



Request for Quotation for to maintain the serviceability of the airport Water Reticulation, Sewerage and Stormwater infrastructure at Cape Town International Airport

Airport : Cape Town

Tender Number: : Rfq 70490

Issue Date : 13 May 2022

Closing Date : 10 June 2022 at 16:00

Briefing Session Date and Time : Non-compulsory site briefing 24 May 2022 at 10am

Venue : Time 10am -10:30 via teams



SECTION 1: INSTRUCTIONS TO BIDDERS

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• Access to RFQ documents

Kindly print and complete

Submission of bid documents

The envelopes containing bid documents must have on the outside, the bidder's return address, the full description of the tender, tender number and the details of the Tender Management Office/Procurement department where the bid will close. The documents must be signed and completed by a person who has been given authority to act on behalf of the bidder. The bottom of each page of the bid documents must be signed or stamped with the bidder's stamp as proof that the bidder has read the tender documents. Bid documents must be submitted on or before using the following method.

- Tender box: N/A

The Tender box is located at:N/A

- Email submissions: sellina.tomsana@airports.co.za

The bid documents must be sent to the following email address below:

- Proposals must be in an electronic copy of the bid documents. The original copy will be the legal and binding copy, in the event of discrepancies between any of the submitted documents; the original copy will take precedence.

• Alternative Bids

As a general rule, ACSA only accepts bids which have been prepared in response to the tender invitation. However, for this tender alternative bids will be accepted provided the alternative bid is accompanied by the original bid response which materially complies with the specifications of this tender invitation. The alternative bid will only be considered where the bidder has submitted together with its



alternative bid, an offer which materially complies with the requirements of this tender. Alternative bids will also be evaluated using the pre-determined evaluation criteria stipulated in this tender document.

1.4 Late Bids

Bids which are submitted after the closing date and time will not be accepted

1.5 Clarification and Communication-

Name:

Designation:

Tel:

Cell:

Email:

Request for clarity or information on the tender may only be requested from 25 May until 07 June 2022 at 16:00

Any responses to queries or for clarity sought by a bidder will also be sent to all the other entities which have responded to the Request for Proposal/Quotation/Information invitation.

Bidders may not contact any ACSA employee on this tender other than those listed above. Contact will only be allowed between the successful bidder and ACSA Business Unit representatives after the approval of a recommendation to award this tender. Contact will also only be permissible in the case of pre-existing commercial relations which do not pertain to the subject of this tender.

1.6 Compulsory Briefing Session-

A compulsory briefing /as below details Non-Compulsory site briefing will be held 24 May at 10am-10:30 If you interested to attend kindly send an email requesting a link

Briefing/Site Inspection Session Requirements	Detail
Date	
Time	
Venue	



Access to Restricted Area, Cargo, Airside, Terminal	
Documentation, e.g. ID, Temporary Permit, etc	Identity Document
Personal Protective Equipment, Safety boots	Reflective Jackets, Masks and Strict Covid 19 Regulations will be followed: Social Distance, Sanitizing.

1.7 Bid Responses

Bid responses must be strictly prepared and returned in accordance with this tender document. Bidders may be disqualified where they have not materially complied with any of ACSA's requirements in terms of this tender document. Changes to the bidder's submission will not be allowed after the closing date of the tender. All bid responses will be regarded as offers unless the bidder indicates otherwise. No bidder or any of its consortium/joint venture members may have an interest in any of the other bidder/joint venture/consortium participating in this bid.

1.8 Disclaimers

- It must be noted that ACSA may:
- Award the whole or a part of this tender;
- Split the award of this tender;
- Negotiate with all or some of the shortlisted bidders;
- Award the tender to a bidder other than the highest scoring bidder where objective criteria allow; and/or
- Cancel this tender.

1.9 Validity Period

(*Please ensure that the validity period stated below will allow ACSA to properly evaluate and finalise the process)

ACSA requires a validity period of a hundred and twenty (120) business/working days for this tender.

During the validity



period the prices which have been quoted by the bidder must remain firm and valid. It is only in exceptional circumstances where ACSA would accommodate a proposal to change the price.

1.10 Confidentiality of Information

ACSA will not disclose any information disclosed to ACSA through this tender process to a third party or any other bidder without any written approval from the bidder whose information is sought. Furthermore,

ACSA will not disclose the names of bidders until the tender process has been finalised.

Bidders may not disclose any information given to the bidders as part of this tender process to any third party without the written approval from ACSA. In the event that the bidder requires to consult with third parties on the tender, such third parties must complete confidentiality agreements, which should also be returned to ACSA with the bid.

1.11 Hot – Line

ACSA subscribes to fair and just administrative processes. ACSA therefore urges its clients, suppliers and the general public to report any fraud or corruption to:

Airports Company South Africa TIP-OFFS ANONYMOUS

Free Call: 0800 00 80 80

Free Fax: 0800 00 77 88

Email: acsa@tip-offs.com

SECTION 2: LOCAL CONTENT AND PRODUCTION

2.1 Introduction

In terms of the Preferential Procurement Policy Framework Act, 5 of 2000 (PPPFA) and the regulations thereto, bids in respect of goods, services or works that have been designated for local production and content, must contain a specific bidding condition that only locally produced goods, services or works or locally manufactured goods with a stipulated minimum threshold for local content and production will be considered. This tender falls within a designated sector and ACSA is therefore required to stipulate the minimum threshold for local production and content. The minimum threshold for local content and production for this tender is _____ of the bid price. Any bidder who fails to meet the minimum threshold for local production and content will be disqualified from the process. To this end, bidders must complete a declaration certificate for local content and production (SBD 6.2) which is Annexure of this tender document. Failure to return a completed SBD 6.2 form will make a bidder liable for disqualification.

2.2 Calculation of local content and production



Local content means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place. Imported content means the portion of the bid price represented by the cost the cost of components, parts or materials which have been or are still imported (whether by the supplier or its sub-contractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs, such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African port of entry. The South African Bureau of Standards (SABS) approved technical specification number SATS 1286:201x will be used to calculate local content. The formula to be used to calculate local content is as follows:

$$LC = 1 \left(\frac{x}{y} \right) \times 100$$

Where:

X represents imported content

Y represents bid price excluding value added tax

Prices referred to in the determination of x will be converted to Rand (ZAR) by using the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid.

2.3 Declaration certificate for local production and content (SBD 6.2)

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

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011 and the SABS approved technical specification number SATS 1286:201x.

- **General Conditions**
- Preferential Procurement Regulations, 2011 (Regulation 9(1) and 9(3) make provision for the promotion of local production and content.
- Regulation 9(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- Where necessary, for bids referred to in paragraphs 2.4.2, a two-stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.



- A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- A bid will be disqualified if:
 - The bidder fails to achieve the stipulated minimum threshold for local production and content indicated in paragraph 2.6 below; and
 - The completed SBD 6.2 form together with its declaration, is not submitted as part of the bid documentation.
- **Definitions**
- “Bid” means a written offer in a prescribed or stipulated form in response to an invitation by ACSA for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- “Bid Price” price offered by the bidder, excluding value added tax (VAT);
- “Contract” means the agreement that results from the acceptance of a bid by an ACSA;
- “Designated sector” means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- “Duly Sign” means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).
- “Imported Content” means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- “Local Content” means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- “Stipulated Minimum Threshold” means that portion of local production and content as determined by the Department of Trade and Industry; and
- “Sub-Contract” means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.



2.6 The stipulated minimum threshold(s) for local production and content for this bid is/are as follows:

<u>Description of service, works or goods</u>	<u>Stipulated minimum threshold</u>
_____	_____ %
_____	_____ %
_____	_____ %

2.7 Does any portion of the services, works or goods offered have any imported content? YES/NO

- If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 2.3 above must be the rate(s) published by SARB for the specific currency at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid.

The relevant rates of exchange information is accessible on **www.reservebank.co.za**.

The rate(s) of exchange against the appropriate currency is as follows:

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

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

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

IN RESPECT OF RFQ No. -

ISSUED BY: (Airports Company South Africa SOC

Ltd): _____

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



I, the undersigned, _____ (full names),

do hereby declare, in my capacity as

_____ of _____ (name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286.
- (c) The local content has been calculated using the formula given in clause 3 of SATS 1286, the rates of exchange indicated in paragraph 2.3 above and the following figures:

Bid price, excluding VAT (y)	R...
Imported content (x)	R...
Stipulated minimum threshold for Local content (paragraph 2.6 above)	
Local content % , as calculated in terms of SATS 1286	

If the bid is for more than one product, a schedule of the local content by product shall be attached.

- (d) I accept that the Airports Company South Africa SOC Ltd has the right to request that the local content be verified in terms of the requirements of SATS 1286.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286, may result in the Airports Company South Africa SOC Ltd imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Preferential Procurement Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No.1: _____

DATE: _____



WITNESS No 2: _____

DATE: _____

SECTION 3: BACKGROUND, PURPOSE AND SCOPE OF WORK

DESCRIPTION OF THE WORKS

C3.1.1 EMPLOYER'S OBJECTIVES

The objective is to maintain the serviceability of the airport Water Reticulation, Sewerage and Stormwater infrastructure at Cape Town International Airport in a sustainable manner at the lowest operating and maintenance costs while ensuring compliance to general safety and aviation related legislation. The Contractor will be appointed directly by the Airports Company of South Africa.

C3.1.2 OVERVIEW OF THE WORKS

The Contractor will maintain the Water Reticulation, Sewerage and Stormwater infrastructure at CTIA which is located on the landside and airside of the airport. the specifications and requirements in this document comprise the description of the Works.

NOTE: It is the responsibility of the contractor to familiarise himself with the site in order to accurately assess the site conditions and fully comprehend the nature and scope of work required.

C3.1.3 EXTENT OF THE WORKS

The contractor will maintain the Water Reticulation, Sewerage and Stormwater system at CTIA. Work shall include maintaining all airport services both on the airside and land side.

The contractor will be required to:

- a. **Maintain all Airport water reticulation network**, work may include:
 - Repairs and maintenance work on all portable water pipes with different sizes, pipe sizes may range between 15 mm to 500 mm diameter.
 - Repair or replacement of all water related valves. Checking, testing, calibrating, adjusting and repairing of pressure reducing valves.



- Repair and replacement of all water pipe related equipment such as different sized couplings.
- Repair and maintenance of water related access chambers.
- Maintenance of thrust blocks and water associated concrete work.
- Repair and maintenance of firefighting equipment i.e., fire hydrants and related equipment as may be pointed out by ACSA.
- Repair and maintenance of irrigation system and associated equipment.
- And maintaining of all other water related system equipment that may be pointed out to the contractor by ACSA.
- Capture samples and test stormwater or portable water for quality as may be required by ACSA.
- The contractor may sometimes be requested to assist with the maintenance or repairs of Mechanical equipment such as pumps and other equipment associated with water reticulation.
- Upgrading water distribution systems where necessary.
- Introduction of additional connections to water distribution system.
- Removing unauthorised connections.
- Providing tests for water distribution system as may be required by ACSA.
- Conducting CCTV surveys and providing detailed reports to ACSA.
- Assessing, calibrating, maintaining and replacing of water meters. Water meters range between sizes of 15mm diameter to 450mm diameter. Work may including cleaning, maintaining and replacement of strainers.
- Water storages are to be emptied and cleaned out, repaired, sealed and put back into operation. Ball float or filling valves to these tanks, are to be inspected, assessed, serviced and repaired where required.



- Water pipes will be sampled for corrosion and scaling. The Service Manager will evaluate actions to be taken if the outcome of this sampling requires attention.
 - Pressure test and sterilise repaired new installation and equipment.
 - Reinstate and making good of walls, tiles, concrete structures, pavement, holes, surface, etc. to an acceptable level where repairs have been executed. All completed works shall be inspected by an Service Manager or ACSA representative.
 - Maintenance of rainwater and groundwater plants as may be requested by the Service Manager. Detailed scope of work shall be provided on each task order issued by the Service Manager.
- b. **Maintain all sewerage reticulation networks**, the network may include pipe sizes ranging between 110mm to 400mm diameter pipe depending on ACSA requirements.
- Maintain all sewerage related couplings and sewer related equipment as may be required by ACSA.
 - Repair and maintenance work on all sewerage related inspection chambers and covers.
 - Resolving blockages, jet cleaning of blocked lines and cleaning of sewer floods as may be directed by ACSA.
 - Maintenance on sewer pump station, work shall exclude all mechanical equipment, however, work shall be done as may be directed by ACSA meaning that the contractor may sometimes be requested to assist with the maintenance of mechanical equipment such as pumps and other equipment associated with sewerage.



- c. Maintain stormwater reticulation system, pipe sizes may range between 110mm to 600mm diameter or culvert pipes up to 2 m wide X 2 m high depending on ACSA requirements.
 - Stormwater pipes may be plastic pipe or concrete pipes depending on the requirements. Maintain all stormwater inlet structures and inspection chambers.
 - Repair and maintain all concrete related stormwater structures.
 - Resolving blockages and jet cleaning of blocked lines.
 - Attend to stormwater floods and blockages as may be required by ACSA.
- d. Attend to water reticulation, sewerage, and stormwater civil works.
- e. Cleaning and removing waste by use of honey sucker from sewer and storm water sumps and dumping waste on to approved dumping sites. Dumping slips shall be submitted to ACSA at the end of each dumping activity, dumping slips shall be in a format as may be preferred by ACSA.
- f. Emptying and cleaning conservancy/septic tanks and dumping waste on to approved dumping sites. All dumping certificates will be required by ACSA from the contractor.
- g. Cleaning of sewer pump stations as may be required by ACSA. **Description of sumps and pump station is provided on table 1 below.**
- h. Cleaning and maintenance of storm water channels, attenuation system and detention ponds.
- i. Doing maintenance work of stormwater detention ponds. ACSA detention ponds are described on the table 2 below.
- j. Repair and maintenance ACSA water reservoirs, work shall include maintaining of all water related/reservoir equipment but excluding mechanical and electrical equipment's.



- k. Inspecting of water reticulation, sewerage and stormwater pipelines by making use of CCTV cameras, ACSA will request detailed report for reviewing and filing.
- l. Attend to ADHOC work as may be requested by the Service Manager.

The following tables describe approximate sizes of ACSA ponds, sewer pump station or sumps and stormwater pump stations or sumps.

Item	Description	Structure	Sizes – all sizes here are based on estimation, bidders may need to do visual inspection and verify sizes mentioned below.
1	Robert Sobukwe SW channel.	Stormwater Channel	400 m long X 150 m x 1.2m wide.
2	Borcherds Quarry	Mini detention pond	400m x 100m x 1 m deep or more.
3	Road Lodge Pond	Detention Pond	Inlet structure ± 10m X 10m X 500mm deep. The channel is approximately 200m long and outlet structure.
4	ACSA Pond	Detention Pond	± 460m ²
5	Cargo SW channel	Stormwater channel	± 100m

Table 2: stormwater ponds and open stormwater channels

Item	Description	Structure	Size: all sizes here are based on estimation, bidders may need to do visual inspection and verify sizes mentioned below.
1	SOB sewer sump	Sewer sump	6 m deep X 3 m dia
2	Fox 5 conservancy tank	Sewer sump	6 m deep X 3 m dia
3	VIP lounge sewer sump (on the airside)	Sewer sump	6 m deep X 3 m dia
4	Oval office park sewer sump	Sewer sump	6 m deep X 3 m dia
5	Terminal 5	Sewer sump	
6	Execujet SW sump	SW sump	6 m deep X 4.5 m dia

7	Fox 5 SW sump	SW sump	4 X 3 x 4 to 6 m deep
8	Freight road underpass SW sump	SW sump	6 m deep X 4.5 m dia
9	Egoli pump-station	Sewer	6 m deep X 4m x 4m
10	Lima SW (on the airside)	SW	6 m deep X 3 m dia
11	Mike SW (on the airside)	SW	6 m deep X 3 m dia
12	Hotel taxiway sewer sump	Sewer	6 m deep X 3 m dia
13	Avis sewer sump	Sewer	6 m deep X 3 m dia
14	Europcar sewer sump	Sewer	4 m deep X 3 m dia
15	Swartklip conservancy tank 1	Sewer	3m deep x 3m x 3m
15	Swartklip conservancy tank 1	Sewr	3m deep x 3m x 3m

Table 2: Sewer sumps and stormwater sumps

3.1.6 Maintenance Specification

3.1.6.1 The maintenance activities include the following:

- Preventative maintenance, defined as any planned overhaul, replacement, inspection, or tests conducted with the purpose of preventing specifically defined failures through maintaining the condition of the infrastructure or assessing its condition for the purposes of corrective maintenance.
- Corrective maintenance is defined as the activity following a preventative maintenance inspection, test, or condition assessment with the purpose of correcting a problem or restoring the condition before the failure occurred.
- Breakdown maintenance is defined as that maintenance which was unforeseen and is necessary to restore the serviceability of the infrastructure.

3.1.6.2 Technical Specification

This specification covers the material, equipment, methods, testing and work required for the repair of the existing water distribution networks, sewerage and stormwater services.

Such distribution networks may comprise:

1. Water
 - a) Primary and secondary distribution pipelines;
 - b) Valves;
 - c) Bulk water meters;



- d) Domestic water meters;
- e) Chambers;
- f) Pump stations for water;
- g) And reservoirs.

- 2. Sewer
 - h) Primary and secondary distribution pipes for sewer;
 - i) Pump stations for sewer;
 - j) Valves for sewer;
 - k) Chambers for sewer;
 - l) Sewer sumps.

- 3. Stormwater
 - m) Primary and secondary distribution pipes for stormwater;
 - n) Open channels and inlet chambers or catch-pits;
 - o) Valves for stormwater pipes;
 - p) Pumps station for stormwater;
 - q) Stormwater ponds.
 - r) This specification shall act as guideline for repairs required at specific events.



3.1.6.2.1 Standard specifications:

General standard specifications, regulations and codes

The following codes of practice shall be read with the specification and shall form part thereof:

SANS 1200 A – General

SANS 1200 AA – General (Small works)

SANS 1200 D – Earthworks

SANS 1200 DA – Earthworks (Small works)

SANS 1200 DB – Earthworks (Pipe Trenches)

SANS 1200 G – Concrete (Structural)

SANS 1200 GA – Concrete (Small works)

SANS 1200 L – Medium pressure

SANS 1200 LB – Bedding (pipes)

SANS 1200 LF – Erf connections

SANS 1200 LK - Valves

SANS 1200 LN - Steel pipes and lining

Water tightness test

For the requirements and tests for water tightness of reinforced concrete reservoirs and elevated storage facilities, refer to Clause 3.3.38 of SANS 0120:1980 – Part 2 section G.

3.1.6.2.2 Manufacturer specification, codes of practice and installation instructions

All equipment and materials shall be installed, serviced, and repaired in accordance with the manufacturer's specification, instructions and codes of practice. The Service Manager shall review and approve all specifications and codes of practice prior to the actual installation.

3.1.6.2.3 Municipal Regulations, Laws and By-Laws

All municipal regulations, laws, by-laws and special requirements of local Authority shall be adhered to unless otherwise specified.

3.1.6.2.4 As-Built Information

The Contractor shall at the start of the Contract be given all available as-built information.

The contractor shall be responsible for creating and managing its own inventory list.

The Contractor shall at times be required to provide As-Built information for completed sections of work. The arrangement and management of the As-Built information shall be agreed between the Service Manager and the Contractor/Contractor's Representative.



3.1.6.2.5 Execution of Repair Work

Areas that require work shall be identified by the Service Manager; work shall then be discussed with the Contractor. The Contractor shall inspect and assess the extent of work, with good understanding of work the Contractor will then agree with the Service Manager the construction method and specification. Work will only commence once an approval has been received from the Service Manager.

All the systems, installations and equipment shall be maintained as per the agreed Specification between the Service Manager and the Contractor.

All repairs shall be executed using approved materials and equipment suitable to the systems and/or installations they serve.

All material to comply fully with the requirements of specification for each installation.

The said repairs shall be executed in accordance with the relevant codes of practice, standards, regulations, municipal laws and by-laws, manufacturer's specifications and codes of practice and all additional and particular specifications included in this document.

All repairs shall be executed within the approved period for repairs to be agreed at the start of the contract period. All new equipment, materials and system shall be furnished with a written guarantee with a defects liability period of 12 months from date of completion of repairs. These guarantees shall be furnished in favour of the Airport. On completion of the required and specified repair work the systems, installations and equipment shall be commissioned and handed over to the satisfaction of the Service Manager.

3.1.6.2.6 Construction

3.1.6.2.6.1 Request for Work

The request for work shall be issued to the Contractor by the Service Manager/His Representative. For all emergency work the response time after the Contractor has received a call to attend work from the Service Manager/His representative is 45 minutes, meaning that the Contractor needs to be at the airport working on the breakage within 45 minutes.

- (a) Excavation, all excavation shall be as set out on SANS 1200 DB.
- (b) Where excavation is to be carried out through asphalt premix or concrete, the asphalt/concrete shall be cut neatly and vertically with approved sawing equipment before the asphalt/concrete is removed.
- (c) Disposal of material - where excavated material does not comply with the requirements for backfilling material as specified or is surplus to backfilling requirements, such excavate material shall be removed from the site and disposed of where directed by the Service Manager. Material suitable for work, however, shall be used as prescribed.



3.1.6.2.6.2 Material (Water)

Material to be used for repairs shall be suitable and/ or adaptable to the existing installation and shall comply with the following:

(a) Cast-iron pipes and fittings

Joint types shall include Threaded, Viking Johnson-type flexible couplings, continuously welded, flanged or spigot and socket types with rubber rings.

(b) uPVC pipes and fittings underground:

For pipes sizes larger than 160 mm diameter, uPVC minimum class 9 pressure pipe to SABS 966 shall be used or as specified by the Service Manager/his representative.

Shall be used for all underground installations. Pipes shall be carefully bedded as per SANS 1200 LB, avoiding stones and hard edges. Pipes can be coupled with Viking Johnson (VJ) type flexible coupling, spigot and socket with rubber ring joints and end stub with rubber ring joints.

(c) Fibre-cement (asbestos-cement, FC):

FC pipes shall be bitumen dipped. Care shall be exercised to ensure good bedding of pipes as per SANS 1200 LB. Couplings shall include asbestos sleeves with rubber rings, cast iron flexible couplings, or Viking and Johnson-type flexible couplings. FC bends shall be replaced with uPVC where necessary.

(d) Polyethylene (PE):

For drinking water installation high-density PE (HDPE) shall be used. Low density pipes may be used for irrigation installations lower than 3 bar, however this will depend on the Service Manager's/Service Manager's specification. Joints for HDPE pipes shall be made either by butt-welding or electrical fusion.

(e) Reinforced Concrete and Prestressed concrete:

Spigot and socket joints shall be used for Reinforced Concrete pipes.

3.1.6.2.6.3 Materials for communicating pipes (Water)

(a) Galvanised steel with screwed and socketed joints or Viking Johnson-type flexible couplings; and

(b) Polypropylene (PP), high-density polyethylene (HDPE) and low-density polyethylene (LDPE) with external compression-type joints.

3.1.6.2.6.4 Water meters

All meter repair, replacement installation, design, selection of meter, calibration and building of chambers shall be in accordance with the Service Manager's requirements and approval.

(a) Guideline for metering can be found in the catalogues of meter suppliers.

(b) All mechanical meters must comply with SABS specifications.

(c) All meters must be installed in accordance to the manufacturer's instructions.

(d) Meters will be correctly sized, sizing of meters shall be discussed and agreed with the Service Manager or His representative. Contractor shall receive an approval from a service manager in this regard.

(e) Meters shall be tested as per the Service Manager or His representative's instruction.

(f) Meters shall comply with a Trade Metrology Act (Act 77 of 1973); and



- (g) Installations must comply with SANS 10252.



3.1.6.2.6.4 Valves and other fittings

- (a) **Gate valves** underground in valve chambers to connect to uPVC piping (65mm NB and larger)
Gate valves are to be equipped with a non-rising spindle, spherical graphite iron body to SANS 936 Grade 42, cast-iron nitrile butadine rubber-covered gate, stainless steel spindle, nitrile butadine rubber O-rings and seals, cast iron bonnet and gunmetal thrust collar to BS 1400 LG2.

The valve shall conform to SANS 664 and /or 665 and shall be capable of withstanding a working pressure of 1600 kPa.

The valve shall be fitted with a square key spindle top to close the valve in a clockwise direction and socket ends to SANS 665 to fit into uPVC Class 12 pipe and installed to detail. Or the valve shall be fitted with a flanged adapter coupling.

- (b) **Gate valves** underground to connect in valve chamber to connect to HDPE piping.
The gate valve shall be of the dezincified brass type with brass gate, brass body, non-rising spindle and BSP threaded socket ends. The valve shall conform to SABS 776. The valve shall be able to withstand a working pressure of 1600 kPa. The valve shall be fitted with a hand wheel on an extended spindle shaft of 700 mm to close in a clockwise direction and installed to detail.
- (c) **Ball-O-Stop valves** (15mm diameter – 25mm diameter)
This valve shall be a full-way ballcock type with BSP threaded ends. This valve shall conform to SANS 1056 Part 3, shall be rated for attest pressure of 2000 kPa, and shall be chrome -finished where exposed.
- (d) **Angle regulating valves.**
This valve shall be a 15mm diameter chromium-plated angle angle regulating valve with a 350mm chromium-plated copper tube and cap nuts where required.

- (e) **Strainers**
- I. Strainers for connection to steel or uPVC pipes (65mm NB and lager)
These strainers shall be Y type with cast ion body, stainless steel or bronze strainer element and shall be equipped with flanged ends to SABS 1123/1600. The whole size of the strainer element shall be maximum 1 mm diameter and shall be removable without dismantling of pipework. The strainer shall be suitable for temperature of up to 90°C at a 1000 kPa pressure rating and installed with element facing downwards or a maximum of 45°sideways.
 - II. Strainers for connection to steel and copper pipes (up to 50mm NB)
The strainer shall be of the Y-type with bronze or dezincified brass body, stainless steel strainer element and must be equipped with BSP treaded socket ends. The strainer shall be suitable for temperature of up to 90°C at a pressure rating of 1000 kPa and installed with the element facing downwards or a maximum of 45°sideways.



(f) Non-return valves

- I. Non-return valves for cold water (65 mm NB and larger)
 The non-return valve shall be of the spring-loaded dual flap plate type fitted between two flanges (Water).
 The non-return valve shall be equipped with a cast-iron body, aluminium bronze plates, stainless steel springs and neoprene seals on the plates. The valves shall be suitable for working pressure of 1000 kPa.
- II. Non-return valves for hot water (up to 100mm diameter) and cold water (up to 50mm NB)
 The non-return valve shall be of the spring-loaded piston type, with bronze or dezincified brass body, stainless steel spring and bronze disc with neoprene seal fitted with BSP threaded socket ends. The valve shall be suitable for working pressure of 1000 kPa and a temperature of up to 90°C. All valves shall be installed as to be removable without extensive pipework removal.

(g) Air release valves and vacuum breakers

- I. Double orifice double-acting air release valves with sizes from 50 mm NB to 200mm NB.
 The air release valve shall be fitted with small and large orifice. the air release valve shall be fitted with cast-iron or stainless-steel body, stainless steel or fabricated balls, integral shut-off valve and flanged ends to SANS 1123/1600 (1977). The valve shall be equipped with an anti-shock facility.

 The valve shall be suitable for maximum pressure of 1600 kPa.
- II. Single orifice air release valves for main water lines with sizes from 25mm NB to 50mm NB.
 The air release valve shall be fitted with a small orifice, cast-iron or stainless-steel body, fibre glass or stainless-steel ball float and BSP threaded inlet.

 When the valve is installed a shut off valve shall be installed on the line side. The valve shall be equipped with an anti-shock facility.

 The valve shall be suitable with a maximum pressure of 1600 kPa.
- III. Single orifice double purpose air release valves for domestic water lines up to 15mm NB.
 The air release valves shall be fitted with a stainless-steel float, brass or cast steel body with an integral shut-off valve fitted.

 The valve shall be capable to withstand a working pressure of 1000 kPa at 110°C.





IV. Vacuum breaker up-to 40 mm diameter.

The vacuum breaker shall be fitted with neoprene seal, spring loaded disc in a dezincified brass or bronze body. The valve shall be seal watertight and shall be designed to withstand a working pressure of 1000 kPa at 110°C.

(h) **Pressure-reducing valves**

I. Combination pressure reducing stations.

Where a high peak flow can occur as well as a small flow and the small flow is out of the range of the large pressure-reducing valve, a small pressure-reducing valve shall be installed in parallel with the large pressure-reducing valve. The two pressure-reducing valves in parallel shall be set according to the manufacture's specification.

II. Large pressure-reducing valves (65 mm NB and larger).

The pressure reducing valve shall be equipped with cast-iron body, neoprene-nylon reinforced diaphragm, bronze seal disc washer, stainless steel shaft and flanged ends. The valve shall be pilot operated and shall be designed to handle high flows at a minimum head loss.

The valve must be adjustable to handle a wide range of incoming pressure at a constant downstream pressure.

The valve shall be equipped with a flanged end to SANS 1123/1600 (1977).

III. Small pressure-reducing valves (15 mm NB – 50mm NB).

The pressure-reducing valve shall be equipped with brass body, balanced single seat and integral strainer. The valve shall be able to handle a wide range of incoming pressure while the downstream pressure stays constant with maximum inlet pressure of 1000 kPa and a maximum water temperature of 40 °C.



3.1.6.2.6.6 Material (Sewer)

- (a) Pipes used for conveyance of sewage, under particular working and installation condition to which they will be subjected, should be in accordance with Section 3.1 and 3.2 of SANS 1200 LD.
- (b) All joints for rigid pipes should be flexible type and rigid joints should only be used where the pipes are flexible.
- (c) Manhole
All materials used for Manhole should be in accordance with Section 3.5 of SANS 1200 LD.
- (d) Pumping Installation
In general, all material should be durable and suitable for use under the conditions of varying degrees of corrosion to which they will be exposed.
- (e) Pipework
The relevant requirement for materials given in SANS 1200 L and 1200LK should apply for repairs and installations on rising mains.
- (c) Concrete
Structural reinforced concrete and plain concrete below ground level and or in contact with sewage shall be designed and constructed in accordance with SANS 1200 G or 1200 GA, whichever is applicable.
- (d) Structural steelworks
All exposed steelworks shall be adequately protected against corrosion with suitable approved paint system and should otherwise be designed and constructed in accordance with SANS 1200 H or 1200 HA, whichever is applicable.
- (e) Electrical installations
All electrical installations shall comply with the Factories Act and with the Municipal electricity supply by-laws/regulations.
- (f) Other materials
Other materials used shall comply with the requirements of SANS 1200 LD where relevant.

3.1.6.2.6.5 Material (Stormwater)

- (a) Minimum pipe diameters will be 200mm where new installations are applicable, however this will depend on the Service Manager's discretion.
- (b) Pipes will be installed at gradient that will maintain velocities between 0.9 – 1.5 m/s. This will be guided by minimum grades as prescribed on the Red-book guideline.
- (c) Concrete anchor blocks with a minimum strength of 20 MPa will be used.
- (d) uPVC pipes and concrete shall be used, installations shall be as per SANS 1200 as mentioned above.



PROJECT SPECIFICATION

VARIATIONS AND ADDITIONS TO THE STANDARDIZED SPECIFICATIONS FOR THIS CONTRACT, AND PARTICULAR SPECIFICATIONS

The following variations and additions to the SANS 1200 standardized specifications apply to this contract. The prefix PS indicates any amendments to SANS 1200. The letters and numbers following these prefixes respectively indicate the relevant standardized specification and clause numbers in SANS 1200.

PSA 3: MATERIALS

PSA 3.1: QUALITY

Add the following:

All manufactured materials supplied shall be new materials unless the contrary is specified. All materials specified in accordance with SABS specifications shall bear the SABS mark, whether so specified or not.

PSA 5: CONSTRUCTION

PSA 5.2:

Add the following:

3.1.6.2.6.5 Traffic Accommodation

(a) Short Term Works.

The Contractor shall provide, erect, and maintain the necessary traffic control system. Where a flagman shall be placed on each side of the working area, road signs in the temporary series, which shall also include delineators and movable barricades (the barricade/sign combination type) or an appropriate combination thereof.

(b) Urban streets - Two-Way lane closure.

The Contractor shall provide, erect, and maintain the necessary traffic control devices, road signs, barricades, where a flagman shall be placed on each side of the working area, road signs in the temporary series, which shall also include delineators and movable barricades (the barricade/sign combination type) or an appropriate combination thereof.

(d) Urban streets - Lane Closure in and beyond junction.

The Contractor shall provide, erect, and maintain the necessary traffic control devices, road signs, warning devices, barricades, where a flagman shall be placed on each side of the working area, road signs in the temporary series, which shall also include delineators and movable barricades (the barricade/sign combination type) or an appropriate combination thereof.



It shall be incumbent upon the to see that the above-mentioned traffic-control facilities are present at all times and are functioning properly, but, prior to any installation of the above mentioned facilities, the Contractor shall submit his/her proposal to the Service Manager for his/her information or comment.

PSLE 9: MAINTENANCE

PSLE 9.1:

Add the following:

3.1.6.2.6.6 Cleaning of the ACSA pond

The Contractor shall block inlet pipes or culvert with sandbags to divert flow and prevent stormwater from entering the inlet basin, see photo 15 below.

The inlet basin shall be emptied by pumping stormwater into nearby open pond, make use of a 6in pump, pipes to have a total length of up to 40m, see photo 17 below.

The old oil separator booms shall be removed, loaded into a truck, and be dumped to a nearby hazardous waste dump site.

When the inlet basin is empty all sludge shall be removed from the floor and all inlet basin walls shall be cleaned by a water jet. At the end, the Contractor shall ensure that all dirt has been removed.

The sludge shall be placed on the membrane for drying. When the sludge has dried out, it shall be loaded onto a truck and dump to a nearby hazardous waste dump site. New oil separator booms shall be fixed in place such that all floating oil can be trapped easily. Dumping certificates will be required as proof of dumping at the end of the job.

Include:

- a. Crane truck, not less than a carrying capacity of 1 ton, the crane shall be used for loading damp oil separator booms, other solid waste and for delivering working equipment required for the job.
- b. 6 inch/153mm pump, to be used for draining stormwater. Include pump outlet pipes with a total length of up to 40m.
- c. Hand tools necessary for cleaning the pond basin.
- d. Water jet unit for cleaning the walls of the inlet basin.

3.1.6.2.6.7 Cleaning of the Road Lodge pond

Sandbags shall be placed on the open channel to prevent stormwater from flowing back into the inlet basin, the inlet basin shall be emptied by pumping stormwater into a nearby open pond. When the inlet basin is empty all sludge shall be removed from the inlet basin. The culvert shall be cleaned by going in at least 5 m.



The open channel shall be cleaned by removing all vegetation overgrowth on the grass blocks, to ensure grass blocks are neatly exposed.

The outlet point on the open channel shall be blocked by sandbags to prevent stormwater from entering the outlet basin. The outlet basin shall be emptied by pumping out stormwater into the open pond. When outlet basin has been emptied all sludge shall be removed by hand and wheelbarrows.

All sludge shall be placed on the membrane for drying. When the sludge has dried out it shall be dumped at a nearby hazardous waste dumping site. Dumping certificates will be required as proof of dumping at the end of the job.

Include:

- a. Crane truck, not less than a carrying capacity of 1 ton, the crane shall be used for loading solid waste and for delivering working equipment required for the job.
- b. 6 inch/153mm pump, to be used for draining stormwater. Include pump outlet pipes with a total length of up to 40m.
- c. Hand tools necessary for cleaning the inlet basin, open channel, and the outlet structure.

3.1.6.2.6.8 Cleaning of Robert Sobukwe open stormwater channels and earth pond

For grass block channels.

The inlet shall be blocked with sandbags to prevent water flow while cleaning is in progress. All debris, foreign vegetation, and dirt shall be removed, clean such that grass blocks are exposed. Waste shall be dumped to an approved waste dumping site. Dumping certificates will be required as proof of dumping at the end of the job.

For Earth channels.

The inlet shall be block with sandbags to prevent water flow, the earth channel shall be cleaned by removing all foreign objects including vegetation. When cleaning the Contractor shall ensure that original floor levels are maintained. Waste shall be dumped to an approved waste dumping site. Dumping certificates will be required as proof of dumping at the end of the job.

For ponds.

All excessive silt shall be removed from the inlet, pond, and outlet of the earth pond. All debris or dirt shall be removed to ensure that the pond has correct floor levels to ensure flow of stormwater. Remove reeds overgrowth where necessary. All waste shall be stockpiled on the side near the pond to allow for drying. Dry waste shall be dumped to a nearby hazardous waste site. Dumping certificates will be required as proof of dumping at the end of the job.



- a. Crane truck, not less than a carrying capacity of 1 ton, the crane shall be used for loading solid waste and for delivering working equipment required for the job.
- b. Hand tools necessary for cleaning the inlet basin, open channel, and the outlet structure.
- c. Backhoe digger loader for cleaning channels and maintaining water flow in the pond.

3.1.6.2.6.7 Cleaning of stormwater sumps

The sumps shall be emptied using built in mechanical pumps, once the sump has been emptied all silt, debris, solids, or foreign objects shall be removed. The Contractor shall ensure that pumps are free of any foreign objects. The remaining silt and grease shall vacuum with a combination unit. Dump all waste to a nearby hazardous waste dumping site. Dumping certificates will be required as proof of dumping at the end of the job.

**PSLD 9: MAINTENANCE****PSLD 9.1****Add the following.****3.1.6.2.6.8 Cleaning of sewer sumps**

The sewer sumps shall be emptied with built in pump. Walls of the sump shall be cleaned with a water jet to ensure there is no dirt. Pumps shall be cleaned by a water jet and solids shall be removed by hand. All debris, solids, stilt, oil, and fats will be removed by a combination unit or a Horney sucker. When complete the tank shall be free of any solids and shall be at a clean state. Dumping certificates will be required as proof of dumping at the end of the job.

3.1.6.2.6.9 Cleaning of wash-bays

The wash bay shall be empties by pumping manually or by making use of a built-in pumps. All sludge, oils, fats shall be removed, and walls shall be cleaned by a water jet. The Contractor shall ensure the chamber is clear off any foreign objects or solids. Waste shall be dumped to a nearby hazardous waste dumping site. Dumping certificates will be required as proof of dumping at the end of the job.

3.1.6.2.6.10 Cleaning of conservancy tanks

The conservancy tank shall be empties by using a combination unit or honey sucker truck. Chamber walls shall be cleaned with water jet. The Contractor shall ensure all solids, fats and sludge have been removed. dump waste to a nearby hazardous waste dumping site. Dumping certificates will be required as proof of dumping at the end of the job.

3.1.6.2.6.11 Dumping**Hazardous waste:**

Hazardous waste shall be safely loaded on a suitable vehicle and be dumped on a hazardous waste dumping site. The site for dumping hazardous waste shall be discussed and agreed with a Service Manager. The hazardous waste dumping site shall be registered and be compliant to the relevant South African environment act / government legislation. Dumping certificates shall be submitted by the Contractor to the Employer at the end of each dumping activity.

General Waste

Waste will be safely loaded on a suitable vehicle and be dumped on a registered waste dumping site. The general waste dumping site will be registered and recognised waste dumping site as per relevant South African environmental act/government legislation. Dumping certificates shall be submitted by the Contractor to the Employer at the end of each dumping activity.

**PSLE 9: MAINTENANCE****PSLE 9.1:**

Add the following:

3.1.6.2.6.12 Stormwater pipes & drainage cleaning**Pipes**

Pipelines shall be cleaned with a water jet, the Contractor shall physically remove all solids, silt, debris, and oil. Ensure the pipeline is free of any solids or silt. Safely pack waste for dumping to a nearby hazardous waste dumping site.

Catch-pits or drainage points.

Drainage points need to be open safely to avoid and damages to covers. The Contractor shall physically clean chambers by hand to remove all foreign objects such as silt, solids, debris, and other objects that may cause blockages on the system. All waste needs to be packed away for dumping to an approved hazardous waste dumping site.

PSLD 9: MAINTENANCE**PSLD 9.1:**

Add the following:

3.1.6.2.6.13 Cleaning of sewer pipelines

Manholes need to be safely opened, to avoid any damages to covers or structures. The pipeline will be cleaned by a jet unit with sufficient pressure to clear sewer blockages. The Contractor will ensure that the pipeline is free of any foreign objects that may cause blockages. Objects that can not be removed by water jet, will be removed by hand.

3.1.6.2.6.14 CCTV inspection

The Contractor shall provide CCTV inspection on sections of pipes as may be identified by the Service Manager/ACSA representative. Work shall include opening of manhole covers, setting up of CCTV equipment on a specific point, cleaning the pipe by water jet as may be required, inserting a suitable camera inside the pipe, inspecting the agreed length of a pipe. Work shall include analysing of data, compiling a report and issuing the report to a Service Manager/ACSA representative in a form of a document and a USB/Flash drive. The report shall be reviewed between both parties until it has reached an acceptable quality.



3.1.6.2.6.15 Over-pumping of sewer, stormwater, waster, groundwater or any other form of water.

Over-pumping shall include setting up a suitable mechanical pump that will meet the required discharge rate. Connecting a suitable length of pipe, that will comply with the required pump discharge rate. Pumping of either drinking water, sewer, stormwater, groundwater, and any other form of liquid that made be deemed safe for pumping. Work shall include monitoring of the over-pumping from start to finish. All materials and equipment shall be provided by a Contractor. The hourly rate refers to any hour of the day.

3.1.6.2.6.16 Pipe cracking for sewer pipes.

The Contractor shall have all necessary certification to do pipe cracking, and proof shall be submitted at tender stage. If the Principal Contractor is not qualified to do this work then a qualified Sub-contractor shall be used, proof of all qualifications shall be submitted at Tender stage. Only trained people shall be allowed to operate equipment during the installation work.

The method approved for rehabilitation of existing sanitary sewers pipe cracking and installation of new HPE pipe shall be in-line with the South African Society for Trenchless Technology standard (SASTT-TS-TT2:2013 or an approved equal. Cracking on roads shall be pulled from manhole to manhole through an existing pipe where the cracking equipment and pipe are connected and pulled back through an existing pipe.

The static pulling frame shall be telescopic in design to allow the cutting head to release at the termination of the pull. This also provides minimal trench length by telescopic adjustment.

3.1.6.2.6.17 Valve keys

The valve keys shall be galvanised steel, with minimum body thickness of 35mm X 35 mm or diameter of 35mm. the holding arm shall have a minimum width of 400mm. The length of the key shall be a minimum of 1800mm.

3.1.6.2.6.18 Root cutting

A suitable root cutter for sewer pipes is to be used when cutting roots inside a pipeline. All debris shall be removed such that the pipe is free on any root intrusion, in some instances the Contractor may have to use a water jet to clean and get reed of the remaining debris after root cutting. A CCTV camera shall be used to assess the extent of root intrusion before and after roots have been removed from the sewer pipeline. At the end, the Contractor shall provide a detailed report accompanied with CCTV videos and photos.

PSA 8 MEASUREMENT AND PAYMENT



PSA 8.7 Dayworks

(a) Labour charges

1. (description of the employee/designation indicated/skill indicated) Unit: hour (hr)
2. (etc, for other designations/skills) Unit: hour (hr)

The unit of measurement shall be the hour of time worked by the particular employee on the designated work on the instruction of the Service Manager.

The Daywork rates submitted for labour in the schedule of quantities shall be the cost of labour for each skill level and shall apply only to the number of workers approved in writing by the Service Manager.

The rates shall be for normal working hours and shall be increased prorate for overtime at a standard rate applicable if work performed outside working hours is approved in writing by the Service Manager.

The tendered rates shall include full compensation for all costs for salaries and wages, use and maintenance of tools and equipment, holidays with pay and financial charges of any description incurred by the Contractor and his subcontractors as well as for all insurance, accommodation, travelling, travelling time, supervision, overheads, profit, obligations, risks and any other emoluments and incidentals necessary for labour to execute work as daywork.

(b) Material charges

1. Actual cost of material (excluding vat) Unit: Provisional Sum

Expenditure under this item shall be allowed if the items were not included on the tender rates. The provisional sum allowed shall include for the actual cost incurred for materials used in authorised daywork. The actual costs for materials shall not be subject to contract price adjustment.

The tendered percentage is a percentage of the amount actually spend under subitem (b)(1.) and shall include full compensation for handling costs of the Contractor, profit, overheads and incidentals in connection with materials used for daywork on the instructions of the Service Manager.

(c) Plant charges

1. (description of plant indicated) Unit: hour (hr)
2. (etc for other plant) Unit: hour (hr)

The unit of measurement shall be the hour actually worked by each item of plant (vehicle, machine or equipment) on the designated work on instruction by the Service Manager.

The Contractor and the Service Manager will agree on the method of recording the working hours prior to the commencement of work. Any long period of idling at any one time which in the opinion of the Service Manager or his representative is beyond that required for normal operating conditions will not be paid for as working time. Non-working hours for any reason shall not be measured for payment.



The tendered rate shall include full compensation for furnishing and using the plant, including the cost of plant operators, consumable stores, fuel, ground-engaging tools, maintenance and for all other incidentals necessary to execute the authorised daywork as specified.

PSA 8.7 Application for payment

Payment shall be in accordance with item 51 of the NEC contract.

Before work commence the Contractor shall submit a quotation to the Service Manager, the quotation shall cover all fees for planned work. The quotation includes information such as item, description, unit, rate, quantity, total amount exclusive of vat and total amount inclusive of vat. The Service Manager shall review the quotation and revert to the Contractor with a purchase order.

The Contractor will then plan and execute work, when work have been completed the contractor shall inform the Service Manager or his representative to assess and sign off on the completed work. Upon the Service Manager's approval that work is indeed completed, and quality is satisfactory, the contractor will submit a payment certificate to the Service Manager or his representative, the Service Manager reviews the payment certificate and provide an approval as necessary. The Contractor issues an invoice to the Service Manager.

The Service Manager shall submit the invoice to ACSA financial department to process for payment. Payment will take place 30 days after the invoice was submitted to the Service Manager by the Contractor.

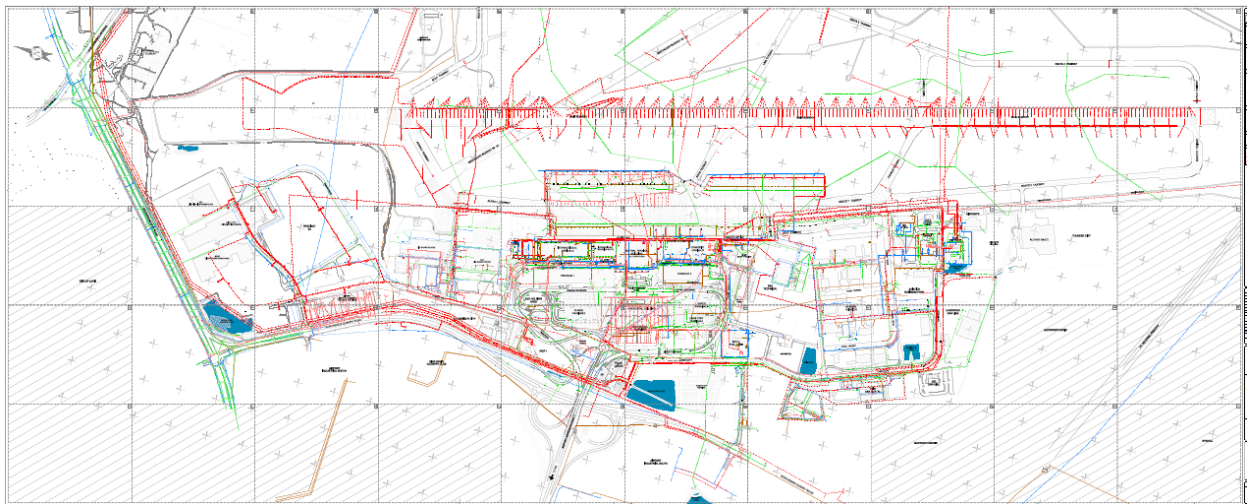
C3.1.4 LOCATION OF THE WORKS

The Works are located at Cape Town International Airport (CTIA) at various locations in restricted and access-controlled areas (landside and airside). It is crucial for the Contractor to note that Cape Town International Airport is a National Key Point and governed as such.

On airside, most areas must be done only at night and with the aid of an ACSA escort present whilst few areas can be executed daytime. Nightworks are executed where access to certain areas is not possible during the day due to aircraft movement. Work commences after the last flight and work must be completed and site must be vacated by 05h00. Commencement of work may be delayed by the delayed departure or arrival of the last flight. Contractor must ensure site is clear of debris and or foreign material before vacating the site.

Contractor personnel will be required to undergo ACSA administered airside specific training so they can be familiarised with the workings of airside prior to their commencement of work.

The following areal image and underground serves drawing show the location of the CTIA underground services and associated infrastructure.



- **Bidder to meet Minimum Requirements**

- ***A Valid Tax Pin Status***
- ***A Valid B-BBEE Certificate***
- ***Signed Declaration of Interest Forms***
- ***Proof of CSD registration (MAAA Number)***
- ***Valid letter of good standing***
- ***CIDB Grading of CE2***

SECTION 4: PREFERENCE POINTS AND PRICE

4.1 Preference Points Claims

In terms of the PPPFA and its regulations only a maximum of 20 points may be awarded for preference.

The 80/20 Preference Point System for bids with a Rand value of more than R30,000-00 but not exceeding R50,000,000-00 (all applicable taxes included)

The tender will therefore be evaluated using 80/20 preference points system: This means that on the 80/20 system the B-BBEE status level of contributor will earn the bidder points out of 20

- Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA), an affidavit in the case of Qualifying Small Enterprises and an Emerging Micro Enterprises or an Auditor/Accounting Officer as contemplated in the Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- ACSA reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by ACSA.

1. Definitions

1. **“All Applicable Taxes”** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 4.3.2 **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad -Based Black Economic Empowerment Act;
- 4.3.3 **“B-BBEE status level of contributor”** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

- 4.3.4 **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- 4.3.5 **“Comparative Price”** means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
- 4.3.6 **“Consortium or Joint Venture”** means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;
- 4.3.7 **“EME”** means any enterprise with an annual total revenue of R5 million or less in terms of the B-BBEE Codes of Good Practice of 2007 and an entity with a turnover of less than R 10 million in terms of the amended B-BBEE Codes;
- 4.3.8 **“Firm Price”** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 4.3.9 **“Functionality”** means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 4.3.10 **“Non-Firm Prices”** means all prices other than “firm” prices;
- 4.3.11 **“Person”** includes a juristic person;
- 4.3.12 **“Rand Value”** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
- 4.3.13 **“Total Revenue”** bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act and promulgated in the Government Gazette on 9 February 2007;
- 4.3.14 **“Trust”** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and

- 4.3.15 **“Trustee”** means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

4.4 Adjudication Using A Point System

1. The bidder obtaining the highest number of total points will be awarded the contract, unless objective criteria exist justifying an award to another bidder or ACSA exercises one or more of its disclaimers.
2. Preference points will be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts
3. Points scored will be rounded off to the nearest 2 decimal places.

1. Award of Business where Bidders have Scored Equal Points Overall

1. In the event that two or more bids have scored equal total points, the successful bid will be the one scoring the highest number of preference points for B-BBEE.
2. However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid will be the one scoring the highest score for functionality.
3. Should two or more bids be equal in all respects, the award will be decided by the drawing of lots.

2. Points Awarded for Price

1. The 80/20 Preference Point Systems

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

80/20

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

Where

P_s = Points scored for comparative price of bid under consideration

P_t = Comparative price of bid under consideration

P_{min} = Comparative price of lowest acceptable bid

3. Points Awarded for B-BBEE Status Level of Contribution

1. In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of Points (90/10 system)	Number of Points (80/20 system)
1	10	20
2	9	18
3	8	16
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

Bidders who qualify as EMEs in terms of the B-BBEE Act must submit an affidavit stating its annual turnover, certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA's approval for the purpose of conducting verification and issuing EMEs with B-BBEE Status Level Certificates.

2. Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS. QSEs have an additional option of submitting a sworn affidavit as its B-BBEE certificate in terms of the amendments to the B-BBEE Codes of Good Practice in 2013.
3. A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.
4. A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
5. Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
6. A person will not be awarded points for B-BBEE status level if it is indicated in the bid documents that such a bidder intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.
7. A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.

4. Bid Declaration

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

B-BBEE Status Level of Contribution Claimed in Terms of Paragraphs 4.2.1 and 4.7.1:

B-BBEE Status Level of Contribution: _____ = _____ (maximum of 10 or 20 points)

(Points claimed in respect of paragraph 4.8.1 must be in accordance with the table reflected in paragraph 4.7.1 and must be substantiated by means of a B-BBEE certificate issued by a

Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or an Accounting Officer as contemplated in the CCA).

SECTION 5: EVALUATION CRITERIA

1.1 Evaluation Criteria

ACSA will use a pre-determined evaluation criterion when considering received bids. The evaluation criteria will consider the commitment made for local production and content/ Supplier Development/ functionality/technical/Price and B-BBEE. During the evaluation of received bids ACSA will make an assessment whether all the bids comply with set minimum requirements and whether all returnable documents/information have been submitted. Bidders which fail to meet minimum requirements, thresholds or have not submitted required mandatory documents will be disqualified from the tender process.

The requirements of any given stage must be complied with prior to progression to the next stage. ACSA reserves the right to disqualify bidders without requesting any outstanding document/information.

1.2 Mandatory Requirements

A list of mandatory returnable documents must be consulted to understand which documents are required at the closing date and time. Further, to the mandatory returnable documents/information ACSA will only consider bidders which have:

1.3 Local Content and Production

Bidders must complete and return SBD 6.2 (Declaration of Local Content and Production form) on the closing date and time of this tender. ACSA will disqualify any bidder which has not submitted the SBD 6.2 form on the closing date and time. The form must be completed under **Section 2** at 2.8 of this tender document.

1.4 Functionality / Technical

The description of the functionality evaluation criteria is explained below.

1.5 Price and B-BBEE

This is the final stage of the evaluation process and will be based on the PPPFA preference point system of **80/20**

SECTION 7: DECLARATION FORM

- **Making a Declaration**

Any legal person or persons having a relationship with persons employed by ACSA, including a blood relationship, may submit a bid in terms of this tender document. In view of possible allegations of unfairness, should the resulting bid, or part thereof, be awarded to persons connected with or related to ACSA employees, it is required that the bidder or his/her authorised representative declare his/her position in relation to ACSA employees or any member of the evaluation or adjudication committee which will consider bids. Furthermore, ACSA requires all bidders to declare that they have not acted in any manner inconsistent with the law, policy or fairness.

- **All bidders must complete a declaration of interest form below:**

Full name of the bidder or representative of
the bidding entity

Identity Number

Position held in the bidding entity

Registration number of the bidding entity

Tax Reference number of the bidding entity

VAT Registration number of the bidding
entity

I/We certify that there is a / no relationship between the bidding entity or any of its shareholders / directors / owner / member / partner with any ACSA employee or official.

Where a relationship exists, please provide details of the ACSA employee or official and the extent of the relationship below

- **Full Names of Directors / Trustees / Members / Shareholders of the bidding entity**

Full Name	Identity Number	Personal Reference Number	Income	Tax
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- **I/We declare that we have not acted in any manner which promotes unfairness, contravenes any law or is against public morals. We further certify that we will in full compliance of this tender terms and conditions as well as ACSA policies in the event that we are successful in this tender.**

Declaration:

I/We the undersigned _____ (Name)
herby certify that the information furnished in this tender document is true and correct. We further certify that we understand that where it is found that we have made a false declaration or statement in this tender, ACSA may disqualify our bid or terminate a contract we may have with ACSA where we are successful in this tender.

Signature

Date

Position

Name of bidder

Section 8: DECLARATION OF FORBIDDEN PRACTICES

I/We hereby declare that we have not/been found guilty of any illegal activities relating to corruption, fraud, B-BBEE fronting, anti-competitive practices and/or blacklisted by an organ of State Owned Company, etc. and/or any other forbidden practices.

I/We declare the following:

	Description	Penalty	Organ of State / State Owned Company
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Furthermore, I/We declare that to the best of my/our knowledge there is /are no further practices to be declared or which are in the process of being finalised. The following are alleged practices which have not yet been finalised.

	Description	Organ of State / State Owned Company
a)		
b)		

This declaration was signed on _____ of _____ 202_____

Name:

Designation:

Signature:

ACCEPTANCE OF RFB TERMS AND CONDITIONS

TO: Supply Chain Management Office

Airports Company South Africa SOC Ltd.

Bid Reference No: **RFQ 70490- Maintenance of Water reticulation****• Bidder's Name and Contact Details**

Bidder:	
Physical Address:	
Correspondence to be addressed to:	
Fax Number:	
Phone numbers:	
Email Address:	
Contact Person:	

• Proposal Certification

We hereby submit a Proposal in respect of the RFQ **70490- maintenance of water reticulation at Cape Town International Airport.**

- We acknowledge that ACSA's terms and conditions (as amended and mutually agreed between the parties if necessary) shall apply to the agreement with the successful Bidder/s,
- We have read, understand, and agree to be bound by the content of all the documentation provided by ACSA in this Request for Proposal.
- We accept that ACSA's Bid Adjudication Committee decision is final and binding.
- We certify that all forms of Proposal as required in the Proposal document are included in our submission.

- We certify that all information provided in our Proposal is true, accurate, complete, and correct.
- This Proposal is specific to this project only; it has no impact, influence, or effect on any other project for which a Proposal may be submitted.
- The undersigned is/are authorized to submit and sign the Proposal that shall be binding on closure of the Proposal submission.
- The Proposal is binding on this Tenderer for a period which lapses after one hundred and twenty (120) days calculated from the closing date of proposal submission.

Thus done and signed at		on this the		day of		2022
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Signature:	
Name:	

For and behalf of:

Tendering entity name:	
Capacity:	

