satisfactorily mitigated to prevent avoidable environmental harm:

(signed)

(print name)

Dated: \_\_\_\_\_

## 2) CONTRACTOR

I understand the contents of this Method Statement and the scope of the works required of me. I further understand that this Method Statement may be amended on application to other signatories and that the Employer's Agent's Representative/Environmental Officer/Environmental Control Officer will audit my compliance with the contents of this Method Statement. I understand that this method statement does not absolve me from any of my obligations or responsibilities in terms of the Contract.

(signed)

(print name)

Dated: \_\_\_\_\_

## 3) EMPLOYER'S AGENT

The works described in this Method Statement are approved.

(signed)

(print name)

(designation)

Dated: \_\_\_\_\_

## ANNEXURE B: ENVIRONMENTAL SITE INSPECTION CHECKLIST

To be submitted to the Employer's Agent once a week

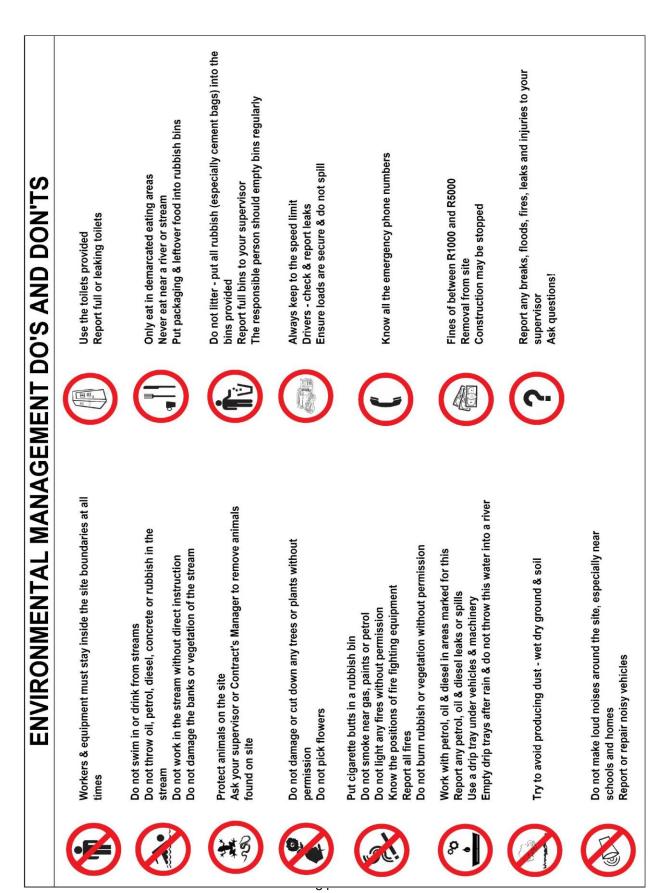
CONTRACT

DATE

	ENVIRONMENTAL ASPECT	YES/ NO (✓ or X)	COMMENTS
•	All new personnel on Site are aware of the contents of the EMP and have been through the environmental awareness course.		
•	Contractor's camp is neat and tidy and the labourers' facilities are of an acceptable standard.		
•	Sufficient and appropriate fire fighting equipment is visible and readily available in the appropriate places.		
•	Waste control and removal system is being maintained.		
•	Fences are being maintained.		
•	Drip trays are being utilised where there is a risk of spillage.		
•	Bunded areas/drip trays are being emptied on a regular basis (especially after rain).		
•	No leaks are visible from construction vehicles.		
•	Refuelling of vehicles and plant occurs within designated areas, and appropriate refuelling apparatus and drip trays are being used.		
•	"No go" areas, natural features, vegetation, etc. have not been damaged.		
•	Dust control measures (if necessary) are in place and are effectively controlling dust.		
•	Noise control measures (if necessary) are in place and are working effectively.		
•	Erosion and sedimentation control measures (if necessary) are in place and are controlling effectively.		
•	Material stockpiles are located within the boundary of the Site and are protected from erosion.		
•	Other		

Completed by:....

Signed:....



Contract Part C3: Scope of Work Reference No. 95Q/2020/21

# ANNEXURE D: ADDITIONAL ENVIRONMENTAL ISSUES DEEMED TO FORM PART OF THE ENVIRONMENTAL MANAGEMENT PROGRAMME

Listed below are issues pertaining to the environment that form part of the Contract Document. The clause references relate to the **General Conditions of Contract for Construction Works, Third Edition, 2015 (GCC 2015)**. They are listed here to emphasise that they form part of the environmental considerations and requirements for this project. They must be read together with any Contract Specific Data referring thereto in Part C1.2 Contract Data. The comments made below on the various issues are to be taken as explanatory, in so far as environmental matters are concerned, and do not modify the clauses in any way.

## 1. Monitoring

Clause 3.1.1 makes provision for the Employer's Agent to administer the Contract in accordance with the provisions of the Contract, including the monitoring of any environmental variables.

## 2. Health and safety

Clauses 3.1.4, 4.3.1, 4.3.2 and 4.10.1 remind the Contractor of his obligations in terms of the Occupational Health and Safety Act (No. 85 of 1993) and Construction Regulations 2003.

Clause 5.7 of SANS 1200A reinforces these requirements through the observation of proper and adequate safety arrangements.

## 3. Employer's Agent's authority to delegate

Clause 3.2.4 gives the Employer's Agent the authority to appoint a representative to act as the Environmental Officer (EO) for the Contract. The EO, who shall be responsible for monitoring compliance with the EMP, may be the Employer's Agent's Representative or any other person accountable to the Employer's Agent.

## 4. Employer's Agent's instructions

Clause 4.2.1 requires that the Contractor comply with the Employer's Agent's instructions on any matter relating to the Works. Moreover, Clause 4.2.2 ensures that the Contractor only takes instructions from the Employer's Agent, the Employer's Agent's Representative or a person authorised by the Employer's Agent in terms of Clause 3.2.4.

## 5. Compliance with applicable laws

Clause 4.3.1 requires that the Contractor comply with all applicable laws, regulations, etc. in fulfilling the Contract.

## 6. Protection of fossils, etc.

Clause 4.7.1 requires the Contractor to take reasonable precautions to prevent any person from damaging, *inter alia* anything of geological or archaeological interest, and requires that he inform the Employer's Agent and follows any instructions issued in this regard.

## 7. Housing, food and transport

Clause 4.10.1 requires the Contractor to make his own arrangements for payment, housing, feeding and transport for his employees, provided that if he uses any part of the Site for such purposes he shall obtain the Employer's Agent's prior approval.

Clause 4.2 of SANS 1200A further requires that facilities provided comply with local authority regulations and are maintained in a clean and sanitary condition.

## 8. Competent employees

Clause 4.11.1 requires that all persons employed on Site are careful, competent, and efficient. These attributes embrace knowledge of the environmental matters and issues dealt with in the EMP.

## 9. Removal from Site

Clause 4.11.2 makes provision for the Employer's Agent to instruct the removal from the Works and Site of any person who is guilty of misconduct, or is incompetent or negligent, or is an undesirable presence on Site.

Clause 7.1.1 requires that all Construction Equipment be in good working order. Accordingly, the Employer's Agent may order that any Construction Equipment not complying with the environmental specifications be removed from Site.

### 10. Unacceptable documentation

Clauses 5.3.1 and 5.3.2 require the Contractor to provide documentation required before commencement with Works execution, failing which the Employer may terminate the Contract. Such documentation includes the Protection of the Environment Declaration provided for in the Contract Document.

### 11. Programme and Method Statements

Clause 5.6.1 makes provision for the Employer's Agent to request the programmes for carrying out the Works.

Clause 5.6.2 makes provision for the Employer's Agent to request statements from the Contractor for the entire scope of the work. In the case of the environmental specifications, these would be submitted as Method Statements.

#### 12. Hours of operation

Clause 5.8.1 restricts the Contractors hours of operation to between sunrise and sunset on working days (usually from Monday to Saturday), unless, *inter alia*, permitted by the Employer's Agent in writing.

Clause 5.7.2 further requires that in the event that permission is granted for night work, then such work shall be carried out without excessive noise and disturbance.

## 13. Suspension of Works

Clause 5.11.1 enables the Employer's Agent to suspend the progress of the Works or any part thereof, which may be as a result of some default or breach of the Contract on the part of the Contractor.

#### 14. Site clean-up

Clause 5.15.1 requires that, on completion of the Works, the Contractor shall clear away and remove from the Site all Construction Equipment, surplus materials, rubbish and Temporary Works of every kind and leave the whole of the Site and Works clean and in a safe condition. All streams and watercourses shall be restored to the condition as at the commencement of the Works. Should the Contractor fail to do the work upon notice from the Employer's Agent, the Employer may in terms of Clause 7.8.3, employ others to carry out the work and recover the cost of doing so from the Contractor.

## 15. Access to the Works

Clause 7.3.1 makes provision for the Employer's Agent to authorise the Environmental Officer (EO) to have access to the Works and Site.

#### 16. Pollution prevention and interferences

Clause 8.1.2 requires that all operations necessary for the execution of the Works be carried out so as not to cause unnecessary noise or pollution, or to interfere unnecessarily or improperly with public services, or the access to, use and occupation of public or private roads and footpaths or properties.

Clause 5.6 of SANS 1200A further requires the Contractor to minimise dust nuisance and pollution of streams and inconvenience to or interference with the public.

#### 17. Dust

Clause 8.1.2 requires that all operations necessary for the execution of the Works be carried out so as not to cause unnecessary pollution.

Clause 5.6 of SANS 1200A requires that the Contractor take all reasonable measures to minimise any dust nuisance.

#### 18. Noise

Clause 8.1.2 requires that all operations necessary for the execution of the Works be carried out so as not to cause unnecessary noise.

Clause 4.1 of SANS 1200A requires that when working in built-up areas, the Contractor shall provide and use suitable and effective silencing devices for pneumatic tools and other plant that would otherwise cause a noise level exceeding 85dB.

## 19. Protection of existing environment

Clause 8.1.3 requires that the Contractor uses every reasonable means to prevent any roads or bridges to or in the vicinity of the Site being subjected to damage by excessive loads, or disruption due to excessive traffic, occasioned by his transport arrangements.

#### 20. Reinstatement

Clauses 8.2 and 8.4 make provision for the Contractor to repair and make good any damage to the Works in his care (other than "excepted risks"), and bear any costs associated with such reinstatement.

#### 21. Reporting accidents

Clause 8.5.1 requires the Contractor to report to the Employer's Agent every occurrence on the Site which causes environmental damage.

## **H: HEALTH AND SAFETY SPECIFICATION**

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## **H: HEALTH AND SAFETY SPECIFICATION**

For use with the General Conditions of Contract for Construction Works, Third Edition, 2015.

## H1 DEFINITIONS

For the purposes of this Specification, the definitions given in the Occupational Health and Safety Act, 85 of 1993 and the Construction Regulations, 2014, and the following definitions, shall apply:

- a) "Construction Regulations, 2014" means the Construction Regulations (GNR. 84 of 7 February 2014) published in terms of the OHS Act.
- b) "Contractor" means the Principal Contractor as defined in the Construction Regulations, 2014.
- c) "Employer" means the Client or his agent as defined in the Construction Regulations, 2014.
- d) "Employer's Agent" means the person/firm so named in the Contract Data whose function is to administer the Contract as agent of the Employer, acting through, if appointed, a Health and Safety Agent.
- e) "OHS Act" means the Occupational Health and Safety Act, 85 of 1993.
- f) "subcontractor" means any contractor employed by the Contractor to perform construction work.

#### H2 SCOPE

In terms of the OHS Act and the Construction Regulations, 2014 the Employer must provide the Contractor with a Health and Safety Specification, to which the Contractor must respond with a Health and Safety Plan for approval by the Employer.

The purpose of this Specification is to ensure that a contractor entering into a contract with the Employer maintains an acceptable level of compliance with regard to health and safety issues during the performance of the Contract. In this regard the Health and Safety Specification forms an integral part of the Contract and the Contractor shall ensure that his subcontractors and/or suppliers comply with the requirements of this Specification.

#### H3 INTERPRETATION

The OHS Act and its associated regulations shall have precedence in the interpretation of any ambiguity or inconsistency between it and this Specification.

Responsibility for health and safety relating to the Works lies with the Contractor as described in this Specification. Nothing stated in or omitted from this Specification shall in any way limit the Contractor's obligations and liabilities in terms of the OHS Act.

### H4 GENERAL REQUIREMENTS

The Contractor shall:

- a) create and maintain a safe and healthy work environment;
- b) execute the Works in a manner that complies with all the requirements of the OHS Act and all its associated regulations, and in so doing, minimize the risk of incidents occurring; and
- c) respond to the instructions issued by the Employer's Agent through the Employer's Agent's Representative, except in the case of a health and safety issue which requires the Contractor's immediate attention, in which case the Employer's Health and Safety Agent can issue an instruction directly to the Contractor.

#### H5 ADMINISTRATION

### H5.1 Application for construction work permit

Not applicable until 7 August 2015.

### H5.2 Notification of intention to commence construction work

The Contractor shall notify the Provincial Director of the Department of Labour in writing using the pro forma contained in Annexure 2 of the Construction Regulations, 2014 before construction work commences, and retain a copy of such notification in the health and safety file, if such work will:

- a) include excavation work;
- b) include working at a height where there is a risk of falling;
- c) include the demolition of a structure; or
- d) include the use of explosives to perform construction work.

The Contractor shall ensure that no work commences on an electrical installation which requires a new supply or an increase in electricity supply before the person who supplies or contracts or agrees to supply electricity to that electrical installation has been notified of such work.

The Contractor shall ensure that no asbestos work is carried out before the Provincial Director of the Department of Labour has been notified in writing.

## H5.3 Occupational Health and Safety Agreement

The Contractor shall enter into an Agreement with the Employer before the commencement of the Works on Site.

## H5.4 Good standing with the Compensation Fund or a licensed compensation insurer

The Contractor shall provide the Employer's Agent with a letter of good standing from the Compensation Commissioner or a licensed compensation insurer before the commencement of the Works on Site.

### H5.5 Emergency procedures

The Contractor shall submit for acceptance to the Employer's Agent a health and safety emergency procedure, which includes but is not limited to fire, spills, accidents and exposure to hazardous substances, which:

- a) identifies the key personnel who are to be notified of any emergency;
- b) sets out details of available emergency services, including contact particulars; and
   c) the actions or steps which are to be taken during an emergency.

The Contractor shall within 24 hours of an emergency taking place notify the Employer's Agent in writing of the emergency and briefly outline what happened and how it was dealt with.

## H5.6 Health and safety file

The Contractor shall ensure that a Health and Safety file, which shall include all documentation required in terms of the provisions of the OHS Act, the Construction Regulations, 2014 and this Health and Safety Specification, is open and kept on Site at all times.

The Health and Safety file shall be made available for inspection by any inspector, subcontractor, the Employer, the Employer's Agent, the Employer's Health and Safety Agent, or employee of the Contractor, upon the request of such persons.

The Contractor shall hand over the Health and Safety file to the Employer's Agent upon Works completion of the Contract and, if applicable, a certificate of compliance accompanied by a test report for the electrical installation in accordance with the provisions of the Electrical Installation Regulations, 1992.

## H5.7 Health and safety committee

Where applicable, the Contractor shall establish a health and safety committee, and shall convene health and safety meetings as provided for in the OHS Act.

The Employer's Agent or the Employer's Health and Safety Agent shall be invited to attend such meetings as an observer.

The Contractor shall ensure that minutes of the health and safety committee meetings are kept.

## H5.8 Inspections, formal enquires and incidents

The Contractor shall inform the Employer's Agent:

a) beforehand of inspections, investigations or formal inquiries of which he has been notified by an inspector; and b) as soon as reasonably practicable of the occurrence of an incident (as defined in the OHS Act) on the Site.

The Contractor shall record all incidents and notify the Employer's Agent of any incident, except in the case of a traffic accident on a public road, as soon as possible after it has occurred and report such incident to an inspector as designated in terms of the OHS Act.

The Contractor shall investigate all incidents and issue the Employer's Agent with copies of such investigations.

## H5.8 Personal protective equipment and clothing

The Contractor shall ensure that all workers are issued with the necessary personal protective clothing.

## H6 APPOINTMENTS

#### H6.1 Appointment of construction manager

The Contractor shall, prior to commencing the Works on Site, appoint a full-time competent person as the construction manager, with the duty of managing all construction work on a single site, including the duty of ensuring occupational health and safety compliance. In the absence of the construction manager an alternative must be appointed by the Contractor.

The Contractor may, having considered the size of the project, appoint, in writing, one or more assistant construction managers for different sections thereof.

No construction manager may manage any construction work on or in any construction site other than the Site in respect of which he or she has been appointed.

## H6.2 Appointment of construction supervisor, and health and safety officers

The construction manager shall appoint a competent employee(s) in writing as the construction supervisor(s) for the Site, who will be responsible for construction activities and ensuring occupational health and safety compliance on the construction site. The Contractor may, having considered the size of the project, appoint, in writing, one or more competent employees to assist the appointed construction supervisor(s).

The Contractor may, having considered the size of the project, the degree of danger likely to be encountered or the accumulation of hazards or risks on the Site, appoint a full-time or part-time construction health and safety officer in writing, who has in the Contractor's opinion the necessary competencies and resources, to assist the Contractor in the control of all health and safety related aspects on the Site.

The Contractor shall compile an maintain an organogram which outlines the roles and responsibilities of the construction supervisor's assistants, and health and safety officers.

#### H6.3 Other competent persons

The Contractor shall appoint in writing competent persons to supervise or inspect, as relevant, any of the following:

- a) temporary works operations;
- b) excavation work;
- c) demolition work;
- d) scaffolding work operations;
- e) suspended platform work operations;
- f) rope access work;
- g) material hoists;
- h) operation of bulk mixing plant;
- i) explosive activated fastening device;
- j) cranes;
- k) construction vehicles and mobile plant (equipment);
- I) the stacking and storage of articles on the Site; and
- m) fire equipment.

The Contractor shall appoint in writing competent persons to:

- n) induct employees in health and safety; and
- o) prepare a fall protection plan.

#### H6.4 Health and safety representative(s)

The Contractor shall appoint in writing, if necessary in terms of the OHS Act, a health and safety employee representative(s), whose duties shall be as described in the OHS Act.

#### H7 EMPLOYER'S HEALTH AND SAFETY AGENT

The Employer's Health and Safety Agent shall:

- a) audit the Contractor's compliance with the requirements of this Specification prior to the commencement of any physical construction activities on the Site;
- b) accept or reject all safety plans, giving reasons for rejecting such plans;
- c) monitor the effective implementation of all safety plans;
- d) conduct periodic and random audits on the health and safety file to establish compliance with the requirements of this Specification and the Contractor's health and safety plan; and
- e) visit the site at regular intervals to conduct site inspections, and based upon such visits issue, wherever necessary, any notices and/or instructions to the Contractor or any of the Contractor's subcontractors with a copy to the Employer's Agent and, where relevant, to the Contractor.

The Contractor shall invite the Employer's Health and Safety Agent to audit compliance with the requirements of this Specification before commencing with any new construction activity on the Site.

The Contractor shall permit the Employer's Health and Safety Agent to audit the Contractor's compliance with the approved Health and Safety Plan, and shall provide any assistance and/or documentation as may be required in this regard.

#### H8 CREATING AND MAINTAINING A SAFE AND HEALTHY WORK ENVIRONMENT

#### H8.1 General

The Contractor shall with respect to the Site and the construction works that are contemplated:

- a) cause a preliminary hazard identification to be performed by a competent person before commencing any physical construction activity;
- b) evaluate the risks associated with such work constituting a hazard to the health and safety of such employees and the steps that need to be taken to comply with the OHS Act; and
- c) as far as is reasonably practicable, prevent the exposure of such employees to the hazards concerned or, where prevention is not reasonably practicable, minimize such exposure.

The Contractor shall ensure that:

- all reasonably practicable steps are taken to prevent the uncontrolled collapse of any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work;
- e) no structure or part of a structure is loaded in a manner which would render it unsafe;
- f) relevant information, if any, provided by the designer of the structure is taken into account in the risk assessment; and
- g) the designer of any temporary works complies with the requirements of regulation 6(2) of Construction Regulations, 2014.

The Contractor shall carry out regular inspections and audits to ensure that the Works are being performed in accordance with the requirements of this Specification and the Contractor's health and safety plan

## H8.2 Risk assessment

The Contractor shall before the commencement of any construction work on Site and during such construction work, cause risk assessment(s) to be performed by a competent person appointed in writing. Such assessment(s) shall as a minimum:

- a) identify the risks and hazards to which persons may be exposed to;
- b) analyse and evaluate the identified risks and hazards based on a documented method;

- c) document a plan of safe work procedures, including the use of any personal protective equipment or clothing and the undertaking of periodic "toolbox talks" or inductions before undertaking hazardous work, in order to mitigate, reduce or control the risks and hazards that have been identified;
- d) provide a monitoring plan; and
- e) provide a review plan.

The Contractor shall ensure that as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated and addressed in the risk assessment.

The Contractor must review the relevant risk assessment -

- f) where changes are effected to the design and or construction that result in a change to the risk profile; or
- g) when an incident has occurred.

## H8.3 Health and safety plans

The Contractor shall prior to commencing the Works to which this Specification applies, submit to the Employer's Health and Safety Agent for approval a suitable and sufficiently documented health and safety plan, based on this Specification and the risk assessment that is conducted.

The health and safety plan shall include, but not be limited to, the following:

- a) The safety management structure, including the names of all designated persons such as the construction supervisor and any other competent persons;
- b) Safety method statements and procedures to be adopted to ensure compliance with the OHS Act; Construction Regulations, 2014 and this Health and Safety Specification;
- c) The provision and use of temporary services;
- d) Personal protective equipment, devices and clothing required;
- e) Emergency procedures;
- f) Provision of workers' welfare facilities;
- g) Induction and training;
- h) Arrangements for monitoring and control to ensure compliance with the safety plan; and
- i) Provision and maintenance of the health and safety file and all other relevant documentation.

The Contractor shall provide each subcontractor with the sections of this Health and Safety Specification pertaining to the construction work to be performed by that subcontractor. The subcontractor shall provide the Contractor with a health and safety plan pertaining to his work, for incorporation into the Contractor's health and safety plan.

The Contractor shall discuss the submitted health and safety plan with the Employer's Health and Safety Agent, modify such plan in the light of the discussions and resubmit the modified plan for approval.

The Contractor shall apply the approved health and safety plan from the date of its approval and for the duration of the Works to which this Specification applies.

The Contractor shall conduct periodic audits for compliance with the approved health and safety plan at intervals agreed upon with the Employer's Health and Safety Agent, but at least once every month.

The Contractor shall update the health and safety plan whenever changes to the Works are brought about.

## H8.4 Responsibilities towards employees and visitors

The Contractor shall, as far as is reasonably practicable, cause every employee to be made conversant with the hazards to his health and safety attached to any work which he has to perform, any article or substance which he has to produce, process, use, handle, store or transport and any plant or machinery which he is required or permitted to use, as well as with the precautionary measures which should be taken and observed with respect to those hazards or safe work procedures.

The Contractor shall ensure that all employees under his control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk assessment.

The Contractor shall cause a record of all induction training to be kept, which indicates the names, identity numbers and job description of all those who attended such training.

The Contractor shall not allow or permit any employee to enter the Site, unless such person has undergone health and safety induction training pertaining to the hazards prevalent on the Site at the time of entry.

The Contractor shall ensure that all of his employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner on the prescribed form.

The Contractor shall ensure that each visitor to the Site, save where such visitor only visits the site office and is not in direct contact with the construction work activities:

- a) undergoes health and safety instruction pertaining to the hazards prevalent on the Site; and
- b) is in possession of and using the necessary personal protective equipment.

The Contractor shall cause a record of all induction training to be kept in the Health and Safety file.

The Contractor shall provide suitable on-site signage to alert workers and visitors to health and safety hazards and requirements. Such signage shall include but not be limited to:

- c) prohibited unauthorized entrance;
- d) signage to indicate what personal protective equipment is to be worn; and
- e) activity related signs.

The Contractor shall not permit any person who is or who appears to be under the influence of intoxicating liquor or drugs, to enter or remain at a workplace.

## H8.5 Subcontractors

The Contractor may only subcontract work in terms of a written subcontract and shall only appoint a subcontractor should he be reasonably satisfied that such a subcontractor has the necessary competencies and resources to safely perform the work falling within the scope of the subcontract.

The Contractor shall ensure that all of his obligations in respect of subcontractors in terms of the Construction Regulations, 2014 are adhered to.

#### H8.6 Work permits and wayleaves

The Contractor shall be responsible for obtaining all the wayleaves, permissions or permits applicable to working near any existing services or other infrastructure on Site, and shall abide by the safety conditions imposed by such wayleaves, permissions or permits.

### H8.7 Access to the Site

The Contractor shall ensure that access to the Site is strictly controlled and that, where possible, only authorised persons are permitted onto the Site.

The Contractor shall control the access to Site of his own personnel and equipment, and that of his subcontractors and suppliers, in such a way so as to ensure that the safety of all public pedestrian and vehicular traffic is not compromised.

## H8.9 First aid and emergency procedures

The Contractor shall, where more than five employees are employed at a workplace, provide a first aid box or boxes at or near the workplace, which shall be available and accessible for the treatment of injured persons at that workplace. Such first aid boxes shall contain suitable first aid equipment.

The Contractor shall ensure, where there are more than 10 employees employed on the Site, that for every group of up to 50 employees at that workplace at least one person is readily available during normal working hours who is in possession of a valid certificate of competency in first aid.

The following information shall be conspicuously posted in the offices of the Contractor for the duration of the Contract:

- a) Telephone numbers of emergency services;
- b) The names of all safety representatives and safety officers; and
- c) The name(s) of the competent first aider(s).

The Contractor shall post, in prominent places, notices indicating where the first aid box(es) is/are kept, as well as the name of the person in charge of the first aid box.

## H8.10 Housekeeping

H8.8

The Contractor shall ensure, *inter alia*, that suitable housekeeping is continuously implemented on the Site, including provision for the:

- a) removal of scrap, waste and debris, and materials which are no longer required for use, at appropriate intervals (in accordance with Construction Regulation 27); and
- b) proper stacking and storage of materials and equipment (in accordance with Construction Regulations 27 and 28).

## H8.11 Fire precautions

The Contractor shall ensure that all appropriate measures are taken to minimise the risk of fire and that appropriate procedures and equipment are in place to deal with the event of a fire, all in accordance with Construction Regulation 29 and the Environmental Management Specification in Part C3.5 of the Scope of Work.

#### H8.12 Facilities for workers

The Contractor shall provide ablution facilities and eating areas all as specified in the Environmental Management Specification in Part C3.5 of the Scope of Work.

# H9 GENERAL HAZARDS AND RISKS APPLICABLE TO WORK REQUIRED IN TERMS OF THIS TERM TENDER

- H9.1 Existing Site conditions
- H9.2 Information provided by the designer (CR 6(1))
- H9.3 Environmental hazards
- H9.4 Traffic hazards
- H9.5 Construction materials (hazardous substances)
- H9.6 Fall protection (working at heights) (CR 10)
- H9.7 Structures (CR 11)
- H9.8 Temporary works (CR 12)
- H9.9 Excavation work (CR 13)

- H9.10 Demolition work (CR 14)
- H9.11 Tunneling (CR 15)
- H9.12 Scaffolding (CR 16)
- H9.13 Suspended platforms (CR 17)
- H9.14 Rope access work (CR 18)
- H9.15 Material hoists (CR 19)
- H9.16 Bulk mixing plant (CR 20)
- H9.17 Explosive actuated fastening device (CR 21)
- H9.18 Cranes (CR 22)
- H9.19 Construction vehicles and mobile plant (equipment) (CR 23)
- H9.20 Electrical installations and machinery (CR 24)
- H9.21 Flammable liquids (CR 25)
- H9.22 Water environments (CR 26)
- H9.23 Overhead Work (CR 27(g))
- H9.24 Confined spaces
- H9.25 Other hazards...

## **CITY OF CAPE TOWN**

## WATER AND WASTE: WATER AND SANITATION

## CONTRACT NO. 95Q/2020/21

TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

## C3.6 Annexes

## CONTENTS

- Annex 1: Monthly Project Labour Report
- Annex 2: B-BBEE Sub-Contract Expenditure Report
- Annex 3: Joint Venture Expenditure Report

## Annex 4: Targeted Labour Contract Participation Expenditure Report

Annex 5: Targeted Enterprises Contract Participation Expenditure Report

## CITY OF CAPE TOWN MONTHLY PROJECT LABOUR REPORT



#### Instructions for completing and submitting forms

#### General

- 1 The Monthly Project Labour Reports must be completed in full, using typed, proper case characters; alternatively, should a computer not be available, handwritten in black ink.
- 2 Incomplete / incorrect / illegible forms will not be accepted.
- 3 Any conditions relating to targeted labour stipulated in the Contract (in the case of contracted out services or works) shall apply to the completion and submission of these forms.
- 4 This document is available in Microsoft Excel format upon request from the City's EPWP office, tel 021 400 9406, email EPWPLR@capetown.gov.za.

#### Project Details

- 5 If a field is not applicable insert the letters: NA
- 6 Only the Project Number supplied by the Corporate EPWP Office must be inserted. The Project Number can be obtained from the Coordinator or Project Manager or from the e-mail address in point 4 above.
- 7 On completion of the contract or works project the anticipated end date must be updated to reflect the actual end date.

#### Beneficiary Details and Work Information

8 Care must be taken to ensure that beneficiary details correspond accurately with the beneficiary's ID document.

- 9 A new beneficiary is one in respect of which a new employment contract is signed in the current month. A certied ID copy must accompany this labour report on submission.
- 10 Was the beneficiary sourced from the City's job seeker database?
- 11 The contract end date as stated in the beneficiary's employment contract.
- 12 Where a beneficiary has not worked in a particular month, the beneficiary's name shall not be reflected on this form at all for the month in question.
- 13 Training will be recorded separately from normal working days and together shall not exceed the maximum of 23 days per month
- 14 Workers earning more than the maximum daily rate (currently R450 excluding any benefits) shall not be reflected on this form at all.

#### Submission of Forms

- 15 Signed hardcopy forms must be scanned and submitted to the City's project manager in electronic (.pdf) format, together with the completed form in Microsoft Excel format.
- 16 Scanned copies of all applicable supporting documentation must be submitted along with each monthly project labour report. Copies of employment contracts and ID documents are only required in respect of new beneficiaries.
- 17 If a computer is not available hardcopy forms and supporting documentation will be accepted.

## PROJECT DETAILS

#### Numbers in cells below e.g (6) refer to the relevant instruction above for completing and submitting forms

CONTRAC PROJECT		RKS (6)								WP SUPPLI DJECT NUN												
DIRECTO	RATE:								DEF	PARTMENT	1											
CONTRAC	CONTRACTOR OR					CO	CONTRACTOR OR VENDOR															
VENDOR	DR NAME:				E-M	E-MAIL ADDRESS:																
CONTRAC		/ENDOR							COI	NTRACTOR	OR VEND	OOR	CELL									
CONTACT	PERSON	:							TEL	NUMBER:			WORK									
PROJECT	LABOUR	REPORT C	URRENT N	MONTH (ma	ark with "X"	)			•						-							
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR										

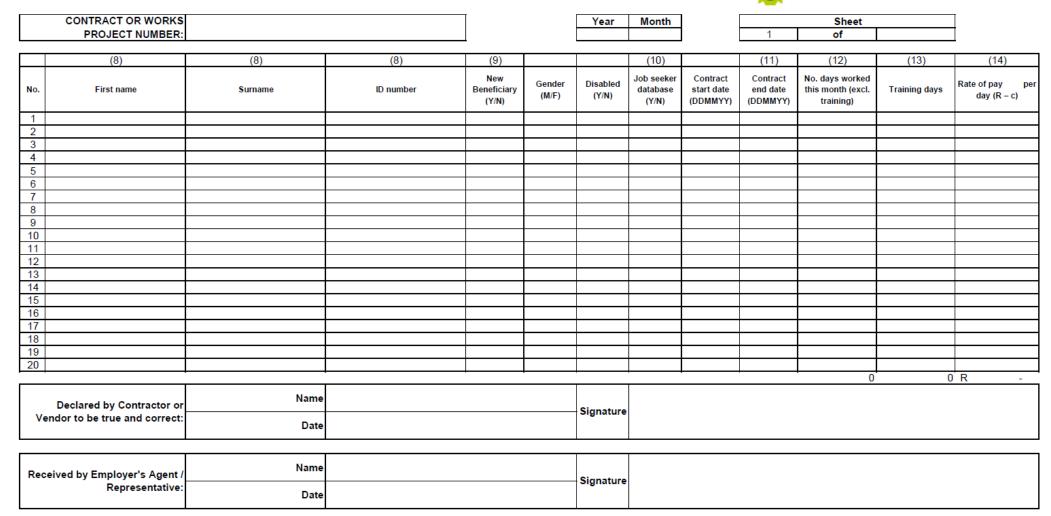
ACTUAL	ACTUAL START DATE (yyyy/mm/dd)									ANTICIPATED / ACTUAL END DATE (yyyy/mm/dd)						(7)		
TOTAL P	OTAL PROJECT EXPENDITURE / VALUE OF WORK DONE TO-DATE (INCLUDING ALL COSTS, BUT EXCLUDING VAT)																	
R																		

## MONTHLY PROJECT LABOUR REPORT



ANNEX 1 (continued)

#### BENEFICIARY DETAILS AND WORK INFORMATION



## **CITY OF CAPE TOWN**

CONTRACT NO. AND NAME:

CONTRACTOR:

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

Value of the contract (as defined in the <b>Preference Schedule</b> ) ( <b>P</b> *)	R	B-BBEE Sta	tus Level of Prime Contracto	r	
Name of Sub-contractor (list all)	B-BBEE Status Level of Sub-contractor <sup>1</sup>	Total value of Sub-contract (excl. VAT) <sup>1</sup>	Value of Sub-contract work to date (excl. VAT) <sup>1</sup>	Value of Sub-contra Sub-contractors with BBEE Status Level t Contracto	n a lower B- than Prime
Sub-contractor A		R	R	R	
Sub-contractor B		R	R	R	
Sub-contractor C		R	R	R	
<sup>1</sup> Documentary evidence to be provided			Total:	R	
			Expressed as a percentage of <b>P</b> *		%
Signatures					

Declared by Contractor to be true and correct:	 Date:	
Verified by Employer's Agent / Representative:	Date:	

## **CITY OF CAPE TOWN**

CONTRACT NO. AND NAME:

CONTRACTOR:

## JOINT VENTURE EXPENDITURE REPORT BASED ON PAYMENT CERTIFICATE NO. .....

Value of the contract (as defined in the <b>Preference Schedule</b> ) ( <b>P</b> *)	R	B-BBEE Status Level of Joint Venture	

Name of Joint Venture partner (list all)	B-BBEE Status Level of each JV partner as at contract award	Percentage contribution of JV partner per JV Agreement <sup>1</sup> A	Total value of JV partner's contribution (excl. VAT) <sup>1</sup> B = A% x P*	Value of JV partner's contribution to date (excl. VAT) <sup>1</sup> C	Value of JV partner's contribution as a percentage of the work executed to date D = C/P*x100
JV Partner A		%	R	R	%
JV Partner B		%	R	R	%
JV Partner C		%	R	R	%

<sup>1</sup>Documentary evidence to be provided

**Signatures** 

 Declared by Contractor
 Date:

 to be true and correct:
 Date:

 Verified by Employer's
 Date:

 Agent / Representative
 Date:

## **CITY OF CAPE TOWN**

CONTRACT NO. AND NAME:

CONTRACTOR:

## TARGETED LABOUR CONTRACT PARTICIPATION EXPENDITURE REPORT BASED ON CERTIFICATE NO. .....

Value of the contract (as defined in the $\ensuremath{\text{Preference Schedule}}\)$ $(\ensuremath{\text{P}^*}\)$	R		Specified Targeted Labour Contract Participation Goal	%
---	---	--	---	---

Name of Contractor/Sub-contractor (list all)	Total previous expenditure on wages in respect of targeted labour	Net Amount for this month <sup>1</sup>	Total expenditure on wages in respect of targeted labour
Contractor	R	R	R
Sub-contractor A	R	R	R
Sub-contractor B	R	R	R
<sup>1</sup> Documentary evidence to be provided		Total:	R
		Expressed as a percentage of <b>P</b> *	%

## **Signatures**

Declared by Contractor to be true and correct:	Date	
Verified by Employer's Agent / Representative	Date	
Contract Part C3: Scope of Work Reference No. 95Q/2020/21	103	C3.6 Annexes

## **CITY OF CAPE TOWN**

CONTRACT NO. AND NAME:

CONTRACTOR:

## TARGETED ENTERPRISES CONTRACT PARTICIPATION EXPENDITURE REPORT BASED ON CERTIFICATE NO.

Value of the contract (as defined in the $\ensuremath{\text{Preference Schedule}}\)$ $(\ensuremath{\text{P}^*}\)$	R		Specified Targeted Enterprises Contract Participation Goal	%
---	---	--	--	---

Name of targeted enterprise (list all)	Total previous expenditure (excl. VAT) to targeted enterprises	Net Amount for this month <sup>1</sup>	Total expenditure (excl. VAT) to targeted enterprises
Targeted Enterprise A	R	R	R
Targeted Enterprise B	R	R	R
Targeted Enterprise C	R	R	R
<sup>1</sup> Documentary evidence to be provided	•	Total:	R
	%		

#### **Signatures**

Declared by Contractor to be true and correct:			
Verified	by	Employer's	

Date

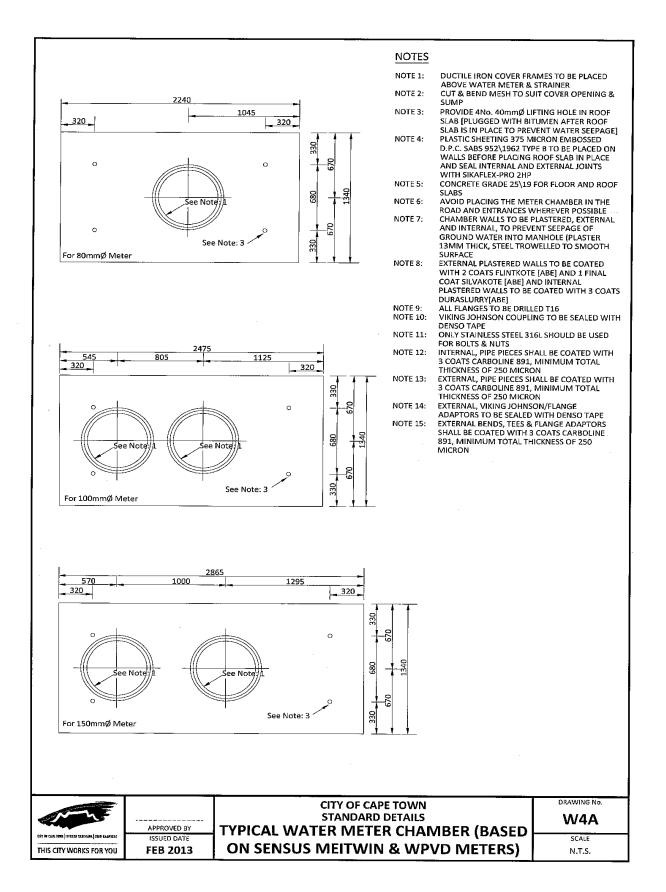
Verified by Employer's Agent/ Employer's Agent's Contract Part C3: Scope of Work Reference No. 95Q/2020/21

Date \_\_\_\_\_

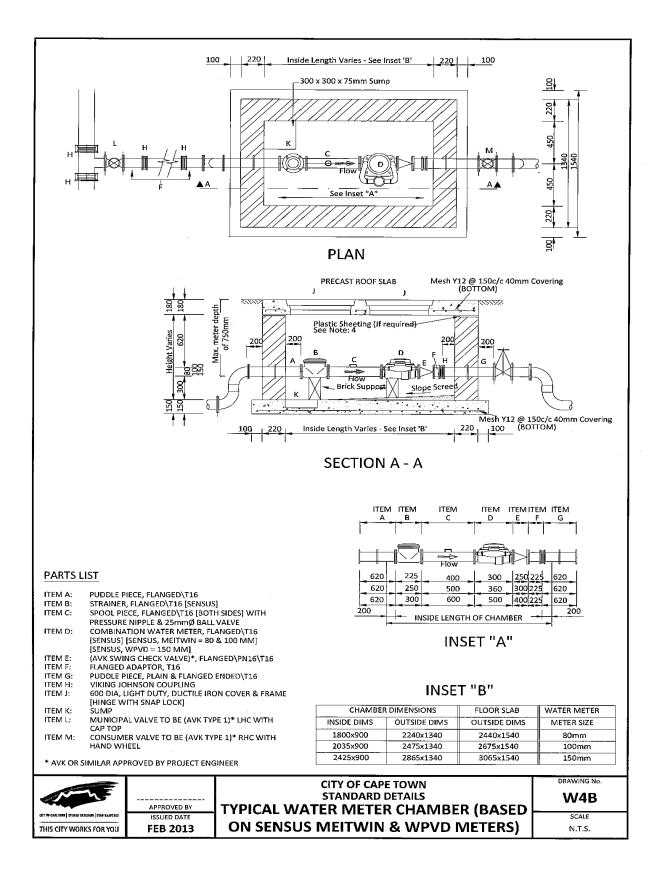
104

C3.6 Annexes Representative:

## ANNEX 6.1: CITY OF CAPE TOWN – TYPICAL WATER METER CHAMBER CONNECTION



## ANNEX 6.2: CITY OF CAPE TOWN – TYPICAL WATER METER CHAMBER CONNECTION



# Part C4: Site information

		Pages
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## **CITY OF CAPE TOWN**

## WATER AND WASTE: WATER AND SANITATION

## CONTRACT NO. 95Q/2020/21

# TERM TENDER FOR THE REPLACEMENT OF WATER METERS WITH NOMINAL BORE BETWEEN 50 MM - 150 MM AND INSTALLATION OF NEW CONNECTIONS

## C4 Site Information

## CONTENTS

- 1. GENERAL
- 2. WORKS PROJECTS

## 1. GENERAL

The sites for the Works are those areas which may be identified within the four areas (Area 1, Area 2, Area 3 and Area 4) in the City of Cape Town municipal area in which Works Projects are to be executed.

## 2. WORKS PROJECTS

Site specific information will be specified, as required, in the Works Project contract document for a particular Works Project. An example of such a Works Project Document is available upon request to the Employer.

## CITY OF CAPE TOWN FOUR GEOGRAPHICAL AREAS

