



BID DOCUMENT

FOR THE

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS.

Bid Reference Number: BFIA8202/2026

DATE OF ISSUE: 11 June 2026

Issued by
Airports Company South Africa
OR Tambo International Airport

Note:

Upon Acceptance of the Offer by the Employer, this Tender Document becomes the Contract Document, subsequent to which, all references to the term "Tenderer(s)" then become synonymous with the term "Contractor".

VOLUME 3

NAME OF BIDDER:

PART A

SBD 1: INVITATION TO BID

| YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE AIRPORTS COMPANY SOUTH AFRICA | | | | | |
|--|---|---------------|--|---|-----------------|
| BID NUMBER: | BFIA8202/2026 | CLOSING DATE: | 24 JULY 2026 | CLOSING TIME: | 12:00 PM |
| DESCRIPTION | CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS. | | | | |
| BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS) | | | | | |
| Finance Office, Terminal Building | | | | | |
| 1 Old Thaba Nchu Road | | | | | |
| Bloemfontein, 9300 | | | | | |
| Bram Fischer International Airport | | | | | |
| (NB: Tender Deposit Register must be completed and signed by person depositing the bid documents) | | | | | |
| BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO | | | TECHNICAL ENQUIRIES MAY BE DIRECTED TO: | | |
| CONTACT PERSON | PATRICIA NKAMBULE | | CONTACT PERSON | PATRICIA NKAMBULE | |
| TELEPHONE NUMBER | | | TELEPHONE NUMBER | | |
| FACSIMILE NUMBER | N/A | | FACSIMILE NUMBER | N/A | |
| E-MAIL ADDRESS | PATRICIA.NKAMBULE@AIRPORTS.CO.ZA | | E-MAIL ADDRESS | PATRICIA.NKAMBULE@AIRPORTS.CO.ZA | |
| SUPPLIER INFORMATION | | | | | |
| NAME OF BIDDER | | | | | |
| POSTAL ADDRESS | | | | | |
| STREET ADDRESS | | | | | |
| TELEPHONE NUMBER | CODE | | NUMBER | | |
| CELLPHONE NUMBER | | | | | |
| FACSIMILE NUMBER | CODE | | NUMBER | | |
| E-MAIL ADDRESS | | | | | |
| VAT REGISTRATION NUMBER | | | | | |
| SUPPLIER COMPLIANCE STATUS | TAX COMPLIANCE SYSTEM PIN: | | O R | CENTRAL SUPPLIER DATABAS E No: | MAAA |

| | | | |
|---|--|--|--|
| <p>ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?</p> | <p><input type="checkbox"/>Yes <input type="checkbox"/>No</p> <p>[IF YES ENCLOSE PROOF]</p> | <p>ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?</p> | <p><input type="checkbox"/>Yes <input type="checkbox"/>No</p> <p>[IF YES, ANSWER THE QUESTIONNAIRE BELOW]</p> |
|---|--|--|--|

| QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS | |
|---|--|
| IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| DOES THE ENTITY HAVE A BRANCH IN THE RSA? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| <p>IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.</p> | |

PART B

TERMS AND CONDITIONS FOR BIDDING

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| <p>1. BID SUBMISSION:</p> |
| <p>1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.</p> <p>1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</p> <p>1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.</p> <p>1.4. THE SUCCESSFUL BIDDER MUST ENSURE THEY HAVE A FULLY COMPLETED AND SIGNED WRITTEN CONTRACT POST AWARD.</p> |
| <p>2. TAX COMPLIANCE REQUIREMENTS</p> |
| <p>2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.</p> <p>2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.</p> <p>2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.</p> <p>2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.</p> <p>2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.</p> <p>2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.</p> |

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.



SIGNATURE OF BIDDER:

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

.....

DATE:

.....

| | Contents | |
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T1.1 Tender Notice and Invitation to Tender

Airports Company South Africa SOC Limited **invites tenders for** the Construction of Underground Main Water Line and Rehabilitation of Service Roads at Bram Fischer International Airport for a period of 24 Months.

Only tenderers who have a CIDB contractor grading of **8CE or higher** as stated on the Tender Data may submit tender offers.

In the case of Consortium or Joint Venture, a combined contractor grading of **8CE** will be accepted.

TENDER DOCUMENT AVAILABILITY

Tender document are available from **Tuesday 11th of June 2026**, for free download from National Treasury's eTender Publication Portal (<http://www.etenders.gov.za>) and ACSA Tender Bulletin website - <http://www.airports.co.za/business/tender-bulletin/current-and-future-tenders>

KINDLY PRINT AND COMPLETE.

Queries relating to the issue of these documents may be addressed to Patricia.Nkambule@airports.co.za

E-mail address: insert

Closing date for enquiries is **9th of July 2026 at 12h00**.

Telegraphic, telephonic, telex, facsimile, e-mail tenders will not be accepted. 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 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.

Compulsory Briefing

A compulsory clarification meeting with representatives of the Employer will take place in person on the **19th of June 2026 at 09h00 AM – Please see below program for arrangements pertaining to access to site.**

VENUE:

**Permit Office,
Bram Fischer International Airport
1 Old Thaba Nchu Road
Bloemfontein
9300**

Non-compulsory Site Inspection

The site inspection is non-compulsory. The site inspection will provide you with a more understanding of the airport and what is required for this tender/contract. The non-compulsory site inspection will be held after the compulsory briefing session on the **19th of June 2026. No bidder will be allowed Access beyond 11h00.**

The compulsory Briefing and non-compulsory site inspection will have the following program:

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|--|-------------|
| 1. <i>Permits and signing of attendance register at BFIA Permit office</i> | 08h00-11h00 |
| 2. <i>Escort to the training Centre</i> | 11h00-11h30 |
| 3. <i>Compulsory Briefing session</i> | 11h30-12h30 |
| 4. <i>Non-Compulsory Site Inspection</i> | 13h00-15h00 |
| 5. No bidder will be allowed access after 11h00. | |

Bidders are required to bring the following for the site inspection at the airport – **bidders will not be allowed into the briefing session without the below:**

1. *ID document or driver's license*
2. *Safety Boots*
3. **Reflector Vest**
4. *Valid airside temporary permit. Airside temporary permit is available at the permit office at BFIA from 08h00 until 11h00 on the day of the compulsory briefing session. The price of the temporary permit is R35.00 (ex VAT) and only card payments will be accepted at the permit office. **No permit forms will be issued after 11h00!!***

Closing Date

The closing time for receipt of tenders is **24th of July 2026 at 12h00 pm** (South African Time). Tenders must be placed inside the Tender Box

Location Of Tender Box:

Finance Office
Terminal Building
Bram Fischer International Airport
1 Old Thaba Nchu Road
Bloemfontein
9300

Submission of Bid Documents

- Submit bids during working hours Monday to Friday as there may not be anyone available to receive bids outside working hours.
- The Bid Register must be completed when submitting/depositing the tender document – Ensure that the persons delivering the tender document is aware of this. The Register will require the name of the Tendering Entity; Name and contact details of the person at the tendering entity.
- This Bid document and the contract document must be completed and returned in it's entirety together with the necessary supporting information.
- **The bidder must submit bids in Printed (1 Original and 1 Copy)**. Bids must be sealed in clearly marked envelopes/package indicating which is "Original" and which is "Copy" and marked with Tenderer's name and contact details, Tender Reference Number and Tender Description.

- **Electronic copies/links of the tenders are to be e-mailed to the following email address:**

PATRICIA.NKAMBULE@AIRPORTS.CO.ZA

- **ENSURE THAT THE ELECTRONIC COPY IS WELL LABELLED IN SEPARATE ANNEXURES AS PER THE RETURNABLES SCHEDULE**

PLEASE NOTE THAT BOTH METHODS MUST BE UTILIZED. BIDDERS SHOULD NOT CHOOSE JUST ONE OF THEM AND THE PHYSICAL SUBMISSION INFORMATION WILL TAKE PRECEDENCE SHOULD THERE BE A DISCREPENCY BETWEEN THE TWO SUBMISSION METHODS.

- **FAILURE TO SUBMIT THE PHYSICAL DOCUMENTS BEFORE THE CLOSING TIME WILL RESULT IN A DISQUALIFICATION**
- Tenders may only be submitted on the tender documentation that is issued.

Late Bids

Bids which are submitted after the closing date and time **will not** be accepted. Bidders must ensure that bid envelopes have the bidder's return address on the outside which ACSA may use to return late bids.

Airports Company South Africa SOC Limited will not be liable for any late bids.

Telephonic, telegraphic, telex, facsimile, e-mailed tenders will not be accepted. Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

T1.2 Tender Data

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement (8 August 2019) as published in Government Gazette 42622, Board Notice 423 of 2019 of 8 August 2019. (See www.cidb.org.za).

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

| Clause Number | Tender Data |
|---------------|--|
| C.1 | GENERAL |
| C.1.1 | The Employer is AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED |
| C.1.2 | <p>The Tender Documents issued by the Employer comprise:</p> <p>Volume 1: The General Conditions of Contract for Construction Works (2015) published by the South African Institution of Civil Engineering, is applicable to this contract. Copies of these conditions of contract may be obtained from the South African Institution of Civil Engineering (tel.: 011-805 5947).</p> <p>Volume 2: The Standard General and Technical Specifications for Civil Works shall be the COTO - Standard Specifications for Road and Bridge Works or South African Road Authorities 2020.</p> <p>Volume 3:</p> <p>Part T1 - Tendering Procedures: T1.1 Tender notice and invitation to tender T1.2 Tender data T1.3 CIDB Standard conditions of tender</p> <p>Part T2 - Returnable Document: T2.1 List of returnable documents T2.2 Returnable schedule</p> <p>Part C1: Agreements and Contract Data C1.1 Form of offer and acceptance C1.2 Contract data</p> <p>Part C2: Pricing Schedule C2.1 Pricing instructions C2.2 ACSA Service Level Agreement – GCC2015 3rd Edition C2.3 Bills of Quantities</p> <p>Part C3: Scope of work Part C4: Site information Part C5: Annexures</p> <p>Volume 4: Tender Drawings (for tender purposes)</p> <p>Volume 5: Procedure Manual for Working Airside</p> |

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| C.1.4 | <p>The Employer's Agent is PATRICIA NKAMBULE (SCM Representative) Email address: PATRICIA.NKAMBULE@AIRPORTS.CO.ZA</p> <p>All communication during the Tender period shall not be made to the Principal Agent but to ACSA's Supply Chain Department</p> |
| C.1.5 | <p>Cancellation and Re-Invitation of Tenders</p> <p>C1.5.1 An Employer may, prior to the award of the tender, cancel a tender if-</p> <ol style="list-style-type: none"> a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation. b) funds are no longer available to cover the total envisaged expenditure; or c) no acceptable tenders are received. d) there is a material irregularity in the tender process. <p>C.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised</p> <p>C.1.5.3 An Employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.</p> |
| C.2 | TENDERER'S OBLIGATIONS |
| C.2.1 | <p>Eligibility</p> <p>Refer Mandatory Criteria as listed in C3.11</p> |
| C.2.2 | <p>Cost of tendering</p> <p>C.2.2.1 Accept that, unless otherwise stated in the tender data, the Employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.</p> |
| C.2.3 | <p>Check documents</p> <p>Check the tender documents on receipt for completeness and notify the Employer of any discrepancy or omission.</p> |
| C.2.4 | <p>Confidentiality and copyright of documents</p> <p>Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the Employer only for the purpose of preparing and submitting a tender offer in response to the invitation.</p> |
| C.2.6 | <p>Acknowledge addenda</p> <p>Acknowledge receipt of addenda to the tender documents, which the Employer may issue, and if necessary, apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.</p> |
| C.2.7 | <p>Clarification meeting</p> <p>Compulsory Briefing Session and Non-Compulsory Site Visit at Bram Fischer International Airport</p> <p>The arrangements for the above are as stated in the Tender Notice and Invitation to Tender (T1.1).</p> <p>Tenderers must sign the attendance list in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.</p> |

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| C.2.8 | <p>Seek clarification</p> <p>Request clarification of the tender documents, if necessary, by notifying the Employer by the Query Closure date of 09 June 2026</p> |
| C.2.9 | <p>Insurance</p> <p>Be aware that the extent of insurance to be provided by the Employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.</p> |
| C.2.10.3 | <p>The Contract Price shall be subject to contract price adjustment in accordance with Clause 6.8 of the General Conditions of Contract.</p> |
| C.2.11 | <p>Alterations to documents</p> <p>Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the Employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.</p> |
| C.2.12 | <p>Alternative bids will not be considered.</p> |
| C.2.13 | <p>Submitting a tender offer</p> <p>C.2.13.1 Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.</p> <p>C.2.13.2 Return all returnable documents to the Employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.</p> <p>C.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus PLUS one (1) copy AND in electronic format (USB Flash Drive), with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the Employer.</p> <p>C.2.13.4 Sign the original and all copies of the tender offer where required in terms of the tender data. The Employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the Employer shall hold liable for the purpose of the tender offer.</p> <p>C.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the Employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.</p> |
| C.2.14 | <p>Information and data to be completed in all respects</p> <p>Accept that tender offers, which do not provide all the data or information requested completely and, in the form, required, may be regarded by the Employer as non-responsive.</p> |

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| C.2.15 | <p>Closing time</p> <p>The Employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are:</p> <p>Location of tender box:</p> <p>Finance Office, Terminal Building Bram Fischer International Airport 1 Old Thaba Nchu Road Bloemfontein, 9300</p> <p>Identification details: Bid Ref. No: BFIA8202/2026</p> <p>Title: Construction of Underground Main Water Line and Rehabilitation of Service Roads at Bram Fischer International Airport for a period of 24 Months.</p> <p>Closing Date: Thursday 24 July 2026 at 12h00PM</p> |
| C.2.16 | <p>Tender offer validity</p> <p>C.2.16.1 Hold the tender offer(s) valid for 12 weeks (84 days) for acceptance by the Employer at any time during the validity period stated after the closing time stated in the tender data.</p> <p>C.2.16.2 If requested by the Employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.</p> <p>C.2.16.3 Accept that a tender submission that has been submitted to the Employer may only be withdrawn or substituted by giving the Employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the Employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).</p> <p>C.2.16.4 Where a tender submission is to be substituted, a tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as "SUBSTITUTE".</p> |
| C.2.17 | <p>Clarification of tender offer after submission</p> <p>Provide clarification of a tender offer in response to a request to do so from the Employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.</p> |
| C.2.20 | <p>Submit securities, bonds and policies</p> <p>If requested, submit for the Employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.</p> |
| C.3 | <p>EMPLOYER'S UNDERTAKINGS</p> |
| C.3.1 | <p>Respond to requests from the tenderer</p> |

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| | The Employer will respond to requests for clarification by 5 working days before the tender closing time. |
| C.3.2 | <p>Issue Addenda</p> <p>Addenda will be issued until ten (10) working days before the tender closing time.</p> |
| C.3.3 | <p>Return late tender offers</p> <p>Tender offers received after the closing time stated in the Tender Data will be returned, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.</p> |
| C.3.4 | <p>Opening of tender submissions</p> <p>There will be public opening of tenders after the closing date and time at the Finance Boardroom at Bram Fischer International Airport. Tender opening register will be uploaded on National Treasury e-tenders website.</p> |
| C.3.7 | <p>Grounds for rejection and disqualification</p> <p>Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.</p> |
| C.3.8 | <p>Test for Responsiveness</p> <p>C.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:</p> <ol style="list-style-type: none"> complies with the requirements of these Conditions of Tender has been properly and fully completed and signed, and is responsive to the other requirements of the tender documents <p>C.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:</p> <ol style="list-style-type: none"> detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work, significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified. <p>Reject a non-responsive tender offer and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.</p> <p>The detailed Evaluation Process will follow here-after to further determine if the qualifying bidders/tenderers is fully responsive.</p> |
| C.3.9 | <p>Arithmetical errors, omissions and discrepancies.</p> <p>C.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.</p> |

| | <p>C.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for:</p> <ul style="list-style-type: none"> a) the gross misplacement of the decimal point in any unit rate. b) omissions made in completing the pricing schedule or bills of quantities; or c) arithmetic errors in: <ul style="list-style-type: none"> (i) line-item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or (ii) the summation of the prices. <p>C.3.9.3 Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.</p> <p>C.3.9.4 Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:</p> <ul style="list-style-type: none"> a) If bills of quantities or pricing schedules apply and there is an error in the line-item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line-item total as quoted shall govern, and the unit rate shall be corrected. b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern, and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices. | | | | | | | | | | |
|---|---|--|-------------------------------|---|---------|---------|---|------------------------|--|-------------------------------|---|
| <p>C.3.10</p> | <p>Clarification of a tender offer Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.</p> | | | | | | | | | | |
| <p>C.3.11</p> | <p>A staged approach will be used to evaluate tenders</p> <p>Table 1 of T1.2</p> <table border="1"> <thead> <tr> <th>Stage 1</th> <th>Stage 2</th> <th>Stage 3</th> <th>Stage 4</th> <th>Stage 5</th> </tr> </thead> <tbody> <tr> <td>Test for Responsiveness As per Clause C3.8</td> <td>Mandatory Requirements</td> <td>Evaluate on functionality or the technical aspect of the bid</td> <td>Evaluate price and Preference</td> <td>Post tender negotiations (if applicable)</td> </tr> </tbody> </table> <p>Stage 1 Test for Responsiveness (as per clause C.3.8) Documents outside the detailed evaluation stages will be checked in this stage. Documents relating to the Mandatory, Functionality, Price/Preference and Objective Criteria stages will be checked in those stages and evaluated accordingly.</p> <p>Stage 2 Mandatory Administration Criteria</p> <ul style="list-style-type: none"> A. Attendance of compulsory briefing session. Form A.1 must be completed in full and signed by ACSA representative at the briefing session or signed attendance register at site briefing – it is the responsibility of the bidder to ensure that all details are accurately captured on the attendance register. | Stage 1 | Stage 2 | Stage 3 | Stage 4 | Stage 5 | Test for Responsiveness As per Clause C3.8 | Mandatory Requirements | Evaluate on functionality or the technical aspect of the bid | Evaluate price and Preference | Post tender negotiations (if applicable) |
| Stage 1 | Stage 2 | Stage 3 | Stage 4 | Stage 5 | | | | | | | |
| Test for Responsiveness As per Clause C3.8 | Mandatory Requirements | Evaluate on functionality or the technical aspect of the bid | Evaluate price and Preference | Post tender negotiations (if applicable) | | | | | | | |

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| | <p>B. Only Tenderers who are <u>actively</u> registered with the CIDB in a Tenderer grading designation of 8CE will be accepted.</p> <p>C. Fully Signed Form of Offer from C1.1</p> <p>Stage 3 Functionality Evaluation Criteria</p> <p>Functionality is the terminology used to define the technical ability of the Tenderer, based on experience to deliver the required product in accordance with the specialised quality, reliability and functionality.</p> <p>Points allocated for Functionality shall be evaluated in accordance with the criteria as listed below. An overall minimum threshold of 75 points out of 100 must be achieved for the tender to be eligible for further evaluation on Price and Preference 90/10 split.</p> |
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FUNCTIONALITY EVALUATION

The evaluation criteria will consider company experience and key staff experience including competences.

1. For the purposes of evaluation, relevant experience shall be defined as follows:
 - 1.1. Wet Services
 - (a) Bulk water supply pipeline installation or/and
 - (b) Water reticulation projects or/and
 - (c) Water pump station project
 - (d) All listed projects **must** be completed to be considered for this evaluation
 - (e) Listed Projects must have a minimum construction project value of R30 000 000,00 including VAT each.
 - 1.2. Service Roads:
 - (a) Asphalt Road Construction Projects or/and
 - (b) Rehabilitation of asphalt roads or/and
 - (c) Special Maintenance Projects if project includes rehabilitation or overlays
 - (d) All listed projects **must** be completed to be considered for this evaluation
 - (e) Listed Projects must have a minimum construction project value of R30 000 000,00 including VAT each.
2. **Company Experience Requirements:** For evaluation purposes, bidders must demonstrate experience in either/both wet services and service roads experience. Bidders may form a Joint Venture (JV) or consortium to meet this requirement – sub-contracting to meet this requirement will not be accepted. Bidders are to use **Form A6** to demonstrate the required experience for this evaluation. **Listed projects must have a Minimum Construction Project Value of R30 000 000,00 including VAT per project.**

Points allocation shall be as follows:

- 2.1. Wet services
 - (a) 10 Points per project
 - (b) Maximum of two (2) relevant projects (see section 1.1. above for relevant projects) **must** be listed in **Form A6** to score maximum of 20 points for this section.
 - (c) Form A6 **must** be duly completed to meet the requirements in this section. The bidder will not be evaluated if the projects are not listed in form A6.

2.2 Service Roads

- (a) 10 Points per project
- (b) Maximum of two (2) relevant projects (see section 1.2. above for relevant projects) **must** be listed in form A6 to score a maximum of 20 points for this section.
- (c) Form A6 **must** be duly completed to meet the requirements in this section. **The bidder will not be evaluated if the projects are not listed in form A6.**

3. **Construction manager Requirements:** Bidders must submit project experience demonstrating that the proposed individual has experience in either/both wet services and service roads. Bidders may submit one or two individual(s) to satisfy this requirement.

The Construction Manager(s) must be professionally registered with the South African Council for the Project and Construction Management Professions (SACPCMP) as a Professional Construction Manager (Pr CM) or Professional Construction Project Manager (Pr CPM), or registered with the Engineering Council of South Africa (ECSA) as a Professional Engineer (Pr Eng), Professional Engineering Technologist (Pr Tech), or Professional Engineering Technician (Pr Techni). Key personnel who do not hold one of these professional registrations (Pr CM, Pr CPM, Pr Eng, Pr Tech, or Pr Techni) will not be evaluated. **If the bidder elects to submit two individuals to meet this requirement both individuals must be registered per this section.**

Listed projects must have a Minimum Construction Project Value of R30 000 000,00 including VAT per project.

Points shall be allocated as follows:

3.1. Wet services

- (d) 12.5 Points per project
- (e) Maximum of two (2) relevant projects (see section 1.1. above for relevant projects) must be listed in form A8 to score maximum of 25 points for this section.

3.2. Service Roads

- (d) 12.5 Points per project
- (e) Maximum of two (2) relevant projects (see section 1.2. above for relevant projects) may be listed in form A8 to score a maximum of 25 points for this section.

4. **Health and Safety Officer requirements:** bidders must submit proof that the proposed individual is registered with the South African Council for the Project and Construction Management Professions (SACPCMP) as a Construction Health and Safety Officer (CHSO) or Construction Health and Safety manager (CHSM). The CHSO or CHSM will **not** be evaluated without valid proof of SACPCMP registration.

In addition to the above, to earn points, the CHSO or CHSM must provide project experience related to built-environment construction projects. **Listed projects must have a Minimum Construction Project Value of R30 000 000,00 including VAT per project**

Points shall be allocated as follows:

- 4.1. 5 points per project
- 4.2. Maximum of two (2) construction project listed in form A9 to score a maximum of 10 points for this section.

- 4.3. All listed projects must be completed to be considered for this evaluation
- 4.4. Relevant projects for the construction health and safety officer shall be any built-environment construction project that is completed. No incomplete project will be accepted for evaluation.
5. Points allocation:

| Evaluation criterion for Contractor appointment Underground Main Waterline and Service Road Project at BFIA | | | |
|---|---------------------------|-----------------------|-----------------------|
| Description | Points per project | Maximum Points | Minimum Points |
| Company Experience Wet Services - Bidder must provide a maximum of two relevant project references for evaluation. | 10 | 20 | 75 |
| Company Experience Service Roads - Bidder must provide a maximum of two relevant project references for evaluation. | 10 | 20 | |
| Construction Manager Wet Service - Bidder must provide a maximum of two relevant project references for evaluation. | 12,5 | 25 | |
| Construction Manager Service Roads - Bidder must provide a maximum of two relevant project references for evaluation. | 12,5 | 25 | |
| Health & Safety Officer - Bidder must provide a maximum of two relevant project references for evaluation. | 5 | 10 | |

6. Bidders **must** provide project completion certificates and/or reference letters for proof of company experience. Award letters will NOT be accepted as proof of project completion.
7. Returnable Form A6 **must** be completed for purposes of technical evaluation if the form is not completed no points will be awarded. Projects listed on form A6 must correspond to the to completion certificates and/or project reference letters for points to be allocated.



8. It is the Bidders responsibility to ensure that the above description regarding the project relevance is clearly articulated in **Form A6 (for Company Experience), Form A8 (Construction Manager Experience) and Form A9 (Health and Safety Officer)**.

8.1. All forms must be duly complete to meet the requirements of this section.

8.2. For the purpose of this tender, “duly completed” means that all required information relating to each project is fully and accurately provided to enable the Employer to assess and evaluate the bidder’s experience.

8.3. Bidders will not be evaluated if:

- (i) Projects are not listed in form A6, form A8, and Form A9 or
- (ii) Forms are submitted incomplete with missing critical information (such as project value, description, client contact details, date of completion) or completed in a manner that prevents proper evaluation.

8.4. Forms that are merely signed but do not contain sufficient, relevant, and verifiable information will be deemed non-responsive for evaluation purposes.

9. Bidders must also ensure that all references provided per project in form A6 are contactable.

| <p>Stage 4 Price and Preference</p> <p>This is the final stage of the evaluation process and will be based on the PPPFA preference point system. Bidders will be ranked by applying the preferential point scoring <i>90/10 for bids with the rand value above R50 million</i>. A maximum of 90 points is allocated for price based on the following formulae (delete formula not applicable):</p> $Ps = 90 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$ <p>Where:</p> <p>Ps = Points scored for price of tender under consideration Pt = Price of tender under consideration Pmin = Price of lowest acceptable tender</p> <p>Evaluation of Preference</p> <p>ACSA will score specific goals out of 10 in accordance with the PPP Regulations 2022/2023. If a bidder fails to meet the Specific goals as outlined on the table below and to submit proof, the bidder will score zero (0) out of 10. ACSA will not disqualify the bidder. See below Specific goals that must be achieved for this bid:</p> <table border="1"> <thead> <tr> <th>Specific Goals</th> <th>Number of points (90/10 system)</th> </tr> </thead> <tbody> <tr> <td>B-BBEE Status Level 1</td> <td>5</td> </tr> <tr> <td>B-BBEE Status Level 2</td> <td>4.5</td> </tr> <tr> <td>B-BBEE Status Level 3</td> <td>4</td> </tr> </tbody> </table> | | Specific Goals | Number of points (90/10 system) | B-BBEE Status Level 1 | 5 | B-BBEE Status Level 2 | 4.5 | B-BBEE Status Level 3 | 4 |
|--|--|-----------------------|--|------------------------------|----------|------------------------------|------------|------------------------------|----------|
| Specific Goals | Number of points (90/10 system) | | | | | | | | |
| B-BBEE Status Level 1 | 5 | | | | | | | | |
| B-BBEE Status Level 2 | 4.5 | | | | | | | | |
| B-BBEE Status Level 3 | 4 | | | | | | | | |

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|--|---|-------------------------------------|----------|-------------------------------------|----------|-------------------------------------|------------|-------------------------------------|------------|-------------------------------------|------------|---|----------|---|----------|--|----------|--|----------|---|----------|--|
| | <table border="1"> <tr> <td><i>B-BBEE Status Level 4</i></td> <td>3</td> </tr> <tr> <td><i>B-BBEE Status Level 5</i></td> <td>2</td> </tr> <tr> <td><i>B-BBEE Status Level 6</i></td> <td>0.5</td> </tr> <tr> <td><i>B-BBEE Status Level 7</i></td> <td>0.3</td> </tr> <tr> <td><i>B-BBEE Status Level 8</i></td> <td>0.1</td> </tr> <tr> <td><i>Black youth majority-owned entities</i></td> <td>5</td> </tr> <tr> <td><i>Black women majority-owned entities</i></td> <td>5</td> </tr> <tr> <td><i>Company majority owned by people with disabilities</i></td> <td>5</td> </tr> <tr> <td>Sub-contracting of South African EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people</td> <td>5</td> </tr> <tr> <td><i>Non-compliant contributor</i></td> <td>0</td> </tr> </table> <p>Bidder to provide proof to support The Preference Points being Claimed.</p> <p>a) Provide original or certified copy Valid sworn Affidavit OR</p> <p>b) B-BBEE Certificate from a SANAS accredited rating agency</p> <ul style="list-style-type: none"> If bidder is a Joint Venture (JV) – a <u>consolidated</u> B-BBEE certificate from a SANAS accredited agency must be provided <p>as prescribed by the B-BBEE Act and its relevant/most recent Codes of Good Practice</p> <p>a) Any other supporting information..</p> <p>IN ORDER TO SCORE FOR PREFERENCE POINTS, BIDDER MUST PROVIDE SUPPORTING INFORMATION (PROOF) THAT IS RELEVANT TO THE SPECIFIC GOALS.</p> | <i>B-BBEE Status Level 4</i> | 3 | <i>B-BBEE Status Level 5</i> | 2 | <i>B-BBEE Status Level 6</i> | 0.5 | <i>B-BBEE Status Level 7</i> | 0.3 | <i>B-BBEE Status Level 8</i> | 0.1 | <i>Black youth majority-owned entities</i> | 5 | <i>Black women majority-owned entities</i> | 5 | <i>Company majority owned by people with disabilities</i> | 5 | Sub-contracting of South African EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people | 5 | <i>Non-compliant contributor</i> | 0 | |
| <i>B-BBEE Status Level 4</i> | 3 | | | | | | | | | | | | | | | | | | | | | |
| <i>B-BBEE Status Level 5</i> | 2 | | | | | | | | | | | | | | | | | | | | | |
| <i>B-BBEE Status Level 6</i> | 0.5 | | | | | | | | | | | | | | | | | | | | | |
| <i>B-BBEE Status Level 7</i> | 0.3 | | | | | | | | | | | | | | | | | | | | | |
| <i>B-BBEE Status Level 8</i> | 0.1 | | | | | | | | | | | | | | | | | | | | | |
| <i>Black youth majority-owned entities</i> | 5 | | | | | | | | | | | | | | | | | | | | | |
| <i>Black women majority-owned entities</i> | 5 | | | | | | | | | | | | | | | | | | | | | |
| <i>Company majority owned by people with disabilities</i> | 5 | | | | | | | | | | | | | | | | | | | | | |
| Sub-contracting of South African EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people | 5 | | | | | | | | | | | | | | | | | | | | | |
| <i>Non-compliant contributor</i> | 0 | | | | | | | | | | | | | | | | | | | | | |
| C.3.12 | <p>Insurance provided by the Employer</p> <p>Refer to Contract Data</p> | | | | | | | | | | | | | | | | | | | | | |
| C.3.13 | <p>C.3.13 Acceptance of tender offer</p> <p>Accept the tender offer; if in the opinion of the Employer, it does not present any risk and only if the tenderer:</p> <ol style="list-style-type: none"> is not under restrictions, or has principals who are under restrictions, preventing participating in the Employer's procurement; can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract; has the legal capacity to enter into the contract; is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing; complies with the legal requirements, if any, stated in the tender data; and is able, in the opinion of the Employer, to perform the contract free of conflicts of interest. | | | | | | | | | | | | | | | | | | | | | |

T1.3 Standard Conditions of Tender (Annex C of CIDB SFU)

C.1 General

C.1.1 Actions

C.1.1.1 The Employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

C.1.1.2 The Employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the Employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note: 1) A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.

2) Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.

C.1.1.3 The Employer shall not seek and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

C.1.2 Tender Documents

The documents issued by the Employer for the purpose of a tender offer are listed in the tender data.

C.1.3 Interpretation

C.1.3.1 The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

C.1.3.2 These conditions of tender, the tender data and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the invitation to tender.

C.1.3.3 For the purposes of these conditions of tender, the following definitions apply:

- a) **conflict of interest** means any situation in which:
 - i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfill his or her duties impartially;
 - ii) an individual or tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
 - iii) incompatibility or contradictory interests exist between an employee and the tenderer who employs that employee.

- b) **comparative offer** means the price after the factors of a non-firm price and all unconditional discounts it can be utilized to have been taken into consideration;
- c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the Employer or his staff or agents in the tender process;
- d) **fraudulent practice** means misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the Employer, including collusive practices intended to establish prices at artificial levels;

C.1.4 Communication and Employer's agent

Each communication between the Employer and a tenderer shall be to or from the Employer's agent only, and in a form that can be readily read, copied and recorded. [Communications shall be in the English language. The Employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the Employer's agent are stated in the tender data.

C.1.5 Cancellation and Re-Invitation of Tenders

C.1.5.1 An Employer may, prior to the award of the tender, cancel a tender if-

- a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
- b) funds are no longer available to cover the total envisaged expenditure; or
- c) no acceptable tenders are received.
- d) there is a material irregularity in the tender process.

C.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised

C.1.5.3 An Employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

C.1.6 Procurement procedures

C.1.6.1 General

Unless otherwise stated in the tender data, a contract will, subject to C.3.13, be concluded with the tenderer who in terms of C.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

C.1.6.2 Competitive negotiation procedure

C.1.6.2.1 Where the tender data require that the competitive negotiation procedure is to be followed, tenderers shall submit tender offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of C.3.4, the Employer shall announce only the names of the tenderers who make a submission. The requirements of C.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.

C.1.6.2.2 All responsive tenderers or at least a minimum of not less than three responsive tenderers that are highest ranked in terms of the evaluation criteria stated in the tender data shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information.

Notwithstanding the provisions of C.2.17, the Employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.

C.1.6.2.3 At the conclusion of each round of negotiations, tenderers shall be invited by the Employer to revise their tender offer based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.

C.1.6.2.4 The contract shall be awarded in accordance with the provisions of C.3.11 and C.3.13 after tenderers have been requested to submit their best and final offer.

C.1.6.3 Proposal procedure using the two stage-system

C.1.6.3.1 Option 1

Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The Employer shall evaluate each responsive submission in terms of the method of evaluation stated in the tender data, and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these conditions of tender.

C.1.6.3.2 Option 2

C.1.6.3.2.1 Tenderers shall submit in the first stage only technical proposals. The Employer shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.

C.1.6.3.2.2 The Employer shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the tender data, and award the contract in terms of these conditions of tender.

C.2 Tenderer's obligations

C.2.1 Eligibility

C.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with Employer.

C.2.1.2 Notify the Employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the Employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the Employer's written approval to do so prior to the closing time for tenders.

C.2.2 Cost of tendering

C.2.2.1 Accept that, unless otherwise stated in the tender data, the Employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs

of any testing necessary to demonstrate that aspects of the offer complies with requirements.

C.2.2.2 The cost of the tender documents charged by the Employer shall be limited to the actual cost incurred by the Employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.

C.2.3 Check documents

Check the tender documents on receipt for completeness and notify the Employer of any discrepancy or omission.

C.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the Employer only for the purpose of preparing and submitting a tender offer in response to the invitation.

C.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

C.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the tender documents, which the Employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

C.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.

C.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the Employer at least five (5) working days before the closing time stated in the tender data.

C.2.9 Insurance

Be aware that the extent of insurance to be provided by the Employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.

C.2.10 Pricing the tender offer

C.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable fourteen (14) days before the closing time stated in the tender data.

C.2.10.2 Show VAT payable by the Employer separately as an addition to the tendered total of the prices.

C.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.

C.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

C.2.11 Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the Employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

C.2.12 Alternative tender offers

C.2.12.1 Unless otherwise stated in the tender data, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

C.2.12.2 Accept that an alternative tender offer must be based only on the criteria stated in the tender data or criteria otherwise acceptable to the Employer.

C.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning tender.

C.2.13 Submitting a tender offer

C.2.13.1 Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

C.2.13.2 Return all returnable documents to the Employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

C.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the Employer.

C.2.13.4 Sign the original and all copies of the tender offer where required in terms of the tender data. The Employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the Employer shall hold liable for the purpose of the tender offer.

C.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the Employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

C.2.13.6 Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the Employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

C.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the Employer's address and identification details as stated in the tender data.

C.2.13.8 Accept that the Employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

C.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the Employer, unless stated otherwise in the tender data.

C.2.14 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and, in the form, required, may be regarded by the Employer as non-responsive.

C.2.15 Closing time

C.2.15.1 Ensure that the Employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

C.2.15.2 Accept that, if the Employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline.

C.2.16 Tender offer validity

C.2.16.1 Hold the tender offer(s) valid for acceptance by the Employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

C.2.16.2 If requested by the Employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.

C.2.16.3 Accept that a tender submission that has been submitted to the Employer may only be withdrawn or substituted by giving the Employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the Employer evaluates tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).

C.2.16.4 Where a tender submission is to be substituted, a tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as "SUBSTITUTE".

C.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the Employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: *Sub-clause C.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.*

C.2.18 Provide other material

C.2.18.1 Provide, on request by the Employer, any other material that has a bearing on the tender offer,

the tender's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the Employer for the purpose of a full and fair risk assessment.

Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the Employer's request, the Employer may regard the tender offer as non-responsive.

C.2.18.2 Dispose of samples of materials provided for evaluation by the Employer, where required.

C.2.19 Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

C.2.20 Submit securities, bonds and policies

If requested, submit for the Employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

C.2.21 Check final draft

Check the final draft of the contract provided by the Employer within the time available for the Employer to issue the contract.

C.2.22 Return of other tender documents

If so instructed by the Employer, return all retained tender documents within twenty-eight (28) days after the expiry of the validity period stated in the tender data.

C.2.23 Certificates

Include in the tender submission or provide the Employer with any certificates as stated in the tender data.

C.3 The Employer's undertakings

C.3.1 Respond to requests from the tenderer

C.3.1.1 Unless otherwise stated in the tender Data, respond to a request for clarification received up to five (5) working days before the tender closing time stated in the Tender Data and notify all tenderers who collected tender documents.

C.3.1.2 Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence:

- a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;
- b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
- c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

C.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until ten (10) working days before the tender closing time stated in the Tender Data. If, as a result, a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who collected tender documents.

C.3.3 Return late tender offers

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.

C.3.4 Opening of tender submissions

C.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

C.3.4.2 Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each tenderer whose tender offer is opened and where applicable, the total of his prices, number of points claimed for its BBBEE status level and time for completion for the main tender offer only.

C.3.4.3 Make available the record outlined in C.3.4.2 to all interested people upon request.

C.3.5 Two-envelope system

C.3.5.1 Where stated in the tender data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data and announce the name of each tenderer whose technical proposal is opened.

C.3.5.2 Evaluate the functionality of the technical proposals offered by tenderers, then advise tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the functionality evaluation more than the minimum number of points for functionality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any points claimed on BBBEE status level. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for functionality.

C.3.6 Non-disclosure

Not disclosing to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

C.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or

fraudulent practices.

C.3.8 Test for responsiveness

C.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

C.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

C.3.9 Arithmetical errors, omissions and discrepancies

C.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

C.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the pricing schedule or bills of quantities; or
- c) arithmetic errors in:
 - (i) line-item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
 - (ii) the summation of the prices.

C.3.9.3 Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.

C.3.9.4 Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:

- a) If bills of quantities or pricing schedules apply and there is an error in the line-item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line-item total as quoted shall govern, and the unit rate shall be corrected.

- b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern, and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

C.3.10 Clarification of a tender offer

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

C.3.11 Evaluation of tender offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the Tender Data associated with a specific project.

Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the Employer's undertakings in soliciting and evaluating tender offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require Employers to conduct the process of offer and acceptance in terms of a set of standard procedures.

| The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements: | |
|---|--|
| Requirement | Qualitative interpretation of goal |
| Fair | The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information. |
| Equitable | Terms and conditions for performing the work do not unfairly prejudice the interests of the parties. |
| Transparent | The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the Employer, lack of capability or capacity, legal impediments and conflicts of interest. |
| Competitive | The system provides for appropriate levels of competition to ensure cost effective and best value outcomes. |
| Cost effective | The processes, procedures and methods are standardized with sufficient flexibility to attain best value outcomes in respect of quality, timing and price, and least resources to effectively manage and control procurement processes. |

The activities associated with evaluating tender offers are as follows:

- a) Open and record tender offers received
- b) Determine whether or not tender offers are complete
- c) Determine whether or not tender offers are responsive
- d) Evaluate tender offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred tenderer
- g) Prepare a tender evaluation report
- h) Confirm the recommendation contained in the tender evaluation report

C.3.11.1 General

The Employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data.

C.3.12 Insurance provided by the Employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the contract data, require the Employer to provide.

C.3.13 Acceptance of tender offer

Accept the tender offer; if in the opinion of the Employer, it does not present any risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the Employer's procurement;
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract;
- c) has the legal capacity to enter into the contract;
- d) is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing;
- e) complies with the legal requirements, if any, stated in the tender data; and
- f) is able, in the opinion of the Employer, to perform the contract free of conflicts of interest.

C.3.14 Prepare contract documents

C.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the Employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents and
- c) other revisions agreed between the Employer and the successful tenderer.

C.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

C.3.15 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

C.3.16 Registration of the award

An Employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the Employer, register and publish the award on the CIDB Register of Projects.

C.3.17 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

C.3.18 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

Part T2: Returnable Documents

T2: List of Returnable Documents and Schedules

| The tenderer must complete the following returnable documents: | Completed (tick) |
|--|-----------------------------|
| 1 Returnable Schedules required for tender evaluation purposes only | |
| A1: Certificate of Attendance of the Compulsory Briefing Session; and Bidder must sign the Attendance Register. | |
| A2: Record of Addenda to Tender Documents | |
| A3: Proposed Amendments and Qualifications | |
| A4: Certificate of Authority for Signatory | |
| A5: Certificate of Authority for Joint Ventures (<i>where applicable</i>) | |
| A6: Schedule of the Tenderer's Recent Experience | |
| A7: Client Reference Letters of Previous Projects Completed | |
| A8: CVs and Experience of Key Personnel – Construction Manager(s) | |
| A9: CVs and Experience of Key Personnel – Health and Safety Officer | |
| A10: Proof of Qualifications | |
| A11: Proof of Professional Registration (ECSCA / SACPCMP) | |
| A12: Project CPG Approach | |
| A13: B.U.I.L.D Contract Skills Development Goals (CSDG) | |
| A14: CIDB Registration Certificate | |
| A15: Letter of Good Standing with the Workers Compensation Commissioner | |
| A16: Terms and Conditions of Request for Proposals (RFP) | |
| A17: ACSA Terms and Conditions of RFP and Bidders Particulars | |
| A18: SBD 4: Bidder's Disclosure Form | |
| A19: SBD 6.1: Preference points claim form in terms of Preferential Procurement Regulations | |
| A20: Confidentiality and Non-Disclosure Agreement | |
| A21: Declaration Of Interest and Politically Exposed Persons Form | |
| A22: Declaration Of Forbidden Practices Form | |
| A23: Insurance Commitment | |
| 2 Other documents required only for tender evaluation purposes | |
| SARS Pin issued by the South African Revenue Services. | |
| B1: Bank Letter: Letter of Good Standing from Bidder's Bank preferably with bank rating for tender sum. | |
| B2: Central Supplier Database (CSD) proof of registration. | |
| B3: Letter of Solvency: Bidder to provide a Letter of Solvency from auditors or accountants | |
| B4: CIPC Registration documents, Partnership Agreement, JV Agreement and/or Registered Trust Document | |
| B5: Identity documents of all Shareholders, Directors, Members, Trustees or Partners | |
| B6: 3 Returnable Schedules & Documents required for tender evaluation purposes that will be incorporated into the contract | |
| C1: Compulsory Enterprise Questionnaire | |
| C2: Schedule of Proposed Domestic Subcontractors (<i>if applicable</i>) | |
| C3: Plant and Equipment | |
| C4: B-BBEE Verification Certificate and B-BBEE Report OR Sworn Affidavit | |
| 4 The Contract | |
| In Contract Document: C1.1 Form of Offer and Acceptance | |
| In Contract Document: C2.2 Activity/Pricing Schedules | |



FORM A1. Certificate of Attendance of the Compulsory Briefing Session

This is to certify that

I,

Representative of (tenderer).....

.....

of (address).....

.....

.....

e-mail

telephone number

cell number.....

visited the compulsory brief session held on date.....

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |

| | |
|--------------------------------|--|
| Signed by ACSA Representative: | |
| Name: | |

FORM A2. Record of Addenda to Tender Documents

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

| | Date | Title or Details |
|-----|------|------------------|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |
| 10. | | |

Attach additional pages if more space is required.

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



FORM A3: Proposed Amendments and Qualifications

The Tenderer shall record any deviations or qualifications he/she may wish to make to the tender documents in this Returnable Schedule. The Tenderer’s attention is drawn to Terms and conditions of the tender regarding the Employer’s handling of material deviations and qualifications.

| Page | Clause or item | Proposal |
|------|----------------|----------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Attach additional pages if more space is required.

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



Form A4. Certificate of Authority for Signatory

- (1) Signatories for close corporations and companies shall confirm their authority by **attaching to this form a duly signed and dated copy of the relevant resolution of their members or their board of directors, as the case may be.**
- (2) In the event that the tenderer is a joint venture, a certificate of authority for **signatories (Form A4)** is required from all members of the joint venture and the designated lead member shall be clearly identified as requested by tender condition C2.13.4.

An example is shown below:

"By resolution of the board of directors taken on 20.....

Mr/Ms

whose signature appear below, has been duly authorized to sign all documents in connection with this tender for Tender number **BFIA8202/2026** and any contract which may arise there from on behalf of

(block capitals)

Signed on behalf of Company:

In his/her capacity as:

Date:..... Signatory of Authority:

Witnesses:

.....
Signature

.....
Signature

.....
Name (print)

.....
Name (print)

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



FORM A5. Certificate of Authority of JOINT VENTURES (where applicable)

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms
 , authorised signatory of the company
 , acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

Please attach JV agreement stipulation % share of each JV

| NAME OF FIRM | ADDRESS | DULY AUTHORISED SIGNATORY |
|--------------|---------|---|
| Lead partner | | Signature: Name: Designation: |
| | | Signature: Name: Designation: |
| | | Signature: Name: Designation: |

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |

FORM A6. Schedule of the Tenderer's Recent Experience (Completed Projects)

Bidders are referred to clause C.3.11 Functionality Evaluation - which indicates the maximum possible score for information requested under this schedule.

The description should be put in tabular form with the following headings:

| | Project Name | Project Description | Client Contactable Reference (Client and referee name, email and telephone details for referee) | Project Duration (dd/mm/year) to (dd/mm/year) | Construction value (inclusive of VAT) |
|---------------------------------|--------------|---------------------|---|---|---------------------------------------|
| Wet Services Experience | | | | | |
| 1 | | | | | |
| 2 | | | | | |
| Service Roads Experience | | | | | |
| 1 | | | | | |
| 2 | | | | | |

Note: When completing the above schedule, Tenderer's must take cognisance of the evaluation criteria as described in the Tender Data, Clause C.3.11 Stage 3 Functionality

The undersigned, who warrants that he / she is duly authorized to do so on behalf of the enterprise, confirms that the contents of this schedule are within my personal knowledge and are to the best of my belief both true and correct.

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



FORM A7. Client/Trade Reference Letters or completion certificates of Previous Projects Completed

REFER FUNCTIONALITY CRITERIA FOR INFORMATION THAT MUST BE CONTAINED IN THE CLIENT REFERENCE LETTERS.

Please attach Client Reference Letters and or Fully signed completion certificates of Previous Projects Completed, as listed in Form A6 above, to this page.

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |

FORM A8 The Summary CV of key personnel: Construction Manager

 Bidders are referred to clause C.3.11 Functionality Evaluation - which indicates the maximum possible score for information requested under this schedule.

| | Project Name | Project Description | Client Reference | Contactable | Project Duration (dd/mm/year) to (dd/mm/year) | Construction value (inclusive of VAT) |
|--|--------------|---------------------|------------------|-------------|--|--|
| Wet Services Experience – Name of Key Personnel: _____ Pr Registration Number: _____ | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| Service Roads Experience – Name of Key Personnel: _____ Pr Registration Number: _____ | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |

Commitment to the Project

 The undersigned commits himself / herself to the overall project. He/she does not intend to cancel his/her contract or to leave the company which employs him/her within the overall duration of this project. Should the person stated above not be available for the Contract (for a *bona fide* reason), a person of at least the same experience and qualifications will need to be submitted for approval prior to taking up the position.

Note: When completing the above schedule, Tenderer's must be cognisant of the evaluation criteria as described in the Tender Data, Clause C3.11

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |

FORM A9 The Summary of CV of key personnel: Construction Health and Safety Officer/Manager

Name and Surname of Key person: _____ Pr Registration Number: _____

 Bidders are referred to clause C.3.11 Functionality Evaluation - which indicates the maximum possible score for information requested under this schedule.

| | Project Name | Project Description | Client Reference | Contactable | Project Duration (dd/mm/year) to (dd/mm/year) | Construction value (inclusive of VAT) |
|---|--------------|---------------------|------------------|-------------|---|---------------------------------------|
| 1 | | | | | | |
| 2 | | | | | | |

Commitment to the Project

 The undersigned commits himself / herself to the overall project. He/she does not intend to cancel his/her contract or to leave the company which employs him/her within the overall duration of this project. Should the person stated above not be available for the Contract (for a *bona fide* reason), a person of at least the same experience and qualifications will need to be submitted for approval prior to taking up the position.

Note: When completing the above schedule, Tenderer's must be cognisant of the evaluation criteria as described in the Tender Data, Clause C3.11

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



AIRPORTS COMPANY
SOUTH AFRICA

FORM A10: Proof of Qualifications

Please attach proof of Qualifications to this page

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



FORM A11: Proof of Professional Registration (ECSA / SACPCMP)

Please attach proof of Professional Registration with statutory bodies to this page

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



FORM A12: Project CPG Approach

TRANSFORMATION FRAMEWORK & SPECIFICATION FORM

1. Contract Participation Goals (CPG)
CPG refers to the extent to which the contracted resources achieve predetermined transformation objectives, expressed as a percentage (%) of the contract value. Bidders are expected to achieve this target by the end of the project. CPG for this contract is 30%.
2. Bidders are to submit to submit a transformation proposal meeting the CPG target for this contract.
3. 30% of the contract amount will be allocated to enterprises that are women owned, youth owned, PWPDO, or allocate to EME, QSE that are 51% black owned entities.
4. To facilitate achievement of target set out in 3, and transfer of skills, the tenderer **must** subcontract a minimum of **5%** of the contract value to CIDB Grade 1 to 6 CE contractors that are women owned, youth owned, PWPDO, or allocate to EME, QSE that are 51% black owned entities.

This is inline with the Standard for Indirect Targeting for Enterprise Development through Construction works Contracts, published in Gazette Notice No. 36190 of 25 February 2013.

5. In the event that the Contractor fails to substantiate that any failure to achieve the contract participation goal relating to the granting of a preference was due to quantitative underruns, the elimination of items, or any other reason beyond the Contractor’s control which may be acceptable to the Employer, the Contractor/Consultant shall be liable to pay to the Employer a financial penalty calculated in the following manner:

$$P = (0,15 \times (D - Do) \times CA) / 100$$

- where D is the tendered contract participation goal percentage;
- Do is the contract participation goal which the Employer’s representative, certifies based on the credits passed, as being achieved upon completion of the contract;
- CA is the contract amount.
- P is the monetary value of penalty payable

No financial award is due for over performance on CPG.

6. Acceptance:

I/We _____ acknowledge that I/we have read and understood the contents of this section and we affirm our commitment to achieve the Contract Participation Targets per form A12 of this document.

Signed: Date:

Name: Position:

Tenderer:



FORM A13: B.U.I.L.D Contract Skills Development Goals (CSDG)

The contractor shall achieve in the performance of the contract the Contract Skills Development Goals as stated in the Standard For Developing Skills through Infrastructure Contracts (Published in GN 48491 of 28 April 2023)

CSDG shall be achieved in the performance of a contract in relation to the provision of different types of workplace opportunities linked to work associated with a contract which culminate in or lead to:

- a) **Method 1:** a part- or full occupational qualification registered on the National Qualification Framework;
- b) **Method 2:** a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012);
- c) **Method 3:** a national diploma registered on the National Qualification Framework; and
- d) **Method 4:** registration in a professional category by one of the professional bodies listed in the standard.

Bidders shall commit to achieving the contract skills development goal and are provided with a number of methods for measuring their achievements. Bidders may, if need be, devolve their obligations onto subcontractors.

The Construction Skills Development Goal shall be a minimum of 0.25% of the contract value for this contract. The contractor shall make use of the table below in preparing a proposal on how the CSDG will be met in this contract.

By signing this form, the bidder commits to meeting the CSDG goals during the performance of the contract as set out in this form and in the **Standard For Developing Skills through Infrastructure Contracts (Published in GN 48491 of 28 April 2023)**. The bidder further understands and accepts the contents of the Standard for Developing skills through Infrastructure Contracts (Published in GN 48491 of 28 April 2023)

Signed: Date:

Name: Position:

Tenderer:



AIRPORTS COMPANY
SOUTH AFRICA
Total Notional Cost over 12 Months
Contract (Rand)

| Skills Types | Number of Learners | *Notional Cost/ Learner/ Quarter (Rand) | Notional Cost /learner/ year (Rand) | Total Notional Cost over 12 Months Contract (Rand) |
|--|--------------------|---|-------------------------------------|--|
| Method 1: a part- or full occupational qualification registered on the National Qualification Framework; | | | | |
| Method 2: a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012); | | | | |
| Method 3: a national diploma registered on the National Qualification Framework; | | | | |
| Method 4: registration in a professional category by one of the professional bodies listed in the standard. | | | | |
| Total Cost (Cost of CSDG) | | | | |
| CSDG Score % (Total cost of CSDG/Contract value Excluding VAT) | | | | |



FORM A14: CIDB Registration Certificate

Attach certified copy of Certificate of Tenderer's Registration issued by the Construction Industry Development Board (CIDB) here.

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



FORM A15: Letter of Good Standing with the Workers Compensation Commissioner

Attach letter of good standing with Workmen's Compensation in accordance with the *Compensation for Occupational Injuries and Diseases Act, 1993* – COIDA.

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |

FORM A16. Terms and Conditions of RFP

1 Conditions of the request for proposal

- 1.1 This RFP is open only to bidders who are registered and duly authorised to provide the Services in South Africa.
- 1.2 Any bids received after the tender closing date and time **24th of July 2026 at 12:00pm** shall not be considered by ACSA and therefore be disqualified. These bids shall be retained unopened and destroyed after the award of the contract to the successful bidder unless a written request for the return thereof is received from the relevant bidder within thirty (30) days of the award.
- 1.3 Except where specifically provided for in this RFP, a bidder may make no changes to its bid after the closing time and date.
- 1.4 ACSA reserves the right to award the contract on the basis of bid submitted by a bidder subject to ACSA's terms and conditions and by submission of its bid the bidder agrees to be legally bound thereby if its bid is accepted by ACSA.
- 1.5 ACSA or its duly appointed representatives shall be the sole adjudicators of the acceptability and or feasibility of the bids. The decision shall be final and except as required by law or otherwise, no reason for the acceptance or rejection of any bid will be furnished.
- 1.6 If the bid has been awarded on the strength of information furnished by a Bidder, which information is proved to have been incorrect, in addition to any other legal remedy it may have, ACSA may at any time during the life of the contract:
 - a) Recover from the relevant bidder all costs, losses or damages incurred by it as a result of the award; and/or
 - b) Cancel the award of the bid and/or contract and claim any damages, which it may have suffered or will suffer as a result of having to make less favourable arrangements.
- 1.7 The Bidder shall be liable to pay for losses sustained and/or additional costs or expenditure incurred by ACSA as a result of cancellation. ACSA shall furthermore have the right to recover such losses, damages or additional costs by way of set off against monies due or which may become due to the Bidder in terms of the said contract.
- 1.8 If ACSA and the successful Bidder fail to enter into or execute a formal written contract within thirty (30) days of the award (or such later date as may be determined by ACSA as a result of the bidder's failure to comply with any representation made in the bidder's bid, then the award shall be deemed null and void. ACSA's aforesaid rights are without prejudice and in addition to any other rights that ACSA may have in order to claim damages. For the avoidance of doubt, in the event the bid of a successful bidder is



accepted by ACSA, no agreement shall come into being until the formal contract has been negotiated and executed between ACSA and the successful bidder.

- 1.9 ACSA reserves the right to amend the terms and conditions of this RFP at any time prior to finalisation of the contract between the parties and shall not be liable to any bidder or any other person for damages of whatsoever nature which they may have suffered as a result of such amendment. All bids are submitted at the entire risk of the bidder.
- 1.10 All representations, agreements or arrangements arising from bids submitted in terms hereof (including any negotiations that follow) shall not be binding on ACSA, its officers, employees or agents unless reduced to writing and signed by a duly authorised representative of ACSA.
- 1.11 ACSA reserves the right to postpone the closing date for submission of bids or to withdraw the RFP at any time.
- 1.12 Appendix 1 must be executed in the name of the business actually proposing to perform the Services if awarded the contract. Appendix 1 must be signed by an authorised representative of the bidder.
- 1.13 In the case of a joint venture or partnership between The Service Provider, evidence of such a joint venture must be included in the bid in the form of a Joint Venture Agreement or Memorandum of Understanding. Each member of the joint venture may complete and sign Appendix 1. Alternatively, all the members of the joint venture may in writing nominate one member of the joint venture to complete and sign Appendix 1 on behalf of the joint venture. This written authority must be signed by duly authorised members of the joint venture and be submitted with the proposal.

1 Binding Arbitration Provision

- 2.1 It is a condition of participation in this RFP process between the bidder and ACSA that should any dispute or difference arise between the parties, this shall be resolved by a single Arbitrator -
 - Concerning the purport or effect of the RFP documents or of anything required to be done or performed there under;
 - Concerning any aspect of the RFP process to anything done or decided there under:
or
 - Concerning the validity of the award of the RFP to any bidder or the failure to award same to any Bidder, then such dispute or difference shall be finally resolved by arbitration.
- 2.2 Such arbitration shall be by a single arbitrator who shall be –
 - Selected by agreement between the parties, or failing such agreement nominated on the application of any party by the Arbitration Foundation of Southern Africa (AFSA);
and



- The arbitrator shall have power to open up, review and revise any certificate, opinion, decision, requisition or notice relating to all matters in dispute submitted to him/her and to determine all such matters in the same manner as if no such certificate, opinion, decision, requisition or notice had been issued.
- 2.3 Upon every or any such reference, the costs of an incidental to the reference and award shall be in the discretion of the arbitrator, who may determine the amount of the costs, or direct them to be taxed as between attorney and client or as between party and party and shall direct by whom and to whom and in what manner they shall be borne and paid.
- 2.4 The award of the arbitrator shall be final and binding on the parties and any party shall be entitled to apply to the Courts to have such award made an order of court.
- 2.5 Save as set out in this clause, the arbitration shall be conducted in accordance with the rules of the Arbitration Foundation of Southern Africa.
- 2.6 The arbitration shall be held in Johannesburg in the English language.
- 2.7 However, nothing in this clause shall preclude any party to the arbitration from seeking interlocutory relief in any court having jurisdiction pending the institution of a review or other appropriate proceedings for legal redress.
- 2.8 Such arbitration shall be commenced and concluded within 30 days of the dispute having noted.

2 RFP Acceptance

- 3.1 ACSA reserves the right to reject: -
- a. Incomplete bids;
 - b. Late bids;
 - c. Conditional bids; and
- 3.2 ACSA reserves the right to withdraw the RFP at any time without giving rise to any obligation to be responsible for any loss or financial damage which may be incurred or suffered by any bidder.
- 3.3 This RFP implies neither obligation to accept the lowest or any bid nor any responsibility for expenses or loss, which may be incurred by any bidder in preparation of his bid.
- 3.4 Bidders may include with their bids any descriptive matter, which, if referred to in the RFP, will form part of the RFP. In case of any discrepancy, however, the issued RFP and supporting documents and information completed therein by the bidder will be considered as the valid and binding bid.
- 3.5 ACSA reserves the right to award portions of the contract to different Bidders and is not obligated to accept the whole or only one bid for purposes of the award of the contract or contracts.



- 3.6 ACSA reserves the right to not award more than one contract to a Bidder.
- 3.7 Notwithstanding any other provision to the contrary in this document, no ACSA employee or any person related to or associated (including spouse, child, cousin, friend) with an ACSA employee may (individually or through a corporate vehicle which includes a company, close corporate, trust, partnership etc.) submit a bid for consideration by the Evaluation Committee unless interest is declared and approved as per Delegated Level of Authority



FORM A17. ACSA Terms and Conditions of RFP and Bidders Particulars

TO: Airports Company South Africa Limited.

Bid No: BFIA8202/2026

1. Bidder's Name and Contract Details

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

2. Proposal Certification

We hereby submit a Proposal in respect of the Runway Rehabilitation project at Bram Fischer International Airport in accordance with Airports Company South Africa's requirements.

- We acknowledge that Airports Company South Africa's terms and conditions (as amended and mutually agreed between the parties if necessary) shall apply to the agreement with the successful Bidder,
- We have read, understand and agree to be bound by the content of all the documentation provided by Airports Company South Africa in this Request for Proposal.
- We accept that Airports Company South Africa's Tender Board's 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 eighty-four (84) calendar days calculated from the closing date for Proposal submission.

| | | | | | | |
|-------------------------|--|-------------|--|--------|--|------|
| Thus done and signed at | | on this the | | day of | | 2025 |
|-------------------------|--|-------------|--|--------|--|------|

| | |
|------------|--|
| Signature: | |
| Name: | |

For and behalf of:

| | |
|------------------------|--|
| Tendering entity name: | |
| Capacity: | |



SBD 4

FORM A18. Bidder’s Disclosure (SBD4)

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder’s declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

| Full Name | Identity Number | Name of State institution |
|-----------|-----------------|---------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:
.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?
YES/NO

2.3.1 If so, furnish particulars:

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.



3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium2 will not be construed as collusive bidding.
3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

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



AIRPORTS COMPANY
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FORM A19. Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2022

(SBD 6.1)

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

a) The applicable preference point system for this tender is the 90/10 preference point system.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals / Preference.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

| | POINTS |
|--|---------------|
| PRICE | 90 |
| SPECIFIC GOALS / PREFERENCE | 10 |
| Total points for Price and SPECIFIC GOALS | 100 |

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

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

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 \\
 P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right) & \text{or} & P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)
 \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

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



80/20

or

90/10

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

or

$$P_s = 90 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right)$$

Where

P_s = Points scored for price of tender under consideration

P_t = Price of tender under consideration

P_{max} = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

(a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)



| Specific Goals | Number of points (90/10 system) |
|--|--|
| B-BBEE Status Level 1 | 5 |
| B-BBEE Status Level 2 | 4.5 |
| B-BBEE Status Level 3 | 4 |
| B-BBEE Status Level 4 | 3 |
| B-BBEE Status Level 5 | 2 |
| B-BBEE Status Level 6 | 0.5 |
| B-BBEE Status Level 7 | 0.3 |
| B-BBEE Status Level 8 | 0.1 |
| Black youth majority-owned entities | 5 |
| Black women majority-owned entities | 5 |
| Company majority owned by people with disabilities | 5 |
| Sub-contracting of South African EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people | 5 |
| Non-compliant contributor | 0 |

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole propriety
- Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- Non-Profit Company
- State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the



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conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

- (a) disqualify the person from the tendering process;
- (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
- (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution, if deemed necessary.

| | |
|--------------------------|---|
| | SIGNATURE(S) OF TENDERER(S) |
| SURNAME AND NAME: | |
| DATE: | |
| ADDRESS: | |
| | |
| | |
| | |



Form A20: Confidentiality and Non-Disclosure Agreement

Between

AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED
(Registration No. 1993/004149/30)
(“Airports Company”)

of
Western Precinct, Aviation Park
O.R. Tambo International Airport
1 Jones Road
Kempton Park
1632

AND

[NAME OF SERVICE PROVIDER]

(Registration No: _____)

(“_____”)

of

[Service Providers Address]

1. **INTERPRETATION**

In this agreement -

1.1 "confidential Information" – is information which is confidential to the disclosing party, and includes whether in written, graphic, oral, proprietary, tangible, intangible, electronic or other form, and, -

1.1.1 any information in respect of know-how, formulae, statistics, processes, systems, business methods, marketing, trading and merchandising methods and information, promotional and advertising plans and strategies, pricing, financial plans and models, inventions, long-term plans, research and development data, user or consumer/ customer data and profiles, ideas, computer programmes, drawings and any other information of a confidential nature of the disclosing party, in whatever form it may be;

1.1.2 the contractual business and financial arrangements of the disclosing party and others with whom it has business arrangements of whatever nature;



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- 1.1.3 all information peculiar to the business of the disclosing party which is not readily available to a competitor of the disclosing party in the ordinary course of business;
- 1.1.4 the fact of and content of any discussions between the disclosing party and the receiving party as well as the existence and content of any agreement, which may be concluded between the disclosing party and the receiving party;
- 1.1.5 all other matters of a confidential nature which relate to the disclosing party's business;
- 1.1.6 generally, information which is disclosed in circumstances of confidence or would be understood by the parties, exercising reasonable business judgement, to be confidential;
- 1.1.7 all information of whatsoever nature relating to the disclosing party as contemplated in 2.1 below; but does not include information which -
 - 1.1.8 is or hereafter becomes part of the public domain, otherwise than as a result of a breach or default of the receiving party or of a representative or affiliate of the receiving party;
 - 1.1.9 can be shown to have been lawfully in the possession of the receiving party or its affiliates or consultants prior to its disclosure and is not subject to an existing agreement between the disclosing party and the receiving party;
 - 1.1.10 is acquired by the receiving party independently from a third party who lawfully acquired such information without restriction and who had not previously obtained the confidential information directly or indirectly under a confidentiality obligation from the disclosing party;
 - 1.1.11 is acquired or developed by the receiving party independently of the disclosing party and in circumstances which do not amount to a breach of the provisions of this agreement;
 - 1.1.12 is disclosed or released by the receiving party to satisfy an order of a court of competent jurisdiction or to otherwise comply with the provisions of any law or regulation in force at the time or the requirements of any recognised stock exchange; provided that, in these circumstances, the receiving party shall inform the disclosing party of the requirement to disclose prior to making the disclosure and provided further that the receiving party will disclose only that portion of the confidential information which it is legally required to so disclose; and the receiving party will use its reasonable endeavours to protect the confidentiality of such information to the widest extent lawfully possible in the circumstances (and shall co-operate with the disclosing party if it elects to contest any such disclosure);
- 1.2 For the purposes of this agreement the party, which discloses confidential information, shall be referred to as "the disclosing party" and the party, which receives the confidential information, shall be referred to as "the receiving party".
- 1.3 "affiliate" –of a Party means any person, now or hereafter existing, who directly or indirectly controls, (*holding company*) or is controlled or is under common control of such Party (subsidiary company); a Person "controls" another person if it holds or is beneficially entitled to hold , directly or indirectly, other than by way of security interest only, more than 50% of its voting , income or capital;



- 1.4 “disclosing party” – the party disclosing confidential information in terms of this agreement and being Airports Company;
- 1.5 “receiving party” – the party receiving confidential information in terms of this agreement;
- 1.6 “the parties” – the Airports Company and _____.

2. **INTRODUCTION**

- 2.1 The parties intend to provide each other with certain information pertaining to their operations and the parties are in the process of discussing certain matters with a view to concluding an agreement (“the potential agreement”), which discussions have required and will require the disclosure to one another of information of a proprietary, secret and confidential nature. Whether or not the parties conclude the potential agreement will not affect the validity of this agreement.
- 2.2 If the confidential information so disclosed is used by the receiving party for any purpose other than that for which its use is authorised in terms of this agreement or is disclosed or disseminated by the receiving party to another person or entity which is not a party to this agreement, this may cause the disclosing party to suffer damages and material financial loss.
- 2.3 This agreement shall also bind the parties, notwithstanding the date of signature hereof, in the event that either party shall have disclosed any confidential information to the other party prior to date of signature hereof.
- 2.4 The parties wish to record the terms and conditions upon which each shall disclose confidential information to the other, which terms and conditions shall constitute a binding and enforceable agreement between the parties and their agents.

3. **USE OF CONFIDENTIAL INFORMATION**

Any confidential information disclosed by the disclosing party shall be received and used by the receiving party only for the limited purpose described in 2.1 above and for no other purpose.

4. **NON-DISCLOSURE**

4.1 THE RECEIVING PARTY undertakes that -

- 4.1.1 it will treat the disclosing party’s confidential information as private and confidential and safeguard it accordingly;
- 4.1.2 it will not use (except as permitted in 3 above) or disclose or release or copy or reproduce or publish or circulate or reverse or engineer and/or decompile or otherwise transfer, whether directly or indirectly, the confidential information of the disclosing party to any other person or entity; and the receiving party shall take all such steps as may be reasonably necessary to prevent the disclosing party’s confidential information falling into the hands of unauthorised persons or entities;
- 4.1.3 it shall not disclose the confidential information of the disclosing party to any employee, consultant, professional adviser, contractor or sub-contractor or agent of the receiving party (collectively referred to herein as “representative”) or an affiliate of the receiving party, nor shall they be given access thereto by the receiving party -



4.1.3.1 unless it is strictly necessary for the purposes referred to in 2.1 above; and

4.1.3.2 the receiving party shall have procured that the representative, affiliate or consultant to whom or to which such information is disclosed or made available shall have agreed to be bound by all the terms of this agreement,

and, in such event, the receiving party hereby indemnifies the disclosing party against any loss, harm or damage which it may suffer as a result of the unauthorised disclosure of confidential information by a representative, affiliate or consultant.

4.2 Any documentation or written record or other material containing confidential information (in whatsoever form) which comes into the possession of the receiving party shall itself be deemed to form part of the confidential information of the disclosing party. The receiving party shall, on request, and in any event if the discussions referred to in 2.1 above should not result in an agreement, return to the disclosing party all of its confidential information which is in physical form (including all copies) and shall destroy any other records (including, without limitation, those in machine readable form) as far as they contain the disclosing party's confidential information. The receiving party will, upon written or oral request from the disclosing party and within five (5) business days of the disclosing party's request, provide the disclosing party with written confirmation that all such records have been destroyed.

5. **COPIES**

5.1 The receiving party may only make such copies of the disclosing party's confidential information as are strictly necessary for the purpose and the disclosures which are not in breach of this agreement and authorised in terms of this agreement. The receiving party shall clearly mark all such copies as "Confidential".

5.2 At the written request of the disclosing party, the receiving party shall supply to the disclosing party a list showing, to the extent practical –

5.2.1 where copies of the confidential Information are held;

5.2.2 copies that have been made by the receiving party (except where they contain insignificant extracts from or references to confidential information) and where they are held; and

5.2.3 the names and addresses of the persons to whom confidential information has been disclosed and, if applicable, a copy of the confidentiality undertaking signed by such persons complying with the provisions of this agreement.

6. **THE USE OF THE COMPANY'S INTELLECTUAL PROPERTY**

6.1 The receiving party shall not use any intellectual property of the Company (including trademarks, service marks, logos, slogans, trade names, brand names and other indicia of origin) (collectively, the "**Company IP**") for any reason whatsoever without first obtaining the Company's prior written consent which consent the Company shall be entitled to grant solely at its own discretion.

6.2 If the receiving party requires the use of such Company IP, a request must be sent to the Brand Custodians Office, via email to brandcustodian@airports.co.za. Each single request by the same receiving party shall be treated as a new request.

6.3 Should the Company provide its consent in terms of clause **Error! Reference source not found.** above, the receiving party shall comply with the Company's policies and standards with regard to the use of the Company IP. Such policies and standards shall be communicated to the receiving party at the time the Company grants the consent to the receiving party.

6.4 Failure to adhere to the provisions of this clause 6 or the policies, brand requirements and protocols that will be communicated by the Brand Custodians Office to the receiving party, shall result in the penalty equal to the value of 2% (two per cent) of the receiving party's annual turnover in the financial year in which the aforesaid failure occurred.



AIRPORTS COMPANY

7. **DURATION**

7.1 Subject to Clause 2.3 this agreement shall commence or shall be deemed to have commenced on the date of signature of this agreement by the last party to sign the agreement.

7.2 This agreement shall remain in force for a period of **5** years ("the term"), or for a period of one (1) year from the date of the last disclosure of confidential information to the receiving party, whichever is the longer period, whether or not the parties continue to have any relationship for that period of time.

8. **Title**

8.1 All confidential information disclosed by the disclosing party to the receiving party is acknowledged by the receiving party:

8.1.1 to be proprietary to the disclosing party; and

8.1.2 not to confer any rights to the receiving party of whatever nature in the confidential information.

9. **RELATIONSHIP BETWEEN THE PARTIES**

9.1 The disclosing party is not obliged, by reason of this agreement, to disclose any of its confidential information to the receiving party or to enter into any further agreement or business relationship with the receiving party. Nothing herein shall imply or create any exclusive relationship between the Parties or otherwise restrict either Party from pursuing any business opportunities provided it complies at all times with the non-disclosure obligations set forth herein

9.2 The disclosing party retains the sole and exclusive ownership of intellectual property rights to its confidential information and no license or any other interest in such confidential information is granted in terms hereof or by reason of its disclosure.

9.3 The termination of the discussions referred to in 2.1 above shall not release the parties from the obligations set out in this agreement.

10. **ENFORCEMENT, GOVERNING LAWS AND JURISDICTION**

10.1 This agreement shall be governed by and interpreted according to the laws of the Republic of South Africa, without reference to the choice of laws' provisions of the Republic of South Africa. In the event of a conflict between or inconsistency in the laws applicable in the various provinces of the Republic of South Africa, the law as applied and interpreted in the Gauteng Province shall prevail.

10.2 The parties irrevocably submit to the exclusive jurisdiction of the High Court of South Africa, Witwatersrand Local Division, in respect of any action or proceeding arising from this agreement.

10.3 The parties agree that, in the event of a breach of this agreement, monetary damages would not be an adequate remedy. In the event of a breach or threatened breach of any provisions of this agreement by the receiving party, the disclosing party (and/or its relevant affiliate) shall be entitled to injunctive relief in any court of competent jurisdiction and the receiving party shall reimburse the disclosing party for any costs, claims, demands or liabilities arising directly or indirectly out of a breach. Nothing contained in this agreement shall be construed as prohibiting a party or its affiliate from pursuing any other remedies available to it for a breach or threatened breach.

10.4 The failure by the disclosing party to enforce or to require the performance at any time of any of the provisions of this agreement shall not be construed to be a waiver of such provision, and shall not affect either the validity of this agreement or any part hereof or the right of the disclosing party to enforce the provisions of this agreement.



AIRPORTS COMPANY

11. **DOMICILIUM**

11.1 The parties choose as their *domicilium* the addresses indicated in the heading to this agreement for the purposes of giving any notice, the payment of any sum, the serving of any process and for any other purpose arising from this agreement.

11.2 Each of the parties shall be entitled from time to time, by written notice to the other, to vary its domicilium to any other address which is not a post office box or poste restante.

11.3 Any notice required or permitted to be given in terms of this agreement shall be valid and effective only if in writing.

11.4 Any notice given and any payment made by one party to the other ("the addressee") which:

11.4.1 is delivered by hand during the normal business hours of the addressee at the addressee's domicilium for the time being shall be presumed, until the contrary is proved, to have been received by the addressee at the time of delivery;

11.4.2 is posted by prepaid registered post from an address within the Republic of South Africa to the addressee at the addressee's domicilium for the time being shall be presumed, until the contrary is proved, to have been received by the addressee on the fourth day after the date of posting;

11.4.3 is transmitted by facsimile to the addressee's receiving machine shall be presumed, until the contrary is proved, to have been received within one (1) hour of transmission where it is transmitted during normal business hours or, if transmitted outside normal business hours, within one (1) hour of the resumption of normal business hours on the next normal business day.

12. **GENERAL**

12.1 No party shall be bound by any representation, warranty, undertaking, promise or the like not recorded in this agreement.

12.2 No addition to, variation or agreed cancellation of this agreement shall be of any force or effect unless in writing and signed by or on behalf of the parties.

12.3 Any indulgence which either party may show to the other in terms of or pursuant to the provisions contained in this agreement shall not constitute a waiver of any of the rights of the party which granted such indulgence.

12.4 The parties acknowledge that this agreement and the undertakings given by it in terms hereof are fair and reasonable in regard to their nature, extent and period and go no further than is reasonably necessary to protect the interests of the parties.

12.5 The parties hereby confirm that they have entered into this agreement with full and clear understanding of the nature, significance and effect thereof and freely and voluntarily and without duress.

12.6 Neither party shall have the right to assign or otherwise transfer any of its rights or obligations under this agreement.

12.7 This agreement may be executed in several counterparts that together shall constitute one and the same instrument.



12.8 In this agreement, clause headings are for convenience and shall not be used in its interpretation.

12.9 Each clause of this agreement is severable, the one from the other and if any one or more clauses are found to be invalid or unenforceable, that clause shall not affect the balance of the clauses which shall remain in full force and effect.

SIGNED at _____ on _____ day of _____ 202__

AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED
the signatory warranting that he is duly authorised thereto.

Name: _____

Designation: _____

AS WITNESSES

1. _____

2. _____

SIGNED at _____ on _____ day of _____ 202__

[NAME OF SERVICE PROVIDER]
the signatory warranting that s/he is duly authorised thereto.

Name: _____

Designation: _____



AS WITNESSES

1. _____
2. _____
3. _____



Form A21. Declaration Of Interest and Politically Exposed Person

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.

ACSA requires all bidders to declare that they have not acted in any manner inconsistent with the law, policy, or fairness. Furthermore, ACSA requires bidders to declare if they have Politically Exposed Persons (PEP) also known as Domestic Prominent Influential Persons (DPIP) in their organisation. See below definition of PEP/DPIP.

Politically Exposed Persons or DPIP are individuals who are or have been entrusted with prominent public functions in the country or a foreign country, for example Heads of State or of government, senior politicians, senior government, judicial or military officials, senior executives of state-owned corporations, important political party officials. Business relationships with family members or close associates of PEPs involve reputational risks similar to those with PEPs themselves. PEP status in the following areas shall be declared:

- Current or former senior official in the executive, legislative, administrative, military, or judicial branch of government or foreign government (elected or not)
- A senior official of a major political party or major foreign political party;
- A senior executive of government owned commercial enterprise
- or a foreign government owned commercial enterprise, being a corporation, business or other entity formed by or for the benefit of any such individual;
- A related and or inter-related immediate member of such individual; meaning spouse, parents, siblings, children, and spouse's parents or siblings etc

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 / no PEP/DPIP conflict of interest/ no relationship between the bidding entity or any of its shareholders / directors / owner / member / partner/ senior management with any ACSA employee or official.

Where a relationship or PEP/DPIP conflict of interest exists, please provide details of the ACSA employee or official and the extent of the relationship below:



PEP/DPIP Declaration

DPIP/PEP Declaration for self/family member or close associate:

| Nature of Political Exposure | Term of the office | Description of activities relating to political exposure |
|------------------------------|--------------------|--|
| | | |
| | | |
| | | |

Full Names of Directors / Trustees / Members / Shareholders/ Senior Management of the bidding entity

| Full Name | Identity Number | Personal Income Tax Reference Number |
|-----------|-----------------|--------------------------------------|
| | | |
| | | |
| | | |

5.1.2.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



FORM A22: 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 |
|----|-------------|---------|--------------------------------------|
| a) | | | |
| b) | | | |

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 _____ 2025_____

Name: _____
 Designation: _____
 Signature: _____



Form A23. Insurance Commitment

Bidder Acknowledgement

- a. The bidder hereby acknowledges that, in the event of their bid being successful, the necessary insurance requirements shall be met prior to signing of the contract (refer contract document for more insurance information).
- b. The bidder/contractor shall ensure that all potential and appointed Sub-Contractors are aware of ACSA's insurance requirements and enforce the compliance by sub-contractors where applicable.
- c. Proof of insurance must be submitted by the bidder to the satisfaction of ACSA, upon award.**

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



Documents B1 to B6: Attach Here

Attach the following documents here:

| |
|---|
| B1: SARS Pin issued by the South African Revenue Services. |
| B2: Bank Letter: Letter of Good Standing from Bidder's Bank preferably with bank rating for tender sum. |
| B3: Central Supplier Database (CSD) proof of registration. |
| B4: Letter of Solvency: Bidder to provide a Letter of Solvency from auditors or accountants |
| B5: CIPC Registration documents, Partnership Agreement, JV Agreement or Registered Trust Document |
| B6: Identity documents of all Shareholders, Directors, Members, Trustees or Partners |

Form C1. Compulsory Enterprise Questionnaire

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: CIDB registration number, if any:

Section 4: CSD number:

Section 5: Particulars of sole proprietors and partners in partnerships:

| Name* | Identity Number* | Personal Income Tax Number* |
|-------|------------------|-----------------------------|
| | | |
| | | |
| | | |

** Complete only if sole proprietor or partnership and attach separate page if more than 3 partners*

Section 6: Particulars of companies and close corporations

Company registration number:

Close corporation number:

Tax reference number:

Section 7: SBD4 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 8: SBD 6 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

- i) authorizes the Employer to verify the tenderers tax clearance status from the South African Revenue Services that it is in order;
- ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

| | | | |
|------------------------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| <i>Enterprise name</i> | | | |



Form C2. Proposed Domestic Subcontractors (If Applicable)

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

Attach the following:

- **BBBEE certificate of proposed sub-contractor(s)**
- **SARS Tax Certificate Pin or certified certificate**
- **Certificate of Incorporation**
- **Central Supplier Database (CSD) Report**
- **CIPC certificate**

| | Name and address of proposed Subcontractor | Nature and extent of work | Previous experience with Subcontractor. |
|-----------|---|----------------------------------|--|
| 1. | | | |
| 2. | | | |
| 3. | | | |

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



Form C3. Plant and Equipment

The following are lists of major items of relevant equipment that we (bidder/contractor) presently own or lease and will have available for this contract or will acquire or hire for this contract if my/our tender is accepted.

(a) Details of major equipment that is owned by and immediately available for this contract.

| Quantity | Description, size, capacity, etc. |
|----------|-----------------------------------|
| | |

Attach additional pages if more space is required.

(b) Details of major equipment that will be hired, or acquired for this contract if my/our tender is acceptable.

| Quantity | Description, size, capacity, etc. |
|----------|-----------------------------------|
| | |

Attach additional pages if more space is required.

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |

FORM C4. B-BBEE – PREFERENCE POINTS

- Provide original or certified copy of Valid sworn B-BBEE Affidavit OR SANAS Accredited B-BBEE Certificate
- If bidder is a Joint Venture (JV) – a consolidated B-BBEE certificate from a SANAS accredited agency must be provided

as prescribed by the B-BBEE Act and its relevant/most recent Codes of Good Practice;

IN ORDER TO SCORE FOR PREFERENCE POINTS, BIDDER MUST PROVIDE PROOF/SUPPORTING INFORMATION THAT IS RELEVANT TO THE FOLLOWING SPECIFIC GOALS.

| <i>Specific Goals</i> | <i>Number of points (90/10 system)</i> |
|--|--|
| <i>B-BBEE Status Level 1</i> | <i>5</i> |
| <i>B-BBEE Status Level 2</i> | <i>4.5</i> |
| <i>B-BBEE Status Level 3</i> | <i>4</i> |
| <i>B-BBEE Status Level 4</i> | <i>3</i> |
| <i>B-BBEE Status Level 5</i> | <i>2</i> |
| <i>B-BBEE Status Level 6</i> | <i>0.5</i> |
| <i>B-BBEE Status Level 7</i> | <i>0.3</i> |
| <i>B-BBEE Status Level 8</i> | <i>0.1</i> |
| <i>Black youth majority-owned entities</i> | <i>5</i> |
| <i>Black women majority-owned entities</i> | <i>5</i> |
| <i>Company majority owned by people with disabilities</i> | <i>5</i> |
| <i>Sub-contracting of South African EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people</i> | <i>5</i> |
| <i>Non-compliant contributor</i> | <i>0</i> |

| | | | |
|----------|--|----------|--|
| Signed | | Date | |
| Name | | Position | |
| Tenderer | | | |



THE CONTRACT AIRPORTS COMPANY SOUTH AFRICA

REFER CONTRACT ATTACHED SEPARATELY.

**BIDDER TO COMPLETE CONTRACT IN IT'S ENTIRETY (Form of Offer, Pricing Schedules etc),
SIGN AND RETURN TOGETHER WITH THIS COMPLETED & SIGNED TENDER DOCUMENT.**



AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

Part C1: Agreement and Contract Data

| | | |
|-------------|---|--------------|
| C1.1 | Form of Offer and Acceptance | C1-2 |
| C1.2 | Contract Data | C1-6 |
| C1.3 | Performance Guarantee..... | C1-24 |
| C1.4 | Retention Money Guarantee..... | C1-28 |
| C1.5 | Adjudicator's Agreement..... | C1-30 |
| C1.6 | Agreement in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) | C1-32 |
| C1.7 | Availability of Key Persons | C1-36 |

ACCEPTANCE

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

The terms of the contract, are contained in:

- Part C1: Agreements and Contract Data, (which includes this Agreement)
- Part C2: Pricing Data
- Part C3: Scope of Work.
- Part C4: Site Information

and drawings and documents or parts thereof, which are incorporated by reference into Parts C1 to C4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto as listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representative (s) of both parties.

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

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

| | |
|-----------------|------------|
| Signature | Date |
| Name | |
| Capacity | |

For the

Employer Airports Company South Africa
Private Bag X20562
Bram Fischer International Airport
9300

| | |
|-------------------------------------|------------|
| Name and signature of witness | Date |
|-------------------------------------|------------|

SCHEDULE OF DEVIATIONS

Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender,
2. A Tenderer’s covering letter shall not be included in the final contract document. Should any matter in such, letter, which constitutes a deviation as aforesaid become the subjects of agreements reached during the process of, offer and acceptance, the outcome of such agreement shall be recorded here,
3. Any other matter arising from the process from offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here,
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract,

| | | |
|---|--------------|--|
| 1 | Subject..... | |
| | Details..... | |
| 2 | Subject..... | |
| | Details..... | |
| 3 | Subject..... | |
| | Details..... | |
| 4 | Subject..... | |
| | Details..... | |
| 5 | Subject..... | |
| | Details..... | |

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

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

For the Tenderer:

For the Employer:

Signature

Name

Capacity

Signature.....

Name

Capacity.....

Name and address of organisation

Name and address of organisation

.....

.....

.....

.....

.....

.....

Witness Signature.....

Name

Date

Witness Signature

Name

Date

CONFIRMATION OF RECEIPT

The Tenderer (now Contractor), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

the(day)

of(month)

20(year)

at(place)

For the Contractor

| | |
|-----------------|-----------------|
| Signature | Signature |
| Name | Name |
| Capacity | Capacity |

| | |
|------------------------|-------------------------|
| Witness Signature..... | Witness Signature |
| Name | Name |

AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

C1.2: CONTRACT DATA

C1.2.1 Conditions of Contract

It will be a condition of contract that:

The contractor shall achieve in the performance of the contract the Contract Skills Development Goal (CSDG) established in the CIDB Standard for Developing Skills through Infrastructure Contracts, published in Gazette Notice No.48491 of 28 April 2023.

The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction works Contracts Gazette Notice No.36190 of 25 February 2013.

C1.2.2 General Conditions of Contract

The following standardized General Conditions of Contract:

General Conditions of Contract for Construction Works (Third Edition) 2015 (GCC,2015)

GCC, 2015, as prepared by the South African Institution of Civil Engineering (SAICE), shall apply to and constitutes 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, email: civilinfo@saice.org.za.

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

The Pro-formats bound with the General Conditions of Contract 2015, from page 96 to page 116 shall not apply to this Contract and shall be replaced with the following:

C1.1: Form of Offer and Acceptance

C1.2: Contract Data (This section)

Pro forma Security, Bonds and Guarantees:

C1.3: Performance Guarantee

C1.4: Retention Guarantee

C1.5: Adjudication Board Member Agreement

C1.8: Disclosure Statement

C1.9: Insurance Schedule

C1.10: The Adjudication Board Panel

C1.2.3 Special Conditions of Contract

Amendments, deletions and/or additions to the General Conditions of Contract as Special Conditions of Contract prescribed by the Employer are set out below. Each item of the Special Conditions of Contract given below is cross-referenced to the clause in the General Conditions of Contract for Construction Works (Third Edition) 2015 to which it mainly applies and additional clauses follow on from those used in the General Conditions of Contract.

The following Special Conditions of Contract as prescribed by the Employer, referring to the General Conditions of Contract for Construction Works (Third Edition) 2015, are applicable to this Contract:

| Clause Ref. | Sub-Heading | Special Conditions |
|-------------|---------------------------------|---|
| 1. | GENERAL | |
| 1.1 | Definitions | The following definitions are amended as set out below: |
| 1.1.1.12 | “Day” | Add the following at the end of Clause 1.1.1.12: <i>“and ‘Business Day’ means any day that is not a Saturday, Sunday or official public holiday in the Republic of South Africa.”</i> |
| 1.1.1.16 | “Employer’s Agent” | Add the following at the end of Clause 1.1.1.16: <i>“Where reference is made to the term ‘Engineer’ in the Project Specifications or anywhere in the contract document, the terms ‘Engineer and ‘Employer’s Agent’ shall have the same meaning.”</i> |
| 1.1.1.24 | “Practical Completion” | Amend Clause 1.1.1.24 to read as follows: <i>“means that the whole or portion of the Works has reached a state of readiness, and are fit for the purposes intended as stated in the Contract Data and/or the Scope of Work (or if no purpose is stated, their ordinary purpose), and may be occupied without any danger or undue inconvenience to the Employer, even though some minor work may be outstanding.”</i> |
| | Additional Definitions | Add the following new definitions to the General Conditions of Contract: |
| 1.1.1.35 | “Contractor's Design Documents” | <i>“means the drawings, design details and specifications of work, Plant and Materials prepared by the Contractor for the works.”</i> |
| 1.1.1.36 | “Contractor’s Key Personnel” | <i>“means the persons mentioned in the contractors organogram as required by Section 4 of the Standard Occupational Health and Safety Specification - See part C3 of this document.</i> |

| Clause Ref. | Sub-Heading | Special Conditions |
|--------------------|-------------------------------------|--|
| 1.1.1.37 | "Contractor's Personnel" | <i>"means the Contractor's Representative, the Contractor's Key Personnel and all persons whom the Contractor utilises on Site, who may include staff, labour and other employees of the Contractor and of each subcontractor or supplier and any other personnel assisting the Contractor in the execution of the Works."</i> |
| 1.1.1.38 | "Contractor's Site Agent" | <i>"has the meaning assigned to it in Clause 4.12.2 and is the natural person named in the Contract Data".</i> |
| 1.1.1.39 | "Early Warning Event" | <i>"means any events, circumstances or factors which may adversely affect the Works or the progress thereof, including any events, circumstances or factors which may delay the execution of the Works or increase the Contract Price, or otherwise adversely affect the Employer's operations on Site."</i> |
| 1.1.40 | "Reasonable and Prudent Contractor" | <i>"means a person seeking in good faith to perform its contractual obligations and, in so doing and in the general conduct of its undertaking, exercising that degree of skill, diligence, prudence, responsibility and foresight which would reasonably and ordinarily be expected from a skilled and appropriately experienced construction contractor, who is complying with all applicable laws, engaged in the same or a similar type of undertaking, in the same or similar circumstances and conditions, and any references to the "Standards of a Reasonable and Prudent Contractor" shall be construed accordingly."</i> |
| 1.1.1.41 | "Risk Register" | <i>"means the list of Early Warning Events notified by the Contractor to the Employer, which list shall be maintained and updated by the Contractor on a regular basis."</i> |
| 1.1.1.42 | "Resident Engineer" | <i>"means the person appointed by the Engineer to act as the Engineer's on-site representative for the administration and monitoring of the Works, with delegated authority as defined by the Engineer in writing."</i> |

| Clause Ref. | Sub-Heading | Special Conditions |
|-------------|-------------|--------------------|
|-------------|-------------|--------------------|

| | | |
|----------|--------------------------------|--|
| 1.1.1.43 | Intended commencement of works | <i>“means the date communicated by the Employer’s Agent to the Contractor as the planned date for commencement of the Works, for the purposes of planning, coordination and submission of documentation. Such date shall be indicative only and subject to compliance with Clause 5.3, including the submission and acceptance of required documentation and the obtaining of all statutory approvals. The Intended Commencement of the Works may be revised by the Employer’s Agent from time to time.”</i> |
|----------|--------------------------------|--|

| | | |
|-----|----------------|--|
| 1.2 | Interpretation | |
|-----|----------------|--|

| | | |
|-------|---------------------|--|
| 1.2.1 | Delivery of Notices | Delete Clause 1.2.1 and replace with the following: <i>“1.2.1. Whenever this Contract provides for the giving or issuing of written communications, these communications shall:</i> |
|-------|---------------------|--|

1.2.1.1. be in writing and shall clearly state on the face of the document that it is a communication made in accordance with this Contract and reference the Clause under the Contract in terms of which the communication is made;

1.2.1.2. be delivered, sent or transmitted to the addresses for the recipient’s communication as stated in the Contract Data, provided that either party shall be entitled to change their address for communications on written notice to the other party.

1.2.2. Communications delivered by hand shall be delivered against receipt and communications transmitted via electronic mail shall be deemed to be received when the communication is capable of being retrieved by the recipient.

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| 1.2.6 | Principles of Interpretation | <p><i>1.2.3. References in the Contract to oral communications are deleted. ”</i></p> <p>Add the following new Clause 1.2.6: “<i>In this Contract, except where the context indicates otherwise:</i></p> <p><i>1.2.6.1 references to the Contractor include the obligations of the Contractor’s Personnel;</i></p> <p><i>1.2.6.2 references to the provisions of any law shall include such provisions as amended, re-enacted or consolidated from time to time in so far as such amendment, re-enactment or consolidation applies or is capable of applying to any Works under this Contract;</i></p> <p><i>1.2.6.3 references to a statutory provision include any subordinate legislation made from time to time under that provision and includes that provision as modified or re-enacted from time to time;</i></p> <p><i>1.2.6.4 where figures are referred to in figures and in words, if there is any discrepancy between the two, the words shall prevail;</i></p> <p><i>1.2.6.5 if a definition imposes substantive rights and obligations on a party, such rights and obligations shall be given effect to and shall be enforceable, notwithstanding that they are contained in the definition;</i></p> <p><i>1.2.6.6 where a word is defined within the context of any particular clause in this Contract, that word, unless it is clear from the clause in question that that word has limited application only to the relevant clause, shall bear the meaning ascribed to it for all purposes in terms of this Contract, notwithstanding that it is not defined in clause 1.1 above;</i></p> |

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1.2.6.7 words defined in this Contract shall bear the same meanings in any annexures or schedules to this Contract and if those annexures or schedules contain their own definitions the definitions in these Conditions shall take precedence;

1.2.6.8 words and abbreviations that have well known technical or trade meanings are used in the Contract in accordance with such recognized meanings;

1.2.6.9 where any number of days is prescribed, those days shall be reckoned exclusively of the first and inclusively of the last day unless the last day falls on a day that is not a Business Day, in which event the last day shall be the next succeeding Business Day;

1.2.6.10 the rule of construction that if general words or terms are used in association with specific words or terms that are a species of a particular genus or class, the meaning of the general words or terms shall be restricted to that same class shall not apply, and whenever the word "including" is used followed by specific examples, such examples shall not be interpreted so as to limit the meaning of any word or term to the same genus or class as the examples given.

1.2.6.11 the rule of construction that the Contract shall be interpreted against or to the disadvantage of the Party responsible for the drafting or preparation of this Contract shall not apply;

1.2.6.12 any provision in this Contract that is or may become illegal, invalid or unenforceable in any jurisdiction shall be

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| | | <p><i>ineffective to the extent of such prohibition or unenforceability in such jurisdiction and shall be treated as severed from the balance of this Contract in such jurisdiction, without invalidating the remaining provisions of this Contract in such jurisdiction or affecting it in any other jurisdiction;</i></p> <p>1.2.6.13 <i>time is of the essence in the performance of the Contractor's obligations; and</i></p> <p>1.2.6.14 <i>references containing terms such as 'best endeavours' when used in connection with an obligation of the Contractor, means taking in good faith and with due diligence all reasonable steps to achieve the objective and to fulfil the obligation at the earliest possible time, including doing all that a Reasonable and Prudent Contractor in comparable circumstances would do."</i></p> |
| 1.3.1 | Concession not to constitute a wavier | Amend Clause 1.3.1 by adding the following words after the word "Employer" in the first line: <i>" , Employer's Agent"</i> |
| 1.3.5 | Contractor's copyright | Add the following at the end of Clause 1.3.5: <i>"The Contractor shall indemnify and hold the Employer harmless against and from any claim alleging an infringement of intellectual property rights which arises out of or in relation to the Contractor's design, manufacture, construction or execution of the Works or the proper use of the Works."</i> |
| 1.3.7 | Joint and several liability | Add the following new Clause 1.3.7: <i>"1.3.7.1 If the Contactor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons, these persons are deemed to be</i> |

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jointly and severally liable to the Employer for the performance of the Contract.

1.3.7.2 The Contractor shall, within 1 week of the Commencement Date, notify the Employer's Agent and the Employer of the key person who has the authority to bind the Contractor on their behalf."

1.3.7.3 The Contractor does not materially alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without prior written consent of the Employer."

1.3.8 Ethics

Add the following new Clause 1.3.8:

"1.3.8.1 The Contractor undertakes not to give any offer, payment, consideration, or benefit of any kind, which constitutes or could be construed as an illegal or corrupt practice, either directly or indirectly, as an inducement or reward for the award or in execution of this contract;

1.3.8.2 The Contractor shall comply with all laws, regulations or policies relating to the prevention and combating of bribery, corruption and money laundering to which it or the Employer is subject, including but not limited to the Prevention and Combating of Corrupt Activities Act, 12 of 2004.

1.3.8.3 The Contractor's breach of this clause constitutes grounds for terminating the Contractor's obligation to provide the Works or taking any other action as appropriate against the Contractor (including civil or criminal action). However, lawful inducements and rewards shall not constitute grounds for termination.

1.3.8.4 If the Contractor is found guilty by a competent court, administrative or regulatory body of participating in illegal or corrupt practices, including but not limited to the making of offers (directly or indirectly), payments, gifts, gratuity, commission or benefits of any kind, which are in any way whatsoever in connection with the contract with

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| 1.3.9 | Confidentiality | <p><i>the Employer, the Employer shall be entitled to terminate the Contract immediately on notice to the Contractor.”</i></p> <p>Add the following new Clause 1.3.9:</p> <p><i>“1.3.9.1 All information obtained in terms of this Contract or arising from the implementation of this Contract shall be treated as confidential by the Contractor and shall not be used or divulged or published to any person not being a party to this contract, without the prior written consent of the Employer’s Agent or the Employer, which consent shall not be unreasonably withheld.</i></p> <p><i>1.3.9.2 If the Contractor is uncertain about whether any such information is confidential, it is to be regarded as such until otherwise notified by the Employer’s Agent.</i></p> <p><i>1.3.9.3 This undertaking shall not apply to –</i></p> <ul style="list-style-type: none"> <i>(a) Information disclosed to the employees of the Contractor for the purposes of the implementation of this Contract. The Contractor undertakes to procure that its employees are aware of the confidential nature of the information so disclosed and that they comply with the provisions of this clause;</i> <i>(b) Information which the Contractor is required by law to disclose, provided that the Contractor notifies the Employer prior to disclosure so as to enable the Employer to take the appropriate action to protect such information. The Contractor may disclose such information only to the extent required by law and shall use reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed;</i> |

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(c) Information which at the time of disclosure or thereafter, without default on the part of the Contractor, enters the public domain or to information which was already in the possession of the Contractor at the time of disclosure (evidenced by written records in existence at that time);

1.3.9.4 The taking of images (whether photographs, video footage or otherwise) of the Works or any portion thereof, in the course of providing the Works and after the Due Completion Date, requires the prior written consent of the Employer’s Agent. All rights in and to all such images vests exclusively in the Employer.

1.3.9.5 The Contractor ensures that all his subcontractors abide by the undertakings in this clause 1.3.9”

2 BASIS OF CONTRACT

2.1.3 Obtaining Information

Add the following at the end of Clause 2.1.3:

“The Contractor shall be deemed to have made allowances in his programme for all such risks, contingencies and all other circumstances which may influence or affect the Works.”

2.2.1 Adverse physical conditions

Amend the first paragraph of Clause 2.2 by adding the words in italics:

“If, while carrying out the Works, the Contractor shall encounter adverse physical conditions (other than weather conditions at the Site or the direct consequences of those particular weather conditions) or artificial obstructions, which conditions or obstructions could not have been reasonably foreseen by an experienced contractor at the time of submitting his tender, and the Contractor is of the opinion that additional work will be necessary which would not have been necessary if the particular physical conditions or artificial obstructions had not been encountered, he shall give notice to the Employer's Agent in writing

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| | | as soon as he becomes aware of the conditions or obstructions aforesaid <i>but in any event within 5 days of the date on which he ought to have become aware of the conditions or obstructions</i> , stating:" |
| 2.2.3 | Contractor to carry out additional work | Delete Clause 2.2.3 and replace with the following: <i>"The Employer's Agent shall respond to the Contractor's notice in terms of Clause 2.2.1 within 14 days of the notice. If the Employer's Agent fails to respond within the period specified, the Contractor shall carry out the additional work proposed in the notice or notices under Clauses 2.2.1 and 2.2.2 without limiting the right of the Employer's Agent to order a suspension of work in terms of Clause 5.11.2 or a variation in terms of Clause 6.3."</i> |
| 2.3 | Technical data | Add the following new Clause 2.3.2: <i>"It is the Contractor's obligations to verify the accuracy of the technical data provided by the Employer and its failure to do so shall be taken into account in the assessment of the Contractor's claim, if any."</i> |
| 2.5 | Assignment | Delete Clause 2.5.1 and replace with the following: <i>"2.5.1 The Contractor shall not cede, delegate or assign any of its rights or obligations to any person without the written consent of the Employer, which consent shall not be unreasonably withheld. This clause shall be binding on the liquidator/business rescue practitioner/trustee (whether provisional or not) of the Contractor.</i> <i>2.5.2 The Employer may, on written notice to the Contractor, cede and delegate its rights and obligations under this contract to any person or entity."</i> |
| 3 | EMPLOYER'S AGENT | |
| 3.2.4 | Employer's Agent for health and safety | Delete and replace with the following: <i>"The Employer may, by written notice to the Contractor and the Employer's Agent, authorise an agent to act as his representative relating to</i> |

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| | | <p><i>responsibilities imposed by the Occupational Health and Safety Act 85 of 1933 and the Construction Regulation 2014 on the Employer. Such an agent, if not the Employer's Agent, shall be responsible to the Employer's Agent in terms of this Contract.</i></p> |
| 4 | CONTRACTOR'S GENERAL OBLIGATIONS | |
| 4.1.1 | Extent of Contractor's obligations | <p>Clause 4.1.1 is re-numbered as Clause 4.1.1.1 and the following is added as a new Clause 4.1.1.2:</p> <p><i>"The Contractor shall ensure that the Works, when complete, are fit for their intended purpose as stated in the Contract Data and/or the Scope of Work. Where no purpose is stated, the Contractor shall ensure that the Works are fit for their ordinary purpose."</i></p> |
| 4.1.2 | Contractor's liability for own design errors | <p>This heading is amended to read: <i>"The Contractor's liability for design"</i></p> <p>Delete Clause 4.1.2 and replace with the following:</p> <p><i>"4.1.2.1. Where any part of the Works, whether permanent or temporary is designed by the Contractor, he shall, notwithstanding any approval of the Employer's Agent be liable for any error or deficiency in any design, drawing or document and any loss or damage arising out of such error or deficiency.</i></p> <p><i>4.1.2.2. Without prejudice to any other provision of this Contract, the Contractor shall, in the performance of its design obligations under this Contract, exercise all the reasonable skill, care and diligence to be expected of a prudent, competent and properly qualified engineer or other appropriate designer experienced in the provision of like services for projects of a size, scope, nature and complexity and in a physical location similar to the Works. The Contractor's obligations in terms of this Clause shall not detract from the Contractor's obligation to produce a design which is fit for purpose stated in the Contract Data and/or the</i></p> |

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| | | <i>Scope of Work, and if no such purpose is stated, its ordinary purpose.”</i> |
| 4.2.1 | Employer’s Instructions | Agents Add the following at the end of Clause 4.2.1: <i>“provided such instructions are given in writing. If the Contractor considers the instruction to constitute a Variation Order, he shall proceed in accordance with Clause 6.3.2.1.”</i> |
| 4.2.3 | Setting-out of the Works | Add the following new Clause 4.2.3: <i>"4.2.3.1 The Employer’s Agent shall establish the basic reference pegs and benchmarks on the Site and give to the Contractor the particulars thereof in sufficient time to enable the Contractor to meet his approved programme. It shall be the Contractor’s responsibility to verify the accuracy of these items of reference before they are used for the Works and rectify any errors.</i> <i>4.2.3.2 After compliance by the Employer’s Agent with the provisions of Clause 4.2.3.1, the Contractor shall be responsible for the true and proper setting out of the Works and for the correctness of the position, levels, dimensions and alignment of all parts of the Works and for the provision of all necessary instruments, appliances and labour in connection therewith.</i> <i>4.2.3.3 If at any time during the progress of the Works, any error shall appear or arise in the position, levels, dimensions or alignment of any part of the Works, the Contractor, on being required to do so by the Employer’s Agent, shall at his own expense rectify such error to the satisfaction of the Employer’s Agent, but if such error is based on incorrect data supplied in writing by the Employer’s Agent or if there is any delay in providing the particulars required in terms of Clause 4.2.3.1, the Contractor shall, in respect of that delay and the Cost of such rectification, be entitled to make a claim in accordance with Clause 10.</i> |

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| | | <p>4.2.3.4. <i>The Contractor shall carefully protect and preserve all benchmarks, sight-rails, pegs and other things used in setting out the Works.</i></p> <p>4.2.3.5. <i>The checking of any setting-out or of any line or level by the Employer's Agent shall not relieve the Contractor of his responsibility for the correctness thereof."</i></p> |
| 4.3.1 | Compliance with applicable laws | Delete Clause 4.3.1 and replace with the following: <i>"The Contractor shall, in fulfilling the Contract, comply with all the Contract and all applicable laws, the Standards of a Reasonable and Prudent Contractor, the current Working Airside Manual relevant to the Works or the site, relevant codes of good practice and the requirements of any public authority having jurisdiction over the Works, the site or the parties. The Contractor shall promptly provide proof of such compliance at the request of the Employer's Agent."</i> |
| 4.4.7 | Assignment of benefit of subcontract | Add the following at the end of Clause 4.4.7: <i>"The Contractor shall use its best endeavours (and shall bear the onus of proving that it has done so) to ensure (save to the extent actually prevented from doing so by law), in each subcontract that he enters into, that the Contractor's rights and obligations under the subcontract are capable of being freely assigned, ceded and delegated in full, without limitation and/or further consent being required from the Contractor, to the Employer or any affiliate of the Employer."</i> |
| 4.4.8 | Payment to subcontractors | Add the following new Clause 4.4.8: <i>"4.4.8.1. If the Contractor does not make payment of any amount due and payable by him to a Subcontractor and the Employer considers that such non-payment may adversely impact the progress of the Works or generally the obligations of the Contractor under the Contract, the Employer shall be entitled to require the Contractor to supply</i> |

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| | | <p><i>evidence of payment of the Subcontractor or, as applicable, justification for the non-payment.</i></p> <p><i>4.4.8.2 In the absence of such evidence or justification to the reasonable satisfaction of the Employer, the Employer is entitled, but not obliged, to make payment directly to the Subcontractor in which event such payment is, for all purposes under the Contract, regarded as a payment made on behalf of the Contractor and at the request of and with the approval and consent of the Contractor, as a payment towards the Contract Price.</i></p> <p><i>4.4.8.3. Notwithstanding anything to the contrary in the Contract, all payments made directly to the Subcontractor shall be set off against the next payment to the Contractor.”</i></p> |
| 4.8.1 | Facilities for others | <p>Add the following at the end of Clause 4.8.1:</p> <p><i>“and shall be deemed to have made allowances in his programme for work carried out by others”</i></p> |
| 4.9. | Construction Equipment | <p>Add the following new Clauses after Clause 4.9.1 :</p> <p><i>"4.9.2 The Contractor shall ensure that any Construction Equipment brought onto the Contractor’s working areas are stored and marked in accordance with the current version of the Working Airside Manual applicable to such working areas, or other such requirements which may be communicated by or on behalf of the Employer from time to time.</i></p> <p><i>4.9.3. In order to preclude seizure by the owner of any Construction Equipment being held by the Contractor on a hire-purchase agreement for the purposes of the Contract, the Employer shall be entitled, but not obliged, to pay any such owner the amount of any outstanding instalment or other sum owing under any hire or hire-purchase agreement and in the event of his doing so, any amount thus paid by him shall be a debt payable to the Employer by the Contractor and may be deducted by the Employer from any monies owing or that may</i></p> |

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| 4.10 | Contractor's employees | <p><i>become owing the Contractor in terms of the Contract, or be recovered at law from the Contractor by the Employer.</i></p> <p><i>4.9.4 When entering into any subcontract for the execution of any part of the works, the Contractor shall incorporate in such subcontract, by reference or otherwise, the provisions of this clause in respect of Construction Equipment brought to the Site by the subcontractor."</i></p> <p>Add the following new Clause 4.10.3: <i>"The Contractor shall:</i></p> <p><i>4.10.3.1. comply with all relevant labour laws applicable to the Contractor's Personnel relating to their employment, wages, working hours, health and safety, welfare,, immigration and emigration laws and the requirements of any public authorities having jurisdiction over the Works, the Site or the parties;</i></p> <p><i>4.10.3.2. ensure that it pays rates and wages, and observes conditions of labour, which comply with the applicable law and are not lower than those established for the trade or industry where the work is carried out. if rates no conditions are applicable, the Contractor shall pay rates of wages and observe conditions which are not lower than the general level of wages and conditions observes locally by employees whose trade or industry is similar to that of the Contractor; and</i></p> <p><i>4.10.3.3 not recruit or attempt to recruit staff and labour from amongst the Employer's personnel."</i></p> |
| 4.13 | Engagement of foreign Employees | <p>Add the following as a new Clause 4.13: <i>"4.13.1 Other than the Contractor's Key Personnel, the Contractor shall not be entitled to bring into the Country any foreign personnel to execute the Works, without the prior written consent of the Employer.</i></p> <p><i>4.13.2 Any riot, commotion, disorder, strike or lockout arising from the Contractor's use of</i></p> |

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foreign personnel shall not entitle the Contractor to make a claim. For the avoidance of doubt, the Employer is absolved from any and all liability arising from the Contractor's use of foreign personnel.

4.13.3 *The Contractor shall apply for the necessary authorities and permits together with any visas and work permits required in order for the Contractor to employ foreign personnel in South Africa. It shall be the Contractor's responsibility to ensure that obtaining the necessary authorities, permits and visas for its foreign personnel does not delay the Works. For the avoidance of doubt, the Contractor shall not be entitled to make a claim where delays in obtaining the necessary authorities, permits and visas for its foreign personnel result in a delay to the progress of the Works.*

4.13.4 *All costs incurred by the Contractor in obtaining and renewing the required permits as well as any costs incurred as a result of having failed to comply with the said relevant requirements prescribed by the said applicable laws shall be for the Contractor's account.*

4.13.5 *The Contractor shall be responsible for the return of foreign personnel to the place where they were recruited or to their domicile. In the event of the death in the Country of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return for burial."*

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5. **TIME AND RELATED MATTERS**

5.3.3 Time to instruct commencement of works Replace clause 5.3.3 with the following:
“Notwithstanding the provisions of Clause 5.3.3 of the General Conditions of Contract, commencement of the Works shall occur only upon receipt by the Contractor of a written instruction to commence issued by the Employer’s Agent in terms of Clause 5.3.1.

5.3.3.1. The Employer’s Agent shall issue such instruction only after all documentation required in terms of Clause 5.3.1 has been submitted and accepted, and all statutory approvals required for the commencement of the Works have been obtained.

5.3.3.2. No deemed commencement of the Works shall arise from any delay by the Employer’s Agent in issuing the instruction to commence.

5.3.3.3. If the Contractor has complied with all requirements of Clauses 5.3.1 and 5.3.2 and the Employer’s Agent fails to issue the instruction to commence the Works within a reasonable period after the intended Commencement of the Works, the Contractor shall be entitled to make a claim in accordance with Clause 10.1 for any proven delay to Practical Completion and/or proven additional cost.

5.3.3.4. Where delay in obtaining any statutory approval, including the Construction Work Permit, is caused by the relevant authority and is not attributable to any failure by the Contractor to provide complete and timely information, nor to any delay by the Employer in making submissions to such authority, such delay shall be treated as a

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| | | <i>neutral event. The Contractor shall be entitled to an extension of time in accordance with Clause 10.1 but shall not be entitled to any additional compensation arising from such delay.”</i> |
| 5.6.2 | Contents of the programme | Add the following at the end of Clause 5.6.2: <i>“For each operation, a statement of how the Contractor plans to do the work identifying the principle equipment and other resources which he plans to use.”</i> |
| 5.9.1 | Instructions | Add the following paragraph at the end of Clause 5.9.1: <i>“All additional copies, whether provided by the Employer’s Agent or reproduced by the Contractor, shall be to the Contractor’s account.”</i> |
| 5.9.7 | Employer’s Agent to approve Contractor’s design and drawings | Amend Clause 5.9.7 by adding the following new provisions after Clause 5.9.7.1: <i>“5.9.7.2 Where applicable, the Contractor submits the Contractor’s Design Documents to the Employer’s Agent for acceptance at the times and in the manner and format stated in the works information.</i> <i>5.9.7.3 The Employer’s Agent returns each Contractor’s Design Document to the Contractor marked either ‘A’ (accepted), ‘B’ (accepted with comments) or ‘C’ (rejected). If the Employer’s Agent marks a Contractor’s Design Document ‘B’ or ‘C’, he states his reasons. A reason for not accepting a Contractor’s Design Document is that it does not comply with: (a) the Scope of Work; (b) any previous Contractor’s design documents which the Employer’s Agent has returned marked ‘A’, or the Employer’s Agent has returned marked ‘B’ and the Contractor has amended to incorporate the Employer’s</i> |

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Agents comments; (c) the applicable law; or (d) any other provision of this Contract.

5.9.7.4 *If the Employer's Agent does not return a Contractor's design document within the period for reply, it is treated as having been returned marked 'A'.*

5.9.7.5 *Where a Contractor's design document is returned marked 'A', the Contractor proceeds with the relevant work in accordance with the Contractor's Design Document.*

5.9.7.6 *Where a Contractor's Design Document is returned marked 'B', the Contractor: (a) amends the Contractor's design document to incorporate the Employer's Agents comments; (b) submits the Contractor's design document as so amended to the Employer's Agent; and (c) proceeds with the relevant work in accordance with the Contractor's Design Document as so amended.*

5.9.7.7 *Where a Contractor's Design Document is returned marked 'C', the Contractor: (a) amends the Contractor's Design Document to incorporate the Employers Agent's comments; (b) re-submits it to the Employers Agent for acceptance; and (c) does not proceed with the relevant work until the Employers Agent has returned it marked 'A' or 'B' and, where it is marked 'B', has complied with clause 5.9.7.6.*

5.9.7.8 *If the Contractor disagrees with a comment of the Employers Agent on a Contractor's Design Document marked 'B' or 'C', he notifies the Employers Agent within one week of receipt stating his reasons and that*

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in his opinion compliance with the comment will give rise to a change in the works information. The Employers Agent replies within one week of receipt of the Contractor's notice either confirming or withdrawing his comment. A confirmation or withdrawal by the Employers Agent is not an acceptance of the Contractor's opinion.

5.9.7.9 If the Contractor does not notify the Employers Agent within one week that he disagrees with a comment of the Employers Agent, compliance with the comment does not give rise to a variation in terms of the Contract.”

5.9.8 Drawing and Specifications by the Contractor

Add the following as a new Clause 5.9.8:

“5.9.8.1 The originals of all drawings and specifications prepared by or on behalf of the Employer’s Agent shall remain in his custody and references herein to delivery to the Contractor of drawings or specifications shall relate to true copies thereof both in hard copy and electronic format.

5.9.8.2. The Contractor shall be entitled to receive free of charge, to the extent provided in the Contract, copies of each such drawing and specification and to receive, or reproduce, such additional copies as he shall reasonably require. All additional copies, whether provided by the Employer’s Agent or reproduced by the Contractor, shall be to the Contractor’s account.

5.9.8.3 One copy of all documents constituting the Contract shall be kept on the Site and be available for perusal by the Employer’s Agent or any person authorised by him.

5.9.8.4 The Contractor shall, in accordance with the Employer’s Agent’s instructions, maintain a register on the Site of all

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| | | <i>drawings and revisions thereof in the chronological order in which they are delivered to him."</i> |
| 5.10 | Delays attributable to the Employer | Add the following at the end of Clause 5.10.1: <i>"Notwithstanding anything to the contrary contained in the Contract, the Contractor shall not be entitled to claim if the Contractor would have in any event been delayed but for the Employer's conduct."</i> |
| 5.11.2 | Claims as a consequence of suspension | Add the following after "the Contractor," in the second line of Clause 5.11.2: <i>"or by reason of any contractor executing construction work, which is not in accordance with, the Contractor's Health and Safety Plan for the Site or which poses a threat to the health and safety of persons,"</i> |
| 5.11.4 | Inspection of the Works after suspension | Add the following new Clause 5.11.4: <i>"5.11.4.1. Prior to resuming work following a suspension, the Contractor and the Employer shall jointly inspect the portion of the Works affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works which has occurred during the suspension. 5.11.4.2. Unless the suspension was by reason of some default or breach of the Contract by the Contractor, the Contractor shall be entitled to claim the proven remedial costs from the Employer. The Contractor shall thereafter without any delay resume with the Works"</i> |
| 5.12.1 | Extension of the Time for Practical Completion | Delete the last sentence of Clause 5.12.1 and replace with the following: <i>"Such extension of time shall take into account any special non-working days and all relevant circumstances in respect of such claim. The Contractor shall not be entitled to make a claim if the Works would have in any event been delayed for reasons attributable to the Contractor."</i> |
| 5.13.3 | Interim milestone penalty | Add the following new Clause 5.13.3: |

| Clause Ref. | Sub-Heading | Special Conditions |
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| | | <i>"Fifty per cent (50%) of the penalty as stated in the Contract Data (5.13) shall also be applicable should the Contractor fail to achieve the interim milestone dates as stated in Clause C3.5.1(a) (Management of the Works)."</i> |
| 5.13.4 | Cap on penalty for delay | Add the following new Clause 5.13.4: <i>"The penalties payable by the Contractor shall be limited to the amount stated in the Contract Data. Upon reaching the cap on the penalties payable by the Contractor, the Employer shall be entitled to terminate the Contract immediately on notice to the Contractor".</i> |
| 5.14.1 | Practical Completion | Amend the second sentence of the second paragraph of Clause 5.14.1 to read as follows: <i>"Should the Employer's Agent not issue such list within the 14 days, then the Contractor shall notify the Employer's Agent and the Employer. If the Employer's Agent or the Employer fail to respond to the Contractor's notice or issue the list of work required for Practical Completion within a further seven days, Practical Completion shall be deemed to be achieved at the expiry of the seven day period."</i> |
| 5.14.2 | Issue of Certificate of Practical Completion | The last paragraph of this Clause is deleted. In the second line of Clause 5.14.2, replace the words <i>"the Employer's Agent"</i> with the following: <i>", the Contractor shall notify the Employer's Agent, who shall inspect the Works and the Employer's Agent"</i> |
| 5.14.4 | Certificate of Completion | Add the following at the end of Clause 5.14.4: <i>"However, a Certificate of Completion will not be issued before the Contractor hands over a consolidated Health and Safety file that shall include all the specified information."</i> |
| 6. | PAYMENT AND PAYMENT RELATED MATTERS | |
| 6.2.1 | Delivery of Security | Add the following at the end of Clause 6.2.1: |

| Clause Ref. | Sub-Heading | Special Conditions |
|-------------|--|---|
| | | <i>"The security delivered by the Contractor shall be an unconditional, on-demand guarantee, provided by a bank or insurer approved by the Employer and in the form set out in Appendix 3 of the Contract."</i> |
| 6.5.3 | Details to be recorded | In the last sentence on Clause 6.5.3: Delete the first word " <i>If</i> " and replace with " <i>When</i> ". |
| 6.6.1 | Provisional sums | In the first line of Clause 6.6.1.2.1 after the word " <i>sums</i> " and the fourth line of Clause 6.6.1.2.2 after the word " <i>amount</i> ", insert the words " <i>excluding VAT</i> ." |
| 6.8.2 | Application for contract price adjustment factor | In the second line of clause 6.8.2, insert " <i>VAT and</i> " after the word " <i>excluding</i> " in the parenthesis. |
| 6.9.6 | Waiver of Contractor's lien | Add the following new Clause 6.9.6 <i>"The Contractor and its subcontractor's waives, in favour of the Employer, any lien or right of retention that is or may be held in respect of the Works, Equipment, Plant and materials on the Site"</i> |
| 6.10.2 | Valuation of material bought on to Site | Amend Clause 6.10.2 by replacing the second sentence (commencing " <i>The valuation of such materials...</i> ") with the following: <i>"The valuation of such materials shall be based on the purchase price and delivery cost reflected by the relevant invoices or receipts, exclusive of Value Added Tax and discounts to the Contractor and inclusive of any other duties payable on such material. (Value Added Tax will be added only to the nett amount certified by the Employer's Agent as payable to the Contractor in respect of each Payment Certificate, as provided for in Clause 6.10.1;"</i> |
| 6.10.3 | Retention money | Add the following at the end of Clause 6.10.3: <i>"A retention guarantee may be provided in lieu of cash retention. The retention guarantee shall be to the value of stated in the Contract Data. The retention guarantee shall be issued by the Contractor at the Commencement Date of this Contract. The retention guarantee shall be returned to the Contractor within 14 days."</i> |

| Clause Ref. | Sub-Heading | Special Conditions |
|-------------|---|---|
| 6.11 | Variations exceeding 15 per cent | In Clause 6.11, replace "15 per cent" in the heading, the marginal heading and in Clause 6.11.1.3 with "20 per cent". |
| 7. | QUALITY AND RELATED MATTERS | |
| 7.2.1 | Quality of Plant, workmanship and materials | <p>Clause 7.2.1 is renumbered as Clause 7.2.1.1 and the following new Clauses are added at the end of Clause 7.2.1:</p> <p><i>“7.2.1.2. The onus rests with the Contractor to produce work which conforms in quality and accuracy of detail to all the requirements of the specifications and drawings, and the Contractor shall, at his own expense, institute a quality-control system and provide experienced personnel, together with all transport, instruments and equipment, to ensure adequate supervision and positive control of the works at all times.</i></p> <p><i>7.2.1.3 The Employer’s Agent shall be entitled to audit any aspect of the Works.</i></p> <p><i>7.2.1.4 The details of all quality documents; test procedures and compliance documents must be submitted, five (5) days before each design and execution stage commences, to the Employer’s Agent for information.”</i></p> |
| 7.4.1 | Samples of materials | <p>Clause 7.4.1 is renumbered to Clause 7.4.1.1 and the following new Clauses are added at the end of Clause 7.4.1:</p> <p><i>“7.4.1.2 The Contractor shall conduct tests or have them conducted continually on a regular basis, to check the properties of natural materials and processed natural materials and of products manufactured on site, such as concrete and asphalt. Although not a requirement for the Contractor to conduct regular tests on any commercially produced products such as cement, bitumen, steel and pipes, the Contractor shall remain fully responsible for any defective material or equipment provided by him.</i></p> |

| Clause Ref. | Sub-Heading | Special Conditions |
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| | | <p><i>7.4.1.3 Similarly, the quality of all elements of the works shall be checked on a regular basis by the Employer's Agent and/or the Employer's Agent Representative so as to ensure compliance with the specified requirements. The intensity of control and of tests to be conducted by the Contractor in terms of these obligations is not specified but shall be adequate to ensure that proper control is being exercised to the satisfaction of the Employer's Agent The Contractor shall be fully responsible for any defective material or equipment provided, and any consequences thereof. Where any natural materials or products made from natural materials are supplied, upon completion of each element of the construction works, the Contractor shall test and check such materials, products and or elements for compliance with the specified requirements and shall submit his results to the Employer's Agent for approval. Such submission shall include all his measurements and test results and shall furnish adequate proof of compliance with the specified requirements."</i></p> |
| 7.6.3.3 | Removal of improper work and materials | <p>Add the following new Clause 7.6.3.3: <i>"To stop any contractor from executing construction work, which is not in accordance with, the Contractor's health and safety plan for the Site or which poses a threat to the health and safety of persons and to implement the required health and safety measures before continuing."</i></p> |
| 8.3.1.4 | Excepted risks | <p>Add the following new Clause 8.3.1.4: <i>"Risk arising from political riot and malicious damage, unless these risks are insurable with the South African Special Risk Insurance Association at the time of tendering and it is stipulated in the Contract Data that the Contractor is to effect insurance against these risks."</i></p> |
| 8.3.1.4. | Excepted risks | <p>Add the following at the end of 8.3.1.4:</p> |

| Clause Ref. | Sub-Heading | Special Conditions |
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“Provided that all of the following conditions are satisfied:

- (a) *The Contractor has engaged with the persons responsible for the strike, riot, commotion, disorder, violent demonstrations, sabotage other civil disturbance; has met with the relevant persons or leaders; and has recorded such relevant persons’ or leaders’ details, their grievances, the organisations involved, all threats made; and has requested the persons or leaders to cease all unlawful conduct;*
- (b) *The Contractor has obtained proof of the strike, riot, commotion, disorder, violent demonstrations, sabotage or other civil disturbance;*
- (c) *The Contractor has reported all threats and unlawful conduct to the South African Police Service;*
- (d) *The Contractor has brought an urgent application to the court that correctly identifies and defines the unlawful conduct to be interdicted; and*
- (e) *The Contractor has ensured that the court order obtained pursuant to the urgent court application is enforced.*

| Clause Ref. | Sub-Heading | Special Conditions |
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| 8.4.1.1 | Injury to persons and damage to property | Delete and replace with the following Clause 8.4.1.1: <i>“hereby indemnifies the Employer, the Employer’s Agent and all consultants against any liability in respect of damage to or physical loss of the property of any person, including any employee of the Contractor, or injury to or death of any person, including any employee of the Contractor and”</i> |
| 8.4.3 | <i>Limitation of Liabilities</i> | Add the following new Clause 8.4.3: <i>“8.4.3.1 Neither Party shall be liable to the other Party for the loss of any Works, loss of profit, loss of any contract or for any indirect consequential loss or damage which may be suffered by the other Party in connection with the Contract. 8.4.3.2 The Contractor’s liability under the Contract shall be limited to the amount stated in the Contract Data. 8.4.3.3 The following shall be excluded from the calculation of the limitation of liability: (a) any proceeds received from any project insurances required in terms of the Contract or any proceeds which would have been received from any project insurances but for the conduct of the Contractor; (b) delay and performance liquidated payable by the Contractor under the Contract; (c) all indemnities provided in the Contract; (d) retention monies; (e) any amounts paid to the Employer pursuant to the security provided under the Contract. 8.4.3.4 The Employer’s liability shall be limited to the Contract Sum. 8.4.3.5 This clause shall not be limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party”.</i> |
| 8.7 | Early Warning Events | Add the following new Clause 8.7: <i>“8.7.1 In order to mitigate risk, the Employer and the Contractor require open and effective communication and co-operation to deal with events, circumstances or factors which may</i> |

| Clause Ref. | Sub-Heading | Special Conditions |
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*adversely affect the Works or the progress thereof, including any events, circumstances or factors which may delay the execution of the Works or increase the Contract Price, or otherwise adversely affect the Project or the Employer's operations on Site ("**Early Warning Event**").*

*8.7.2 With a view to facilitating this, the Contractor shall notify the Employer of Early Warning Events by way of an Early Warning Event register ("**Risk Register**") which shall be maintained, updated and submitted by the Contractor to the Employer on a weekly basis. The Contractor shall co-ordinate weekly early warning meetings at the Site for the purpose of discussing Early Warning ("**Risk Reduction Meetings**").*

8.7.3 The Risk Reduction Meetings shall be attended by the Employer's Agent and the Contractor with the requisite expertise and authority to take decisions on behalf of the Parties at such meetings.

8.7.4 The updated Risk Register shall be submitted to the Employer at each such meeting.

8.7.5 In each notice given in the Risk Register the Contractor shall provide: (a) detailed particulars of the event and the potential adverse effects; and (b) Proposals for the steps to be taken to mitigate the potential adverse effects thereof.

In addition, either of the Parties shall be entitled, by written notice, to require the other Party to attend a Risk Reduction Meeting in respect of any Early Warning Event (whether or not notified by the Contractor).

8.7.6 The purpose of the Risk Reduction Meeting is to raise and discuss Early Warning Events in a cooperative manner and to jointly make and consider proposals and seek solutions to mitigate the potential adverse effects thereof.

| Clause Ref. | Sub-Heading | Special Conditions |
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8.7.7 *The early warning notice and Risk Reduction Meeting contemplated in this Clause are intended as a risk management tool and open discussion is of paramount importance. To this end:*

8.7.7.1 *notification in terms of this Sub-Clause shall not constitute notification of a claim for extension of time or additional cost pursuant to Clause 10.1 Extension of time for Practical Completion] or otherwise under the Contract (and to the extent that the Contractor wishes to give such notice in respect of a notified Early Warning Event he shall do so in a separate notice in accordance with the relevant provisions of the Contract; and*

8.7.7.2 *unless otherwise specifically agreed in writing by the Employer and the Contractor from time to time nothing raised or agreed at any Risk Reduction Meeting shall limit or derogate from the rights and obligations of the Parties under the Contract.*

8.7.8 *If the Employer’s Agent has notified the Contractor of his decision that the Contractor did not give an early warning which an experienced Contractor should have given, the claim shall be assessed as if the Contractor had given an early warning such that the Contractor shall not be compensated for any cost or delay that could reasonably have been avoided had such early warning been given.”*

9 TERMINATION OF CONTRACT

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| 9.1.1 | Termination due to external events | In the second line of Clause 9.1.1, delete the words “ <i>in any part of the world</i> ” and replace with “ <i>within the jurisdiction of the Site</i> ”. |
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| 9.1.4 | Increased costs | The second paragraph of Clause 9.1.4 is amended to read as follows: “ <i>Provided that the Contractor shall, as soon as any such increased Costs comes to his knowledge, and in any event no later than 14 days becoming aware of, or when the Contractor should have reasonably</i> |
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| Clause Ref. | Sub-Heading | Special Conditions |
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| | | <i>become aware of such increased Cost, notify the Employer's Agent thereof, in writing. The provisions of Clause 6.4 shall then apply, with the necessary changes."</i> |
| 9.2.4 | Termination for convenience | Add the following new Clause 9.2.4: <i>"Notwithstanding any other termination rights that the Employer may have under in terms of clause 9.2, the Employer may at any time, in its absolute discretion and without cause, terminate the Contract in whole or in part by giving 90 (ninety) days written notice to the Contractor of its intention to terminate. Subject to the Employer's rights under the Contract to deduct amounts owing to the Contractor in terms of clause 6.10.6, the Employer must pay the Contractor, as the Contractor's sole remedy in relation to the termination, all proven amounts due and unpaid for the Work completed at the date of termination.</i> |
| 10 | CLAIMS AND DISPUTES | |
| 10.5.1 | Dispute resolution by standing adjudication | Add the following at the end of Clause 10.5.1: <i>"The member of the Adjudication Board shall be selected from the panel of Adjudication Board Members attached as Appendix 8 [the Adjudication Board panel]."</i> |
| 10.5.2 | Dispute resolution by ad-hoc adjudication | Add the following at the end of Clause 10.5.2: <i>"The member of the Adjudication Board shall be selected from the panel of Adjudication Board Members attached as Appendix 8 [the Adjudication Board panel]."</i> |
| 10.7.4 | Urgent relief | Add the following new Clause 10.7.4: <i>"Nothing herein contained shall be deemed to prevent or prohibit a party to the arbitration from applying to the appropriate court for urgent relief or for judgment in relation to a liquidated claim."</i> |
| 10.8 | Court proceedings | Delete Clause 10.8 and replace with the words "[NOT USED]" |
| 10.9.1 | Appointment of dispute resolving person | Amend Clause 10.9 by deleting reference to <i>"the South African Institution of Civil Employer's</i> |

| Clause Ref. | Sub-Heading | Special Conditions |
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| | | <i>Agenting</i> " and substituting with " <i>the Johannesburg Bar Council</i> ". |
| 10.10.1 | Contractor's right to court proceedings | Delete Clause 10.10.1 and replace with the words "[NOT USED]" |
| 1.1.1.16 | <i>Add the following to Clause 1.1.1.16:</i> | |
| | "Where reference is made to the term 'Engineer' in the Project Specifications or anywhere in the contract document, the terms 'Engineer and Employer's Agent' shall have the same meaning." | |
| 2.4.3 | <i>Add the following Clause 2.4.3</i> | |
| 2.4.3.1 | "The originals of all Drawings and Specifications prepared by or on behalf of the Employer's Agent shall remain in his custody and references herein to delivery to the Contractor of Drawings or Specifications shall relate to true copies thereof. | |
| 2.4.3.2 | The Contractor shall be entitled to receive free of charge, to the extent provided in the Contract, copies of each such Drawing and Specification and to receive, or reproduce, such additional copies as he shall reasonably require. | |
| | All additional copies, whether provided by the Employer's Agent or reproduced by the Contractor, shall be to the Contractor's account. | |
| 2.4.3.3 | One copy of all documents constituting the Contract shall be kept on the Site and be available for perusal by the Employer's Agent or any person authorised by him. | |
| 2.4.3.4 | The Contractor shall, in accordance with the Employer's Agent's instructions, maintain a register on the Site of all Drawings and revisions thereof in the chronological order in which they are delivered to him." | |
| 4.1.2 | <i>Amend the first three lines to read:</i> | |
| | "Where any part of the Works, whether permanent or temporary is designed by the Contractor, he shall, notwithstanding any approval of the Employer's Agent be liable for any error or deficiency in any design, drawing or document and any loss or damage arising out of such error or deficiency." | |
| | <i>Add the following new Clause 4.2.3:</i> | |
| 4.4.2 | Liability for Subcontractors | |
| | <i>Add the following to Clause 4.4.2 after the last sentence:</i> | |
| | "The Contractor shall not subcontract any part of the Contract without the prior written consent of the Employer's Agent, which consent shall not be unreasonably withheld." | |
| 5.3.3 | Time to instruct commencement of the Works | |
| | <i>Add the following to Clause 5.3.3 after the last sentence:</i> | |

"The Contractor shall not commence working until they have an approved project specific health and safety plan in terms of the Occupational Health and Safety Act, 1993: Construction Regulations, 2014 and complied with the initial requirements thereof."

5.9.1 *Add the following paragraph:*

"All additional copies, whether provided by the Employer's Agent or reproduced by the Contractor, shall be to the Contractor's account."

5.11.4 *Add the following after "the Contractor," in the third line:*

"or by reason of any contractor executing construction work, which is not in accordance with, the Contractor's Health and Safety Plan for the Site or which poses a threat to the health and safety of persons."

5.13.3 *Add the following new Clause:*

"Fifty per cent (50%) of the penalty as stated in the Contract Data (5.13) shall also be applicable should the Contractor fail to achieve the interim milestone dates as stated in Clause C3.5.1(a) (Management of the Works)."

5.14.2 Issue of Certificate of Practical Completion

Replace "the Employer's Agent" in the second line with the following:

", the Contractor shall notify the Employer's Agent, who shall inspect the Works and the Employer's Agent"

5.14.4 *Add the following at the end of this Clause:*

"However, a Certificate of Completion will not be issued before the Contractor hands over a consolidated Health and Safety file that shall include all the specified information."

6.5.3 *In the last sentence:*

Delete the first word "If" and replace with "When".

6.6.1 *In the first line of Clause 6.6.1.2.1 after the word "sums" and the fourth line of Clause 6.6.1.2.2 after the word "amount" insert "excluding VAT."*

6.8.2 *Insert "VAT and" after "excluding" in the parenthesis in the third line.*

6.10.2 *Replace the second sentence (commencing "The valuation of such materials") with the following:*

"The valuation of such materials shall be based on the purchase price and delivery cost reflected by the relevant invoices or receipts, exclusive of Value Added Tax and discounts to the Contractor and inclusive of any other duties payable on such material. (Value Added Tax will be added only to the nett amount certified by the Employer's Agent as payable to the Contractor in respect of each Payment Certificate, as provided for in Clause 6.10.1;"

6.11 Variations exceeding 15 per cent

Replace "15 per cent" in the heading, the marginal heading and in Clause 6.11.1.3 with "20 per cent".

7.2.1 *Add the following to this sub-clause:*

“The onus rests with the Contractor to produce work which conforms in quality and accuracy of detail to all the requirements of the specifications and drawings, and the Contractor shall, at his own expense, institute a quality-control system and provide experienced personnel, together with all transport, instruments and equipment, to ensure adequate supervision and positive control of the works at all times.”

7.6.3.3

Add the following new Clause:

“To stop any contractor from executing construction work, which is not in accordance with, the Contractor’s health and safety plan for the Site or which poses a threat to the health and safety of persons and to implement the required health and safety measures before continuing.”

8.3.1.4

Delete and replace with the following:

“Risk arising from political riot and malicious damage, unless these risks are insurable with the South African Special Risk Insurance Association at the time of tendering and it is stipulated in the Contract Data that the Contractor is to effect insurance against these risks.”

8.4.1.1

Delete and replace with the following:

“hereby indemnifies the Employer, the Employer’s Agent and all consultants against any liability in respect of damage to or physical loss of the property of any person, including any employee of the Contractor, or injury to or death of any person, including any employee of the Contractor and”

8.6

Delete and replace with the following:

8.6.1 **Insurance Effected By The Employer**

8.6.1.1 Notwithstanding anything elsewhere contained in this Contract and without limiting the obligations, liabilities or responsibilities of the Contractor in anyway whatsoever (including but not limited to any requirement for the provision by the Contractor of any other insurances) the **Employer** shall effect and maintain for the duration of the construction and maintenance periods of the Contract - as appropriate in the joint names of the Employer, the Contractor and where relevant Sub-Contractors the following insurances which are subject to the terms, limits, exceptions and conditions of the Policy:

a) **Contract Works/Contractors Public Liability/ Removal Of Lateral Support Liability**

Section 1 Of The Policy – Contract Works

Contract Works Insurance for the full value of the Works to provide cover against accidental physical loss of or damage to the Works, Temporary Works and materials intended for incorporation in the Works all being the subject matter of this Contract including to the extent provided for in the policy whilst in transit or temporarily stored at any premises enroute to or from the Site (other than where this is a continuation of Marine Transit) within the territorial limits of the policy.

This insurance may specifically exclude any cost necessary to replace or rectify any of the property insured, which is in a defective condition due to defect in design, plan specification, material or workmanship.

This insurance contains the following limitations and warranties;

Open Trench Limitation

In respect of loss or damage to open trenches and pipes, conduits or cables laid therein, caused directly or indirectly by rain, inundation or flood, Insurers liability shall be limited in respect of the aggregate length of open trenches at any one time to 200 meters.

Exposed Layer Works (applicable to works involving paving, roadways and associated earthworks)

*In respect of loss or damage to Exposed Layer Works relating to paving, roadways and associated earthworks caused directly or indirectly by rain, inundation or flood, Insurers liability shall be limited in respect of the aggregate length of Exposed Layer Works at any one time to **25,000 square meters**.*

Section II of the Policy – Contractors Public Liability

Public Liability Insurance which provides indemnity against legal liability in the event of accidental death of or injury to persons and/or loss of or damage to property (other than the Works the subject matter of this Contract) arising from the execution of the Contract with a limit of indemnity of **R50,000,000** in respect of any one occurrence or series of occurrences consequent on or attributable to one source or original cause.

Section III of the Policy – Removal Of Lateral Support Liability

Removal Of Lateral Support Liability which provides indemnity against legal liability in the event of accidental death of or injury to persons and/or loss of or damage to property (other than the Works the subject matter of this Contract) arising out of or in connection with shock or vibration or the removal or weakening of or interference with support to property in the vicinity of the Contract Site and arising out of or in connection with the Insured Contract (but not in respect of tunneling works) and occurring during the Period of Insurance.

The Limit of Indemnity being limited to **R20,000,000** attributable to one source or original cause.

- b. Contract Works SASRIA – Providing physical** loss of or damage to the Works, Temporary Works and materials intended for incorporation in the Works as covered by the underlying Contract Works policy as noted in (a) above due to perils as covered in terms of the SASRIA Contract Works wording as issued by SASRIA SOC.

The Contract Works SASRIA cover excludes consequential or indirect loss or damage of any kind or description whatsoever.

The SASRIA Contract Works policy is limited to **R500,000,000 (Incl VAT)** in the aggregate during the policy period of insurance.

The Contract Works SASRIA policy wording can be obtained from the SASRIA website <http://www.sasria.co.za/> which notes the covers and policy exclusions.

- c. Aviation Liability Insurance** which provides indemnity against legal liability in the event of accidental death of or injury to persons and/or loss of or damage to property (other than the Works the subject matter of this Contract) arising from the execution of the Contract with a

limit of indemnity of **R500,000,000** in respect of any one occurrence or series of occurrences consequent on or to one source or original cause.

This insurance is in respect of liability relating to aircrafts.

- d. Design & Construct Professional Indemnity Insurance** which provides indemnity against legal liability to pay compensation as a result of any actual or alleged negligent act, error or omission in the performance of the Professional Duties of the insured and arising from the execution of this project. The limit of indemnity under this insurance shall be ***R25,000,000 in the aggregate during the annual policy period of insurance that ACSA effect such cover during the policy period from 1 April to 31 March during each policy period of insurance.**

****The limits of indemnity applies to all ACSA contracts as a whole and does not apply specifically to this contract. The aggregate limit could be exhausted by claims under other ACSA contracts and there is no guarantee that this insurance cover will provide sufficient cover to this specific contract should the aggregate limit be exhausted.***

The Policy only covers the rectification of the works and excludes all consequential losses.

Professional Duties do not include:

- a) Labour and construction work which would normally be the responsibility of the building or engineering contractor.
- b) Supervision of the construction works usually undertaken by a building or engineering contractor.

8.6.1.2 **The Contractor** shall familiarise itself fully with the details of such insurance effected by the Employer. The Contractor shall comply to all the terms and conditions of the Employer arranged policies and the Contractor shall be deemed to be fully aware of all the conditions, limits, limitations, exclusions/exceptions and deductibles that are contained in the Employer arranged policies. Copies of the Employer arranged policies are obtainable on request from the Employer and if the Contractor is of the opinion that additional insurance is required, such shall be for the Contractors account.

8.6.1.3 The Employer shall pay the premium in connection with the insurances effected by the Employer. The Employer is entitled to all return premiums, dividends, discounts, or adjustments in connection with the insurances effected by the Employer.

8.6.1.4 The Contractor shall not include any premium charges for this insurance except to the extent, which he may deem necessary in his own interests to effect supplementary insurance to the insurance effected by the Employer. The Employer reserves the right to call for full information regarding insurance costs included by the Contractor.

In the event that the Contractor purchases any insurances in addition to those indicated above, the premium and taxes, duties, etc. shall be borne entirely by the contractor.

8.6.1.5 Any further clarification of the scope of cover provided by the Policies arranged by the Employer should be obtained from the Employer.

8.6.1.6 The Contractor and/or any other party who obtains indemnity under the policies effected under 8.6.1.1 shall become liable for the deductibles (first amount payable) which are applicable in respect of each and every occurrence or series of occurrences attributable to one source or

cause giving rise to loss or damage or indemnifiable liability. The deductibles applicable to the policies effected under 8.6.1.1 are as follows:

a) Contract Works/Contractors Public Liability/ Removal Of Lateral Support Liability

Unless stated otherwise in the Policy Extensions the Deductibles shall be as follows which will apply in respect of each and every occurrence or series of occurrences arising out of or in connection with any one event giving rise to loss or damage:

Section 1 Of The Policy – Contract Works

In respect of all loss or damage :

- a) arising out of storm (which term shall include rain, wind, tempest or flood) subsidence, collapse, earth-quake or earth-tremor - **R250,000** each and every occurrence.
- b) arising from any other cause not listed in (a1) above - **R150,000** each and every occurrence.

Section 2 Of The Policy – Contractors Public Liability

R75,000 each and every claim in respect of Property Damage.

Section 3 Of The Policy – Removal Of Lateral Support Liability

R100,000 each and every claim.

b) Contract Works SASRIA

In respect of theft as a result of the SASRIA perils insured - **R25,000** each and every occurrence.

c) Aviation Liability Insurance;

In respect of each and every loss or damage or injury - **US\$250,000**.

d) Design & Construct Professional Indemnity Insurance

In respect of each and every occurrence – **R10,000,000**.

8.6.1.7 In the event of any occurrence which is likely to give rise to a claim under the insurance arranged by the Employer, the Contractor shall:

- a) In addition to any statutory requirement or other requirements contained in the Contract immediately notify the Employer and the Employer's Insurance Brokers by telephone, mobile phone or email giving the circumstances, nature and an estimate of the loss or damage or liability. The Contractor must also complete the Claim Advice Form (Appendix "A").

The following persons/insurers must be advised immediately on the occurrence of a claim on site or even a possibility of a claim arising due to an incident occurring on site:

Willis South Africa (Pty) Limited:

Thabo Mofolo
Tel: +27 (0)11 535 5400

M: +27 (0)83 445 6916
Thabo.mofolo@wtwco.com

Charmaine Moreira
D: +27 (0)11 082 8618
M: +27 (0)79 330 5409
Charmain.moreira@wtwco.com

Biko Meletse
D: +27 (0)11 082 8744
M: +27 (0)79 886 7920
Biko.meletse@wtwco.com

- b) Preserve damage and make it available for inspection by a representative of the Insurers.
- c) Wherever possible, photographs of damage should be taken.
- d) Inform the police authorities promptly in the event of loss or damage by theft, burglary or any malicious persons(s) for the purpose of recovering any property so lost, discovering the guilty person or persons, and having him, her or them duly prosecuted.
- e) Advise the Insurers of any other insurance(s) which may cover the same loss, damage or injury, or any part thereof.
- f) Give to the Insurers every assistance to enable the Insurers to settle or resist any claim against the Insured, or institute any proceedings;
- g) On completion the Claims Advice Form, the form must be sent to the Employers Insurance Brokers for further action (the original may be emailed to the Employers Insurance Broker). (Please do not remove the Claims Advice Form out of this document. Rather photocopy the form and send the copy to the Employers Insurance Brokers).
- h) The Employer and the employers Insurance brokers / Insurers or their appointed loss adjusters shall have the right to make all and any enquiry's on the Site of the Works or elsewhere as to the cause and results of any such occurrence and the Contractor shall co-operate in carrying out such enquiry's.
- i) The Contractor, Project Managers and Consultants must allow free access to Insurers' assessors for the purpose of investigating and assessing the loss or damage.
- j) The Contractor must not proceed with the making good any off the loss without the prior authorisation of the Insurers.**
- k) The Contractor must keep separate records of the costs involved in making good any loss or damage and these records should be available at all times for inspection by Insurers. Such records should include inter alia the entire cost of labour, materials, transport and equipment.
- l) Where required by the Employer, negotiate the settlement of claims with the Insurer or their appointed loss adjusters through the Employer's Insurance Brokers and shall obtain the Employer's approval of such settlement.
- m) Once the amount of a claim is agreed by the Insurers and the Contractor, an "Agreement of Loss" form must be signed by the Contractor and if required this shall be counter signed by the Employer or the Project Managers.
- n) The proceeds of such claim will, if required by the Employer, be paid net of any Deductible applicable under the policy by the Insurers to the Employer who on receipt thereof will arrange for payment to be made in terms of the Conditions of Contract. In the event that it

is agreed by the Employer that such claims payment be made directly to the Contractor, the Contractor shall arrange for the Employer to endorse the "Agreement of Loss" to this effect.

Insurance Effected by the Contractor.

In addition to Clause 8.6.1.1 in respect of the insurances effected by the Employer the following Insurances to be effected by the Contractor:

8.6.2

Without limiting the Contractor's obligations, responsibilities and liabilities, the Contractor and Sub-contractor shall maintain at the Contractor's and Subcontractor's expense and where applicable provide as a minimum the following insurances:

8.6.2.1

a) **Insurance of Construction Plant and 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.

The Employer shall be named as additional insured and a waiver of subrogation shall be provided to the Employer.

b) **Contractor's Common Law Liability/ Worker's Compensation Insurance**

The Contractor shall take out and maintain employer's liability insurance with a limit of indemnity of not less than **R20,000,000** and/or workmen's compensation insurance covering personal injury to or death of the employees of the Contractor engaged in connection with the Works to the minimum value required by applicable law.

The Contractor shall procure that its Subcontractors take out and maintain similar insurance in respect of its Subcontractor's personnel performing the Works.

In the event that a claim is made against the Employer in connection with such insurance, the Contractor shall indemnify and hold harmless the Employer against any such claim. The Employer shall be named as additional insured and a waiver of subrogation shall be provided to the Employer.

c) **Motor Vehicle Liability Insurance** comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability indemnity with a limit of indemnity of not less than **R5 000 000** for all owned, non-owned, leased and hired vehicles.

d) **Insurance For Buy-Down Cover Of Employer's Deductibles**

Should the Contractor believe that the Employer effected Contract Works, Public Liability, Removal Of Support Liability, Aviation Liability and Design & Construct Professional Indemnity deductibles as noted in Clause 1.6 (a),(c) and (d) be considered to be unacceptable to the Contractor, then the Contractor must obtain Buy Down cover for these deductibles to a deductible considered by the Contractor as being acceptable in respect of the works being undertaken.

e) Where the Contract involves manufacturing and/or fabrication of the Works or parts thereof at premises other than at the Contract 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 relevant Policies of Insurance.

Such insurance shall name Employer as an additional insured, and shall be primary to any insurance maintained by the Employer.

- f) **Public Liability** insurances in excess of the Employers Public Liability insurances as stated under clause 1.1(a).
- g) **Aviation Liability** insurances in excess of the Employers Aviation Liability insurances as stated under clause 1.1(c).
- h) **Contractor's Professional Indemnity Insurance** in excess of the Employers Design & Construct Professional Indemnity insurances as stated under clause 1.1(d) and if applicable to cover the deductible that applies to the Employer effected insurance.
- i) **Marine Cargo Insurance (If Applicable)**

Cover: Imports of cargo, equipment, goods, plant, machinery and materials ("**Insured Property**") to the site where the Permanent Works will be constructed.

Sum Insured: Not less than the value of the largest single cargo shipment, conveyance or the value in storage, whichever is the greater (CIF plus 10%).

Marine / Air Cargo Insurance covering the Insured Property against all risks of physical loss or damage while in transit by land, sea or air from country of origin anywhere in the world to the site where the Permanent Works will be constructed including loading, or vice versa, from the commencement of the time the insured items are loaded prior leaving the warehouse or factory for shipment to the said site.

The insured parties are the Employer, the Contractor and its Subcontractors, and all their personnel involved in the execution of any Works on the construction site.

j) **Miscellaneous Insurance**

Other insurance as is customary, desirable or necessary to comply with applicable Laws in the Country.

The insurances to be provided by the Contractor and his Sub-contractor shall be effected with Insurers and on terms approved by the Employer (which approval shall not be unreasonably withheld) and shall be maintained in force for the duration required (including any period of maintenance/defects liability period). The Contractor shall within twenty eight (28) days of commencement of the contract produce to the Employer the relevant Policy or Policies of Insurance.

8.6.2.2

In the event that the Contractor or his Sub-contractor receives any notice of cancellation or restrictive modification to the insurance provided to them they shall immediately notify the Employer in writing of such cancellation or restriction and shall advise what action the Contractor or his Sub-contractor will take to remedy such action.

8.6.2.3

If the Contractor fails to effect and keep in force the insurances referred to then the Employer may effect and keep in force any such insurances and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount paid by the Employer from any monies due or which may become due to the Contractor or recover same as a debt from the Contractor.

Sub-Contractors.

The Contractor shall:

- a) ensure that all potential and appointed Sub-contractors are aware of the whole contents of

Names and address of witnesses _____

Estimated cost of repairs (Separate records of all costs must be kept) R _____

Person whom assessor should contact _____

Telephone/Mobile Numbers Of Contact Person _____

Email Address of Contact Person _____

Sub-Clause (2)

If required, the Contractor shall provide proof that he has paid all contributions required in terms of the Compensation for Occupational Injuries and Diseases Act, No 130 of 1993, and that he has complied with the provisions of the Occupational Health and Safety Act, No 85 of 1993 and, in respect of the later Act, shall when called upon to do so, enter into and execute an Agreement as provided under Section 37(2) of said Act. The Agreement shall be in the form included elsewhere in this document.

Add the following new Clause:

“Has failed to execute construction work in accordance with the Contractor’s Health and Safety Plan or without a threat to the health and safety of persons within fourteen (14) days after receiving from the Employer’s Agent written notice of the same.”

Add the following Clause:

“10.1.6 Early warning – A Party shall notify the other as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment. The Contractor shall take all reasonable steps to minimise these effects.

The Contractor’s entitlement to extension of the Time for Completion or additional payment shall be limited to the time and payment which would have been due if he had given prompt notice and had taken all reasonable steps.”

Part 1: Contract Data completed by the Employer

The General Conditions of Contract make several references to the Contract Data for specific data, which together with the General and Special 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 Contract Data and General Conditions of Contract shall have precedence over the Drawings, Scope of Work and Standardised Specifications in the interpretation of any ambiguity or inconsistency between these documents.

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

| Clause Reference | Contract Data | Specific Data |
|--------------------|--------------------------|--|
| 1.1.1.9 and 1.2.1 | Contractor | |
| 1.1.1.13 | Defects Liability Period | 12 Months |
| 1.1.1.14 | Due Completion Date | |
| 1.1.1.15 and 1.2.1 | Employer | The Employer is the Airports Company South Africa SOC Limited. Bram Fischer International Airport 1 Old Thaba Nchu Road Bloemfontein Address to: Airports Company South Africa Ltd; Private Bag X20562; 9300 |
| 1.1.1.16 | Employer's Agent | A-M Consulting Engineers (Pty) Ltd Office Estate North, International Business Gateway, Challenger Ave, Midridge Park, Midrand, 1685 |
| 1.1.1.26 | Pricing Strategy | The pricing Strategy is a Re-measurement Contract as defined in Clause 1.1.1.27] |

| | | |
|----------|--|--|
| 1.1.1.38 | Contractor's Side Agents | |
| 1.3.2 | Governing law | The law of the Republic of South Africa |
| 1.3.3 | Language | The language of the Contract is English |
| 2.2.4 | Contractor's right to claim | |
| 3.2.3 | Specific approval of the Employer required | <p>The Employer's Agent is required to obtain the specific approval of the Employer before executing any of the following functions or duties:</p> <ul style="list-style-type: none"> • Clause 3.3.1 Nomination of Employer's Agent's Representative • Clause 3.3.4 Employer's Agent's authority to delegate • Clause 5.8.1 Non-working times • Clause 6.3 Variations • Clause 5.11.2 Suspension of the Works • Clause 5.12.1 Extension of Time for Practical Completion • Clause 5.12.4 Acceleration instead of extension of time. |
| 5.1.1 | Time calculations | <p>Special non-working days include:</p> <ul style="list-style-type: none"> • Saturdays, Sundays and gazetted public holidays in the Republic of South Africa; and • The annual builder's break, on which the contractor grants the majority of his permanent workforce leave around 15 December and the first Monday of the |

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| | | subsequent year (as defined by the South African Forum Civil Engineering Contractors). |
| 5.3.1 | Commencement of the Works | <p>The documentation required before commencement with the Works execution are:</p> <ul style="list-style-type: none"> • Approved Health and Safety Plan in terms of the Occupational Health and Safety Act 85 of 1993: Construction Regulations (refer to Clause 4.3.1) • Initial Program (refer to Clause 5.6) • Security (refer to Clause 6.2) • Insurance (refer to Clause 8.6) • Contractor's cash flow projection • Airside safety Plan – see volume 5 • Construction Equipment list • Key Personnel appointments |
| 5.3.2 | Unaccepted documentation | <p>The Contractor shall submit the documentation referred to in Clause 5.3.1 within fourteen (14) days from the Commencement Date.</p> <p>In addition, the Contractor shall submit all documentation required for statutory compliance, including but not limited to documentation necessary for the submission of the Construction Work Permit application in terms of the Construction Regulations, at least thirty (30) days prior to the intended Commencement of the Works, or such earlier date as may be required to</p> |

| | | |
|-------|----------------------|---|
| | | <p>enable the Employer to make timely submissions to the relevant authorities.</p> <p>Documentation submitted shall be subject to review and acceptance by the Employer's Agent. Should any documentation be found to be incomplete or unacceptable, the Contractor shall resubmit such documentation within a time period instructed by the Employer's Agent.</p> <p>No instruction to commence the Works in terms of Clause 5.3.1 shall be issued unless all required documentation has been submitted and accepted, and all statutory approvals, including the Construction Work Permit where applicable, have been obtained.</p> <p>The Contractor shall not be entitled to any extension of time or additional compensation arising solely from its failure to provide complete and timely documentation in accordance with this Clause.</p> |
| 5.4.1 | Access not exclusive | The access and possession of Site shall not be exclusive to the Contractor but as set out in the Site Information. |
| 5.4.2 | Site | |
| 5.8.1 | Non-working times | <p>The non-working days are non-working nights as designated in clause A1.2.7.1 of Part C3.6.1.</p> <p>Refer to the working hours as detailed in the Manual of Procedures for Working Airside.</p> |

| | | |
|--------|----------------------|---|
| 5.13.1 | Penalty for delay | <p>(i) Penalty for failing to complete the works is R60,000.00 per calendar day.</p> <p>(ii) The penalty for failing to meet the project opening requirement is R60,000 per occurrence and also any additional expenses as may result from the delay in opening the facility.</p> |
| 5.14.1 | Practical Completion | <p>The requirements for achieving Practical Completion of the Works are as follows:</p> <ul style="list-style-type: none"> • The Works comply fully with the approved design, specifications, and all Employer's requirements; • All statutory approvals, aviation authority requirements, and applicable regulations have been obtained where required for safe occupation and operation; • All systems essential to airport operations, including but not limited to mechanical and fire detection are fully tested, commissioned, and operational; • The Works are safe for use in an operational airport environment and do not present any risk to passengers, staff, aircraft operations, or the public; • No outstanding defects or incomplete works exist that may impact safety, functionality, security, or operational continuity; • All required training, handover documentation, as-built drawings, warranties, and operation and |

| | | |
|-----------------|-------------------------------|--|
| | | <p>maintenance manuals have been submitted in a form acceptable to the Employer's Agent;</p> <ul style="list-style-type: none"> • All snagging items identified by the Employer's Agent have been recorded and do not prevent safe and full use of the Works. |
| 5.16.3 | Latent defects period | 10 years after the issue of the Final Approval Certificate in terms of the Contract |
| 6.2.1 | Security | <ul style="list-style-type: none"> • Performance Bond • Parent Company Guarantee • Retention Guarantee • Cash Retention • Advance Payment guarantee |
| 6.5.1.2.3 | Basis of payment for dayworks | The percentage allowances to cover the relevant charges is 10%. |
| 6.8.2 and 6.8.3 | Contract Price Adjustment | <p>The Contract Price shall be subject to contract price adjustment in accordance with Clause 6.8 of the General Conditions of Contract.</p> <p>If special materials are specified in the Contract then the provisions of Clause 6.8.3 of the General Conditions of Contract shall apply to such special materials.</p> <p>Where applicable, in terms of the foregoing, the value of the certificates issued shall be adjusted in accordance with the Contract</p> |

| | | |
|----------|---|--|
| | | <p>Price Adjustment Schedule with the following values:</p> <p>The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:</p> <p style="text-align: center;">x = 0.15</p> <p style="text-align: center;">a = 0.15</p> <p style="text-align: center;">b = 0.35</p> <p style="text-align: center;">c = 0.40</p> <p style="text-align: center;">d = 0.10</p> <p>"L" is Consumer Price Index for the area of Bloemfontein.</p> <p>"F" is the Production Price Index for Diesel oil.</p> <p>The base date for the purposes of calculating Contract Price Adjustment (CPA) shall be the month prior to the tender closing date.</p> <p>NOTE: The contract price adjustment factor shall be calculated to six decimal places.</p> |
| 6.10.1.5 | Percentage of advance on materials not yet built into the Permanent Works | <p>The percentage advance on materials not yet built into the Permanent Works is 80% upon proof of ownership.</p> <p>Payment to the Contractor for any materials on site shall only be authorized after proof of ownership by the Contractor has been lodged with the Employer's Agent in the form</p> |

| | | of receipted invoices or other acceptable documents. | | | | | | |
|--------------------|---|---|----------|----------------------------------|----------------------------------|--------------------|---------|---|
| 6.10.3 | Retention money | Notwithstanding the provision of a performance guarantee in terms of Clause 6.2.1, interim payments to the Contractors shall be subject to a retention by the Employer of an amount of 5% of the said amounts due to the Contractor. The limit of retention money is 5% of the Contract Price, including allowances for contingencies and Contract Price Adjustment. guarantee in lieu of retention is permitted. | | | | | | |
| 8.3.1.4 | Excepted risks | | | | | | | |
| 8.6. | Insurance clause | See GCC special clause 8.6.1 and 8.6.2 above. Should there be any discrepancy between the provisions of Clause 8.1 and special clauses 8.6.1 and 8.6.2, the provisions of 8.6.1 and 8.6.2 shall prevail in relation to any such matter. | | | | | | |
| 8.6.1.1.2 | Value of plant and materials supplied by the Employer to be included in the insurance sum | NIL | | | | | | |
| 8.6.1.3 | Limit of indemnity for liability insurance | Refer to 8.6 above. | | | | | | |
| 10.5.1 | Adjudication | The Adjudicator nominating body is the current Chairman of Johannesburg Advocate's Bar Council. | | | | | | |
| 10.5.3 | Adjudication Board Members | <table border="1"> <thead> <tr> <th>Name</th> <th>Location</th> <th>Contact details (phone & e mail)</th> </tr> </thead> <tbody> <tr> <td>Adv. Ghandi Badela</td> <td>Gauteng</td> <td>+27 11 282 3700 ghandi@badela.co.za</td> </tr> </tbody> </table> | Name | Location | Contact details (phone & e mail) | Adv. Ghandi Badela | Gauteng | +27 11 282 3700 ghandi@badela.co.za |
| | | Name | Location | Contact details (phone & e mail) | | | | |
| Adv. Ghandi Badela | Gauteng | +27 11 282 3700 ghandi@badela.co.za | | | | | | |
| | | | | | | | | |

| | | | | |
|--------|--------------------------|---|----------|---|
| | | Mr. Errol Tate Pr. Eng. | Durban | +27 11 262 4001 Errol.tate@mweb.co.za |
| | | Adv. Saleem Ebrahim | Gauteng | +27 11 535-1800 salimebrahim@mwcb.co.za |
| | | Mr. Sebe Msutwana Pr. Eng. | Gauteng | +27 11 442 8555 sebe@civilprojects.co.za |
| | | Mr. Sam Amod | Gauteng | sam@samamod.com |
| | | Adv. Sias Ryneke SC | Gauteng | 083 653 2281 ryneke@duma.nokwe.co.za |
| | | Mr. Emeka Ogbugo (Quantity Surveyor) | Pretoria | +27 12 349 2027 emeka@gosiame.co.za |
| 10.7.1 | Reference to arbitration | <p>The arbitration procedure is set out in The Rules for the Conduct of Arbitrations 2013 Edition, 7th Edition, published by The Association of Arbitrators, (Southern Africa).</p> <p>The place where arbitration is to be held is Bloemfontein, South Africa.</p> <p>If the arbitration procedure does not state who selects an arbitrator, the Arbitrator nominating body is the Chairman of the Johannesburg Advocates Bar Council.</p> | | |

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:
.....
.....

Postal Address:
.....
.....

Telephone:
.....
.....

Fax:
.....

Email:

Clause 6.2.1 The security to be provided by the Contractor shall be one of the following:

| TYPE OF SECURITY | CONTRACTOR'S CHOICE. INDICATE "YES" OR "NO" |
|--|---|
| Performance Guarantee of 10% of the Contract Sum (excluding VAT) | |
| Cash Retention (10%) | |

Clause 6.8.3: Variation in the cost of special materials

| SPECIAL MATERIALS | | |
|---|--|----------------------------------|
| <p>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 Subclause 6.8.3 of the General Conditions of Contract shall apply to such special materials. The rates and prices for the special materials shall be furnished by the tenderer, which rates and prices shall not include VAT but shall include all other obligatory taxes and levies.</p> | | |
| Special Material | Source / Supplier | Rate or Price for the base month |
| Bitumen | | |
| Base Bitumen (type and net content) | Confirmation letter on the suppliers' letterhead with company registration and address details | / ton * |
| 30/50 Pen Bitumen (net bitumen content) | Ditto | / ton * |
| 50/70 Pen Bitumen (net bitumen content) | Ditto | / ton * |
| 70/100 Pen Bitumen (net bitumen content) | Ditto | / ton * |
| <p>* Indicate whether the material will be delivered in bulk or in containers. This is to be the Oil Companies Industry Rate. (excluding VAT and discount, but including all other obligatory taxes and levies) When called upon to do so, the tenderer shall substantiate the above rates or prices with acceptable documentary evidence. No Special Materials are to be submitted unless clarified with Employer's Agent (See F.2.11 & F.2.12) Note: Fuel not to be include unless submitted as an alternative tender Change of supplier may be permitted but only upon application to the Engineer with the appropriate letters of supply in compliance to the relevant requirement note in the above table.</p> | | |

SIGNED ON BEHALF OF TENDERER:

AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

C1.3: PERFORMANCE GUARANTEE (PRO FORMA)

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

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:

Physical address:

"Employer" means:

"Contractor "means:

"Employer's Agent" means:

"Works" means:

"Site" means:

"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.

"Contract Sum" means: The accepted amount inclusive of tax of R

Amount in words:

"Guaranteed Sum" means: The maximum aggregate amount of R

Amount in words:

Type of Performance Guarantee: *Fixed*

"Expiry Date" means:

CONTRACT DETAILS

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

1. VARIABLE PERFORMANCE GUARANTEE

- 1.1. Where a Variable Performance Guarantee has been selected, the Guarantor's liability shall be limited during the following periods to diminishing amounts of the Guaranteed Sum as follows:
 - 1.1.1. From and including the date of signing the Performance Guarantee up to and including the date of the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum: R.....
(Amount in Words.....)
 - 1.1.2. From the day following the date of the said interim payment certificate up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, whichever occurs first:
R.....
(Amount in Words.....)
- 1.2. The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum, has been issued and the date on which the Certificate of Completion of the Works has been issued.

2. FIXED PERFORMANCE GUARANTEE

- 2.1. Where a Fixed Performance Guarantee has been selected, the Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 2.2. The Guarantor's period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, or the date of payment in full of the Guaranteed Sum, whichever occurs first.
- 2.3. The Employer's Agent and/or Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion has been issued.

3. CONDITIONS APPLICABLE TO VARIABLE AND FIXED PERFORMANCE GUARANTEES

- 3.1. The Guarantor hereby acknowledges that:
 - 3.1.1. 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;
 - 3.1.2. Its obligation under this Performance Guarantee is restricted to the payment of money.
- 3.2. Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 3.2.1 to 3.2.3:

- 3.2.1. A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Engineer 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 3.2.2;
- 3.2.2. 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 3.2.1 and the sum certified has still not been paid;
- 3.2.3. A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 3.2.
- 3.3. Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, 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:
 - 3.3.1. The Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 3.3; or
 - 3.3.2. 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 3.3; and
 - 3.3.3. 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.
- 3.4. 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 1.1 or 2.1.
- 3.5. Where the Guarantor has made payment in terms of 3.3, 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.
- 3.6. Payment by the Guarantor in terms of 3.2 or 3.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 3.7. Payment by the Guarantor in terms of 3.3 will only be made against the return of the original Performance Guarantee by the Employer.
- 3.8. 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 Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 3.9. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 3.10. This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.1.2 or 2.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 3.11. This Performance Guarantee, with the required demand notices in terms of 3.2 or 3.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 3.12. 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):

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TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

C1.4: RETENTION MONEY GUARANTEE (PRO FORMA)

ISSUED TO *[INSERT NAME OF EMPLOYER]* (hereinafter called "the Employer")

ON BEHALF OF *[INSERT NAME OF CONTRACTOR]* (hereinafter called "the Contractor")

in connection with TENDER NO: (hereinafter called "the Contract").

WHEREAS the Employer and the Contractor have agreed that the Contractor may provide a guarantee in lieu of the whole or a portion of the retention moneys provided for under the Contract;

NOW THEREFORE we, the undersigned, undertake, in accordance with the following provisions, to pay to the Employer such amounts as the Employer may, from time to time, demand from us.

1. Each demand by the Employer shall be in writing, signed by the Employer and delivered to us at *[INSERT GUARANTOR'S FULL STREET ADDRESS]* or such other address in *[INSERT NAME OF COUNTRY]* as we shall in writing notify to the Employer, and shall be accompanied by a certificate complying with Clause 2, signed by the Employer's Agent in office as such in terms of the Contract.
2. The Employer's Agent's certificate referred to in Clause 1 shall certify that:
 - (a) he is the Employer's Agent in office as such in terms of the Contract,
 - (b) the Contractor is in breach of his obligations under the Contract, and
 - (c) the amount demanded, which amount the certificate shall specify, does not exceed
 - (i) the amount of retention moneys which, but for this guarantee, would have been retained by the Employer in terms of the Contract at the date of the certificate, less the aggregate of the amounts of retention money actually retained by the Employer and the amounts previously paid by us to the Employer in terms hereof,
 - (ii) a genuine estimate of the cost to the Employer of having the breach referred to in paragraph (b) remedied less the aggregate of any amounts withheld by the Employer from payments due to the Contractor in terms of the Contract by reason of the breach referred to, and any amount of retention money actually held by the Employer save to the extent that the same had been deducted from any previous demand in terms hereof;

3. We shall within days after our receipt of a demand complying with the provisions in Clauses 1 and 2 make payment to the Employer of the amount demanded at *[INSERT EMPLOYER'S STREET ADDRESS]* or at such other address in *[INSERT EMPLOYER'S COUNTRY]* as the Employer shall in writing notify to us.
4. Subject to compliance with the provisions hereof, our liability to make the payments herein referred to shall be unconditional and shall not be affected or diminished by any disputes, claims or counterclaims between the Employer and the Contractor.
5. Our aggregate liability under this guarantee is limited to*[INSERT AMOUNT OF GUARANTEE IN WORDS]* (R..... *[INSERT AMOUNT OF GUARANTEE IN FIGURES]*).
6. This guarantee shall expire on the date on which the last of the retention moneys, which but for this guarantee would have been retained by the Employer, becomes payable to the Contractor.
7. This guarantee is not transferable and must be produced for endorsement if any part payment is made and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 6, whichever is the earlier.

Signed in the presence of the subscribing witnesses:

Atfor and on behalf of

.....

on this the day of 20.....

SIGNATURE :

CAPACITY :

ADDRESS :

:

:

AS WITNESSES : 1

2

AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

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CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

C1.5: ADJUDICATOR'S AGREEMENT (Pro Forma Form)

This agreement is made on the day of between:

..... [name of company/organisation]

of

..... [address] and

..... [name of company/organisation]

of

..... [address]

(the Parties) and

..... [name]

of

..... [address]

(the Adjudicator).

Disputes or differences may arise/have arisen* between the Parties under a Contract dated

..... and known as

.....

and these disputes or differences shall be/have been* referred to adjudication in accordance with the CIDB Adjudication Procedure [hereinafter called "the Procedure"], and the Adjudicator may be or has been requested to act.

**Delete as necessary.*

IT IS NOW AGREED as follows:

1. The rights and obligations of the Adjudicator and the Parties shall be as set out in the Procedure.
2. The Adjudicator hereby accepts the appointment and agrees to conduct the adjudication in accordance with the Procedure.
3. The Parties bind themselves jointly and severally to pay the Adjudicator's fees and expenses in accordance with the Procedure as set out in the Contract Data.
4. The Parties and the Adjudicator shall at all times maintain the confidentiality of the adjudication and shall endeavour to ensure that anyone acting on their behalf or through them will do likewise, save with the consent of the other Parties which consent shall not be unreasonably refused.
5. The Adjudicator shall inform the Parties if he intends to destroy the documents which have been sent to him in relation to the adjudication and he shall retain documents for a further period at the request of either Party.

| | | |
|---|--|------------------------------------|
| SIGNED BY: _____ | SIGNED BY _____ | SIGNED BY _____ |
| Name: _____ | Name: _____ | Name: _____ |
| who warrants that he/she is duly authorised to sign for and on behalf of the first Party in the presence of | who warrants that he/she is duly authorised to sign for on behalf of the second Party in the presence of | the Adjudicator in the presence of |
| Witness: _____ | Witness: _____ | Witness: _____ |
| Name: _____ | Name: _____ | Name: _____ |
| Address: _____ _____ _____ | Address: _____ _____ _____ | Address: _____ _____ _____ |
| Date: _____ | Date: _____ | Date: _____ |

Contract Data

1. The Adjudicator shall be paid at the hourly rate of R..... in respect of all time spent upon, or in connection with, the adjudication including time spent travelling.
2. The Adjudicator shall be reimbursed in respect of all disbursements properly made including, but not restricted to:
 - (a) Printing, reproduction and purchase of documents, drawings, maps, records and photographs
 - (b) Telegrams, telex, faxes and telephone calls
 - (c) Postage and similar delivery charges
 - (d) Travelling, hotel expenses and other similar disbursements
 - (e) Room charges
 - (f) Charges for legal or technical advice obtained in accordance with the Procedure.
3. The Adjudicator shall be paid an appointment fee of R..... This fee shall become payable in equal amounts by each Party within 14 days of the appointment of the Adjudicator, subject to an invoice being provided. This fee will be deducted from the final statement of any sums which shall become payable under item 1 and/or item 2 of the Contract Data. If the final statement is less than the appointment fee the balance shall be refunded to the Parties.
4. The Adjudicator is/is not* currently registered for VAT.

**Delete as necessary*

5. Where the Adjudicator is registered for VAT it shall be charged additionally in accordance with the rates current at the date of invoice.
6. All payments, other than the appointment fee (item 3) shall become due 7 days after receipt of invoice, thereafter interest shall be payable at 5% per annum above the Reserve Bank base rate for every day the amount remains outstanding.

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C1.6: AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993)

THIS AGREEMENT made at
on this the day of in the year
between [hereinafter called "the Employer"] of the one
part, herein represented by
in his capacity as
and
[hereinafter called "the Mandatary"] of the other part, herein represented by
.....
in his capacity as

WHEREAS the Employer is desirous that certain works be constructed, viz CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS and has accepted a Tender by the Mandatary for the construction, completion and maintenance of such Works and whereas the Employer and the Mandatary have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatary with the provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Mandatary shall execute the work in accordance with the Contract Documents pertaining to this Contract.
2. This Agreement shall hold good from its Commencement Date, which shall be the date of a written notice from the Employer or Employer's Agent requiring him to commence the execution of the Works, to either
 - (a) the date of the Final Approval Certificate issued in terms of Clause 5.16.1 of the General Conditions of Contract [hereinafter referred to as "the GCC"], or
 - (b) the date of termination of the Contract in terms of Clauses 9.1, 9.2 or 9.3.
3. The Mandatary declares himself to be conversant with the following:

- (a) All the requirements, regulations and standards of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following sections of The Act:
 - (i) Section 8 : General duties of employers to their employees;
 - (ii) Section 9 : General duties of employers and self-employed persons to persons other than employees;
 - (iii) Section 37 : Acts or omissions by employees or mandataries, and
 - (iv) Subsection 37(2) relating to the purpose and meaning of this Agreement.
 - (b) The procedures and safety rules of the Employer as pertaining to the Mandatary and to all his subcontractors.
4. In addition to the requirements of Clause 8.4 of the GCC and all relevant requirements of the Contract, the Mandatary agrees to execute all the Works forming part of this Contract and to operate and utilise all machinery, plant and equipment in accordance with the Act.
5. The Mandatary is responsible for the compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.
6. The Mandatary warrants that all his and his subcontractors' workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act, 1993 which cover shall remain in force whilst any such workmen are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.
7. The Mandatary undertakes to ensure that he and/or subcontractors and/or their respective employers will at all times comply with the following conditions:
- (a) The Mandatary shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Mandatary shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Mandatary obtains such approval and delegates any duty in terms of Section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
 - (b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Mandatary to the Department of Labour as well as to the Employer. The Employer will further be provided with copies of all written documentation relating to any incident.
 - (c) The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of Section 32 of the Occupational Health and Safety Act into any incident involving the Mandatary and/or his employees and/or his subcontractors.

CERTIFICATE OF AUTHORITY FOR SIGNATORY TO AGREEMENT IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993)

The signatory for the company that is the Contractor in terms of the above-mentioned Contract and the Mandatary in terms of the above-mentioned Act shall confirm his or her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolution of the Board of Directors.

An example is given below:

"By resolution of the Board of Directors passed at a meeting held on 20.....,
Mr/Ms whose signature
appears below, has been duly authorised to sign the AGREEMENT in terms of THE OCCUPATIONAL
HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993) on behalf of
.....

SIGNED ON BEHALF OF THE COMPANY :

IN HIS/HER CAPACITY AS :

DATE :

SIGNATURE OF SIGNATORY :

WITNESS: 1. 2.

NAME (IN CAPITALS): 1. 2.

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C1.7: AVAILABILITY OF KEY PERSONS

I/W certify on the behalf of _____ (Print Name of Tender)

in line with the technical evaluation section of the tender data, we affirm our commitment to maintain the following key personnel throughout the duration of the project:

(a) Construction Manager (Wet Services)

The construction manager must:

1. have an active professional registration with Engineering Council of South Africa as Professional Engineer (Pr Eng) or Professional Technologist (Pr Tech) or
2. have an active professional registration with the South African Council for the Project and Construction Management Profession (SACMCMP) as a Professional Construction Project Manager (Pr CPM) or a Professional Construction Manager (Pr CM)
3. have completed a maximum of two relevant projects with a minimum construction value of R30million (Ex VAT).
4. This information will be verified by the client prior to the approval of the key personnel.
5. For the purposes of evaluation, relevant experience shall be defined as follows:

Wet Services

- 5.1. Large diameter water pipeline installation or/and
- 5.2. Water reticulation projects – commercial buildings, hospital, hotels, residential estates or/and
- 5.3. Water pump station project
- 5.4. All listed projects **must** be completed to be considered for this evaluation
- 5.5. Listed Projects must have a minimum construction project value of R30 000 000,00 including VAT each.

(b) Construction Manager (Roads)

The construction manager must:

1. have an active professional registration with Engineering Council of South Africa as Professional Engineer (Pr Eng) or Professional Technologist (Pr Tech) or
2. have an active professional registration with the South African Council for the Project and Construction Management Profession (SACMCMP) as a Professional Construction Project Manager (Pr CPM) or a Professional Construction Manager (Pr CM)
3. have completed a maximum of two relevant projects with a minimum construction value of R30million (Ex VAT).
4. This information will be verified by the client prior to the approval of the key personnel.
5. For the purposes of evaluation, relevant experience shall be defined as follows:

Service Roads

- 5.1. Asphalt Road Construction Projects or/and
- 5.2. Rehabilitation of asphalt roads or/and
- 5.3. Special Maintenance Projects or/and
- 5.4. All listed projects must be completed to be considered for this evaluation
- 5.5. Listed Projects must have a minimum construction project value of R30 000 000,00 including VAT each

Construction Health and Safety Officer

The construction health and safety officer must:

1. have an active professional registration with the South African Council for the Project and Construction Management Profession (SACMCMP) as a Construction Health and Safety Officer (CHSO) and as a Construction Health and Safety Manager (CHSM).
2. have completed a Maximum of two **relevant** projects with a minimum construction value of R30 million (Ex VAT).
3. This information will be verified by the client prior to the approval of the key personnel.
4. Will solely focused on this project and be based full time on site for the duration of construction works.
5. For the purposes of evaluation, relevant experience shall be defined as a built-environment construction project with a value of R30,000,000.00 (Inc VAT)

Signed Date _____

Name Position _____

Tender



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C2: Pricing Data

C2.1 Pricing Instructions..... C2-2

C2.2 Bills of Quantity..... C2-5

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C2.1: PRICING INSTRUCTIONS

1. Measurement and payment shall be in accordance with the relevant provisions of the COTO Standard Specifications for Road and Bridge Works for South African Road Authorities (2020 edition) as amended in the Scope of Works.
2. The units of measurement described in these Bills of Quantities are metric units. Abbreviations used in these Bills of Quantities are as follows:

| | | |
|----------------------|---|-----------------------|
| % | = | percent |
| h | = | hour |
| Ha | = | hectare |
| Kg | = | kilogram |
| Kl | = | kilolitre |
| km | = | kilometre |
| km-pass | = | kilometre-pass |
| kPa | = | kilopascal |
| kW | = | kilowatt |
| l | = | litre |
| ls | = | Lump sum |
| m | = | metre |
| mm | = | millimetre |
| m ² | = | square metre |
| m ² -pass | = | square metre-pass |
| m ³ | = | cubic metre |
| m ³ -km | = | cubic metre-kilometre |
| MN | = | meganewton |
| MN.m | = | meganewton-metre |
| MPa | = | megapascal |
| No. | = | number |
| Prov sum | = | Provisional sum |
| PC sum | = | Prime Cost sum |
| R/only | = | Rate only |
| sum | = | lump sum |
| t | = | ton (1 000 kg) |
| W/day | = | Work day |

3. For the purpose of these Bills of Quantities, the following words shall have the meanings hereby assigned to them:
- Unit: The unit of measurement for each item of work as defined in the The COTO Standard Specifications for Road and Bridge Works for South African Road Authorities (2020 edition).
- Quantity: The number of units of work for each item.
- Rate: The payment per unit of work for which the Service Provider tenders to do the work.
- Amount: The product of the quantity and the agreed rate for an item.
- Lump sum: An agreed amount for an item, the extent of which is described in the Bills of Quantities but the quantity of work of which is not measured in any units.
4. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
5. It will be assumed that prices included in the bills of quantities are 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 www.stanza.org.za or www.sabs.co.za, or www.iso.org for information on standards)
6. The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out. The rates are to be clearly referenced to the relevant pay item numbers, with each rate broken down into its labour, materials, plant, fuel, overhead charges and profit components.
7. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items
8. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
9. The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in these Bills of Quantities.
10. Reasonable compensation will be received where no pay item appears in the Bills of Quantities in respect of work required in terms of the Contract and which is not covered in any other pay item.
11. The short descriptions of the items of payment given in these Bills of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
12. The item numbers appearing in the Bills of Quantities refer to the corresponding item numbers in the The COTO Standard Specifications for Road and Bridge Works for South African Road Authorities (2020 edition). Where a standard COTO pay item is amended or a new pay item added, the item number is preceded by the letter "PC" in the Pricing Schedule.
13. The contractor shall determine the contract skills participation goals, expressed in Rand, which shall not be less than the contract amount multiplied by a percentage factor given in Table 2 in the CIDB

Standard for developing Skills through Infrastructure Contracts for the applicable class of construction works. This is indicated by the percentage factor in the Final Tender Summary section. Minimum Contract Skills Development Goal (CSDG) sum = Civil Engineering CE (0.25%) x Subtotal of the tender amount



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C2.2: BILL OF QUANTITIES

C2.2.1 Schedule A: TENDER NO. BFIA8202/2026/RFP.....C2-6

C2.2.2 Summary of Schedule of Quantities C2-28

C2.2.1 Schedule A: TENDER NO. BFIA8202/2026/RFP

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THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER
INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

SECTION 1:
PRELIMINARIES, ROADS AND STORMWATER

| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMT |
|--|---|-------------------------------|--|--------------|--------------|
| ACSA - BFIA 8202/2026 | | | | | |
| FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS | | | GENERAL REQUIREMENTS AND PROVISIONS AND | | |
| C1.2.1 | Environmental Management | | | | |
| C1.2.1.1 | Monitoring of compliance with and reporting on the EMP | month | 12 | | |
| C1.2.1.2 | Dedicated environmental officer | month | 12 | | |
| C1.2.2 | Programming and Reporting | | | | |
| C1.2.2.1 | Submission of a Scheme 1 Programme | lump sum | 1 | | |
| C1.2.2.2 | Reviewing and updating a Scheme 1 Programme | month | 12 | | |
| C1.2.2.6 | Preparation and submission of all information and reports specified in the Contract Documentation | month | 12 | | |
| C1.2.3 | Routine road maintenance of existing public roads within the Site of the Works or other public roads outside the Site of the Works which are used as detours | | | | |
| C1.2.3.1 | Grass cutting | hectare (ha) | 6 | | |
| C1.2.3.2 | Drain cleaning | kilometre (km) | 1.5 | | |
| C1.2.3.3 | Cleaning out culverts | cubic metre (m ³) | 755 | | |
| C1.2.3.4 | Collection of rubbish / litter | kilometre (km) | 2 | | |
| C1.2.3.10 | Watering of temporary gravel deviations and existing roads used as detours | kilolitre (kl) | 50 | | |
| C1.2.3.11 | Other road maintenance work ordered by the Engineer | provisional sum | 1 | R 100 000.00 | R 100 000.00 |
| C1.2.3.12 | Handling cost, profit and all other charges in respect of item C1.2.3.11 | percentage (%) | R 100 000.00 | | |
| C1.2.4 | Stakeholder liaison | month | 12 | | |
| C1.2.5 | Safety | | | | |
| C1.2.5.1 | Health and safety plan | lump sum | 1 | | |
| C1.2.5.2 | Implementation of health and safety plan | month | 12 | | |
| PC1.2.5.3 | Full-time safety officer | month | 12 | | |
| PC1.2.5.4 | Submission of the Health and Safety File | lump sum | 1 | | |
| C1.2.6 | Work adjacent to properties | | | | |
| C1.2.6.1 | Survey of adjacent properties | no. | 12 | | |
| C1.2.6.2 | Preventive and/or mitigation measures | provisional sum | 1 | R 100 000.00 | R 100 000.00 |
| C1.2.6.3 | Handling cost, profit and all other charges in respe | % | 100 000.00 | | |
| C1.2.8 | Dayworks | | | | |
| C1.2.8.1 | Personnel | | | | |
| | (a) Unskilled labourer | hour (h) | 80 | | Rate Only |
| | (b) Semi-skilled labourer | hour (h) | 80 | | Rate Only |
| | (c) Skilled labourer | hour (h) | 80 | | Rate Only |
| | (d) Gang leader | hour (h) | 80 | | Rate Only |
| | (e) Foreman | hour (h) | 80 | | Rate Only |
| | (f) Skilled artisan | hour (h) | 80 | | Rate Only |
| C1.2.8.2 | Construction equipment | | | | |
| | (a) Track Excavator, (CAT 235 or equivalent) | hour (h) | 20 | | Rate Only |
| | (b) Vibratory roller (Bomag 212 or equivalent) | hour (h) | 20 | | Rate Only |
| | (c) Pedestrian Roller (Bomag BW90 or equivalent) | hour (h) | 20 | | Rate Only |
| | (d) Water truck (5000 litres) | hour (h) | 20 | | Rate Only |
| | (e) Backhoe TLB type (CAT 428 or equivalent) | hour (h) | 20 | | Rate Only |
| | (f) Dewatering pump including generators and accessories (50mm pump, 600 litres per minute) | hour (h) | 20 | | Rate Only |
| | (g) Safety vehicle for premarking purposes | hour (h) | 20 | | Rate Only |
| | (h) Tipper truck, 10.0m ³ | hour (h) | 20 | | Rate Only |
| | (i) Tipper truck, 6.0m ³ | hour (h) | 20 | | Rate Only |
| | (j) Compressor (air) including hoses and tools (7m ³ /minute mass approximately 150cpm) | hour (h) | 20 | | Rate Only |
| C1.2.8.3 | Vehicles | | | | |
| | (a) Light delivery vehicle | kilometre (km) | 250 | | Rate Only |
| | (b) Flatbed truck | kilometre (km) | 250 | | Rate Only |
| | (c) Dump truck | kilometre (km) | 250 | | Rate Only |
| C1.2.8.4 | Materials | | | | |
| | (a) Procurement of materials | provisional sum | 1 | R 200 000.00 | R 200 000.00 |
| | (b) Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a) | percentage (%) | R 200 000.00 | | |
| C1.2.9 | Disposal of non-useable assets | | | | |
| C1.2.9.2 | Disposal of non-useable assets not identified at time of tender | provisional sum | 1 | R 25 000.00 | R 25 000.00 |
| C1.2.9.3 | Handling cost, profit and all other charges in respect of item C1.2.9.2 | percentage (%) | R 25 000.00 | | |
| PC1.2.10 | Dispute Adjudication Board (DAB) | | | | |
| C1.2.10.1 | Employer's contribution to DAB (50%) | prime cost (PC) sum | 1 | R 350 000.00 | R 350 000.00 |
| PC1.2.11 | Inductions and Permits | | | | |
| C1.2.11.1 | Air side induction courses and permits | lump sum | 1 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | R |

| ACSA - BFIA 8202/2026 | | CONTRACTOR'S | | | | |
|---|-----------|--|--------------------------------|-----|--------------------|----------|
| C1.3 FOR: CONTRACTOR APPOINTMENT FOR THE | | CONSTRUCTION OF UNDERGROUND MAIN WATER LINE | | | SITE ESTABLISHMENT | |
| AND REHABILITATION OF SERVICE ROADS AT BRAM | | FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 | | | OBLIGATIONS | |
| MONTHS | | THE CONTRACTOR'S GENERAL OBLIGATIONS | | | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| PC1.3.1 | | The Contractor's general obligations | | | | |
| | C1.3.1.1 | Fixed obligations | lump sum | 1 | | |
| | C1.3.1.2 | Value-related obligations | lump sum | 1 | | |
| | PC1.3.1.3 | Time-related obligations | | | | |
| | (a) | Mobilisation period | month | 2 | | |
| | (b) | Execution of the works | month | 10 | | |
| | PC1.3.1.4 | Suspension Cost | | | | |
| | (a) | De-establishment | No | 1 | | |
| | (b) | Re-establishment | No | 1 | | |
| | (c) | Suspension period | month | 1 | | |
| C1.3.2 | | Contract sign boards | square metre (m ²) | 10 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

| ACSA - BFIA 8202/2026 | | | | | | |
|------------------------|-----------|---|-----------------------------|-----|------|-----|
| C1.4 | | FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS | FACILITIES FOR THE ENGINEER | | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| C1.4.1 | | Site accommodation | | | | |
| | C1.4.1.1 | Offices and conference room | m ² | 80 | | |
| | C1.4.1.3 | Open concrete working floors and verandas | m ² | 40 | | |
| | C1.4.1.4 | Roofs over open concrete working floors and verandas | m ² | 40 | | |
| | C1.4.1.5 | Store rooms inside the laboratory | m ² | 20 | | |
| | C1.4.1.6 | Car ports | No | 2 | | |
| | C1.4.1.7 | Ablution unit (<i>equipped as specified</i>) | No | 2 | | |
| | C1.4.1.8 | Change room with a shower | No | 2 | | |
| | C1.4.1.9 | Kitchen unit (<i>complete with stove, basin, concrete working table, shelving, sink and fuel (where applicable)</i>) | No | 1 | | |
| C1.4.2 | | Items measured by area | | | | |
| | C1.4.2.1 | Shelving as specified, complete with brackets | m ² | 6 | | |
| | C1.4.2.2 | Work benches with a concrete slab top | m ² | 10 | | |
| | C1.4.2.3 | Work-benches with a wooden top | m ² | 10 | | |
| | C1.4.2.4 | Constant-temperature baths of concrete and/or plastered brick | m ² | 6 | | |
| | C1.4.2.5 | Concrete footings and pedestals for laboratory equipment | m ² | 6 | | |
| | C1.4.2.6 | Roller blinds, opaque type | m ² | 12 | | |
| | C1.4.2.7 | Venetian blinds | m ² | 12 | | |
| | C1.4.2.8 | Notice boards | m ² | 4 | | |
| | C1.4.2.9 | White boards | m ² | 4 | | |
| C1.4.3 | | Items measured by No | | | | |
| | C1.4.3.1 | Office swivel chair | No | 2 | | |
| | C1.4.3.2 | Office chair | No | 16 | | |
| | C1.4.3.3 | Draughtsman's stool | No | 1 | | |
| | C1.4.3.5 | Office desk with 3 drawers (<i>at least one lockable drawer</i>) | No | 4 | | |
| | C1.4.3.6 | Typist desk (<i>L-shaped</i>) | No | 1 | | |
| | C1.4.3.7 | Drawing table | No | 2 | | |
| | C1.4.3.8 | Conference table | No | 1 | | |
| | C1.4.3.10 | Filing cabinet | No | 3 | | |
| | C1.4.3.11 | General purpose steel cabinet with shelves | No | 6 | | |
| | C1.4.3.12 | Wall mounted pivot plan filing system | No | 4 | | |
| | C1.4.3.13 | 220/250 volt power outlet plug point | No | 14 | | |
| | C1.4.3.14 | 400/231 volt 3-phase power outlet plug point | No | 4 | | |
| | C1.4.3.15 | Single 1500mm, 58 watt fluorescent tube ceiling light | No | 12 | | |
| | C1.4.3.16 | Single 1500mm, 22 watt LED tube ceiling light | No | 6 | | |
| | C1.4.3.17 | 11 watt compact fluorescent bulb ceiling light | No | 6 | | |
| | C1.4.3.18 | 7 watt LED bulb ceiling light | No | 5 | | |
| | C1.4.3.19 | Wash-hand basin | No | 3 | | |
| | C1.4.3.21 | Extractor fan | No | 3 | | |
| | C1.4.3.22 | Fume cupboard | No | 1 | | |
| | C1.4.3.23 | Fire extinguisher 9,0 kg, dry powder type | No | 8 | | |
| | C1.4.3.24 | Air-conditioning unit | No | 8 | | |
| | C1.4.3.25 | Heater | No | 8 | | |
| | C1.4.3.26 | Concrete specimen curing bath | No | 1 | | |
| | C1.4.3.27 | Waste paper basket | No | 4 | | |
| | C1.4.3.28 | UPS / Voltage stabiliser | No | 4 | | |
| | C1.4.3.29 | A3 / A4 colour printer, copier, scanner | No | 1 | | |
| | C1.4.3.30 | A4 colour printer, copier, scanner | No | 1 | | |
| CARRIED FORWARD | | | | | | |

| C1.4 | | | FACILITIES FOR THE ENGINEER | | | |
|---|-----------|--|-----------------------------|------------|------------|-----------|
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| BROUGHT FORWARD | | | | | | |
| | C1.4.3.31 | Rain gauge | No | 1 | | |
| | C1.4.3.32 | Minimum/maximum atmospheric temperature gauge | No | 1 | | |
| | C1.4.3.33 | Digital thermometer | No | 2 | | |
| | C1.4.3.34 | Mobile outdoor weather station | No | 2 | | |
| | C1.4.3.35 | 3,0m aluminium straight edge complete with two measuring wedges | No | 1 | | |
| | C1.4.3.36 | Measuring wheel | No | 2 | | |
| | C1.4.3.37 | First aid kit | No | 2 | | |
| | C1.4.3.38 | Standpipe complete with 30m of 19mm dia. heavy duty hose pipe | No | 2 | | |
| C1.4.4 | | Prime cost items | | | | |
| | C1.4.4.5 | The provision of internet connectivity and WiFi data for Engineer's site staff | provisional sum | 1 | R20 000.00 | 20 000.00 |
| | C1.4.4.6 | Handling costs and profit in respect of item C1.4.4.5 | % | R20 000.00 | | |
| | C1.4.4.7 | The provision of paper and ink for a combination colour printer/copier/scanner | provisional sum | 1 | R40 000.00 | 40 000.00 |
| | C1.4.4.8 | Handling costs and profit in respect of item C1.4.4.7 | % | R40 000.00 | | |
| | C1.4.4.9 | The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connections, meters etc. | provisional sum | 1 | R25 000.00 | 25 000.00 |
| | C1.4.4.10 | Handling costs and profit in respect of item C1.4.4.9 | % | R25 000.00 | | |
| | C1.4.4.11 | The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connections, meters etc. | provisional sum | 1 | R25 000.00 | 25 000.00 |
| | C1.4.4.12 | Handling costs and profit in respect of item C1.4.4.11 | % | R25 000.00 | | |
| | C1.4.4.13 | Provision of a 440/231 volt three phase electricity generator if electricity from a power supply authority is not available on site | provisional sum | 1 | R25 000.00 | 25 000.00 |
| | C1.4.4.14 | Handling costs and profit in respect of item C1.4.4.13 | % | R25 000.00 | | |
| C1.4.5 | | Services at site offices, laboratories and site accommodation | | | | |
| | C1.4.5.1 | Fixed costs | lump sum | 1 | | |
| | C1.4.5.2 | Running costs | month | 10 | | |
| C1.4.6 | | Office staff | | | | |
| | C1.4.6.1 | Secretary / receptionist | month | 10 | | |
| | C1.4.6.2 | Technical assistant | month | 10 | | |
| C1.4.7 | | Site inspection transport | | | | |
| | C1.4.7.1 | Provision of a mini-bus for site inspection purposes | per day | 24 | | |
| | C1.4.7.2 | Travel on site | km | 480 | | |
| C1.4.8 | | Site security measures for the Engineer's facilities | | | | |
| | C1.4.8.1 | Supply and installation of all required security measures at the Engineer's site offices and laboratories | lump sum | 1 | | |
| | C1.4.8.2 | Provision of security guards / watchmen and an armed response service at the Engineer's site offices and laboratories | month | 12 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

C1.5

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

ACCOMMODATION OF TRAFFIC

| ITEM | | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|------------|--------------|--|-------------------------------|--------------|-------------|--------------|
| C1.5.1 | | | Accommodation of pedestrian and non-motorised traffic | | | | |
| | C1.5.1.1 | | Accommodation of pedestrian and non-motorised traffic | month | 12 | | |
| C1.5.2 | | | Accommodation of vehicular traffic | month | 12 | | |
| C1.5.3 | | | Liaison with traffic authorities | month | 12 | | |
| PC1.5.4 | | | Construction of temporary deviations | | | | |
| C4.3.15 | | | Stockpiling of road layer materials | | | | |
| | C4.3.15.4 | | Natural gravel material | cubic metre (m ³) | 1125 | | |
| | C5.1.1 | | Roadbed construction and compaction: | | | | |
| | | C5.1.1.2 | Compaction of in-situ material to 93% of MDD | cubic metre (m ³) | 1 125 | | |
| | C5.3.2 | | Construction of pavement layers | | | | |
| | | C5.3.2.1 (a) | Lower selected subgrade layer (150mm) compacted to 95% of MDD | cubic metre (m ³) | 1 125 | | |
| C1.5.5 | | | Maintenance of temporary deviations | | | | |
| | C1.5.5.1 | | Grass cutting | hectare (ha) | 1.5 | | |
| | C1.5.5.9 | | Grading of temporary deviations and existing roads used as detours | kilometre (km) | 1.5 | | |
| | C1.5.5.10 | | Watering of temporary deviations and existing roads used as detours | kilolitre (kℓ) | 300 | | |
| | C1.5.5.11 | | Other road maintenance work ordered by the Engineer | provisional sum | 1 | R100 000.00 | R 100 000.00 |
| | C1.5.5.12 | | Handling cost, profit and all other charges in respect of item C1.5.6.11 | percentage (%) | R 100 000.00 | | |
| C1.5.6 | | | Removal of temporary deviations | kilometre (km) | 1.5 | | |
| C1.5.7 | | | Temporary traffic control facilities | | | | |
| | C1.5.7.1 | | Delineators including mounting bases and ballast: | | | | |
| | | (a) | Single sided, reversible left or right (800mm x 200mm) | number (No.) | 100 | | |
| | | (b) | Double sided, reversible left or right (800mm x 200mm) | number (No.) | 500 | | |
| | C1.5.7.2 | | Traffic cones, minimum height 750mm | number (No.) | 200 | | |
| | C1.5.7.3 | | Flagmen | man-shift | 795 | | |
| | C1.5.7.5 | | Provision of illuminated traffic signs: | | | | |
| | | (a) | Sign mounted flashing amber lights (2 lights with the specified power supply) mounted on a backing board which is: | | | | |
| | | (i) | 900mm wide x 150mm high | number (No.) | 2 | | |
| | C1.5.7.6 | | Maintenance of illuminated traffic signs: | | | | |
| | | (a) | Sign mounted flashing amber lights (a pair of two lights mounted on a separate backing board) | month | 10 | | |
| | C1.5.7.8 | | Traffic control stations | month | 10 | | |
| | C1.5.7.9 | | Cleaning of traffic control facilities | month | 10 | | |
| C1.5.8 | | | Traffic safety officer | man-month | 10 | | |
| C1.5.11 | | | Provision of safety equipment for visitors | | | | |
| | C1.5.11.1 | | Provision of reflective safety vests for visitors | number (No.) | 6 | | |
| | C1.5.11.2 | | Provision of hard hats for visitors | number (No.) | 6 | | |
| C1.5.12 | | | Additional traffic accommodation facilities ordered by the Engineer: | | | | |
| | C1.5.12.1 | | Provision of additional traffic accommodation facilities | provisional sum | 1 | R100 000.00 | R 100 000.00 |
| | C1.5.12.2 | | Handling cost, profit and all other charges in respect of item C1.5.12.1 | percentage (%) | R 100 000.00 | | |
| | PC1.5.12.3 | | Portable stop/go signs | No | 4 | | |
| PC1.5.13 | | | Safety barriers | | | | |
| | PC1.5.13 | (a) | Provide HDPE plastic mobile road safety barrier, NJ type (2m x 1m High) taped with yellow reflective tape, two strips on either side | number (No.) | 50 | | |
| | | (b) | Placing, moving and final removal of HDPE NJ type barriers upon completion of the works | lump sum | 1 | | |
| PC1.5.16 | | | Contractor's escort | | | | |
| | PC1.5.16 | (a) | Provisional sum for contractor's escort of carrying out the duties and responsibilities including lights and radios | provisional sum | 1 | R144 000.00 | R 144 000.00 |
| | | (b) | Handling cost, profit and all other charges in respect of item C1.5.16.(a) | percentage (%) | R 144 000.00 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | | R |

| ACSA - BFIA 8202/2026 | | | | | | |
|--|----------|---|-----------------------|-------------|-------------|--------------|
| FOR: CONTRACTOR APPOINTMENT FOR THE C1.6 CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS | | | CLEARING AND GRUBBING | | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| C1.6.1 | | Clearing | | | | |
| | C1.6.1.1 | Clearing with machines and some hand labour where necessary | hectare (ha) | 1.5 | | |
| | C1.6.1.2 | Clearing with hand labour only when labour enhanced work is specified | hectare (ha) | 0.25 | | |
| C1.6.2 | | Grubbing | | | | |
| | C1.6.2.1 | Grubbing with machines and some hand labour where necessary | hectare (ha) | 1.4 | | |
| | C1.6.2.2 | Grubbing with hand labour when labour enhancement work is specified or it is not practical to use a machine | hectare (ha) | 0.15 | | |
| C1.6.3 | | Removal and grubbing of large trees and tree stumps: | | | | |
| | C1.6.3.1 | Girth equal to or exceeding 1,0m up to and including 2,0m | number (No.) | 5 | | |
| | C1.6.3.2 | Girth exceeding 2,0m up to and including 3,0m | number (No.) | 2 | | |
| | C1.6.3.3 | Girth exceeding 3,0m | number (No.) | 2 | | |
| C1.6.4 | | Removal of buildings and structures | | | | |
| | (a) | <i>Demolition of existing structures</i> | provisional sum | 1 | R180 000.00 | R 180 000.00 |
| | (b) | Handling cost, profit and all other charges in respect of item C1.6.4. (a) | percentage (%) | R180 000.00 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

ACSA - BFIA 8202/2026

C1.7 FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

LOADING AND HAULING

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|----------|--|---|----------|------|----------|
| C1.7.1 | | Loading | | | | |
| | C1.7.1.1 | Loading from stockpile using machines and some hand labour where necessary | cubic metre (m ³) | 5000 | | |
| | C1.7.1.2 | Loading from heaps or windrows using machines and/some hand labour where necessary | cubic metre (m ³) | 200 | | |
| | C1.7.1.3 | Loading by hand only from stockpile or heaps when labour enhancement work is specified or it is not possible to use machines | cubic metre (m ³) | 1000 | | |
| C1.7.2 | | Hauling | | | | |
| | C1.7.2.1 | Hauling material for use in the Works and off-loading it on the site of the Works: | | | | |
| | (a) | Soil, gravel, crushed stone and pavement layer material | cubic metre - kilometre (m ³ - km) | 12000 | | |
| | C1.7.2.2 | Hauling material to spoil and off-loading it at a designated spoil or stockpile area: | | | | |
| | (a) | Cleared and grubbed material (<i>organic matter and all other unsuitable or waste material</i>) | cubic metre - kilometre (m ³ - km) | 7875 | | |
| | (b) | Soil and gravel material | cubic metre - kilometre (m ³ - km) | 23093.75 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

| ACSA - BFIA 8202/2026 | | | | | | |
|---|-----------|--|-------------------------------|---|----------------|----------------|
| C2.1 | | FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 | | GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| C2.1.1 | | Location, identification, protection and relocation of existing services | | | | |
| | C2.1.1.1 | Contractor's obligations | lump sum | 1 | | |
| | C2.1.1.2 | Permanent services relocation or protection work by others | provisional sum | 1 | | |
| | C2.1.1.3 | Handling costs and profit in respect of item C2.1.1.2 above | percentage (%) | R - | | |
| | C2.1.1.4 | Permanent services relocation or protection work by the Contractor | provisional sum | 1 | R 1 000 000.00 | R 1 000 000.00 |
| | C2.1.1.5 | Handling costs and profit in respect of item C2.1.1.4 above | percentage (%) | R 1 000 000.00 | | |
| C2.1.2 | | Existing services location, detection and verification | | | | |
| | C2.1.2.1 | Using specialist detection services (<i>ground penetrating radar, radio detection etc.</i>) | provisional sum | 1 | R 650 000.00 | R 650 000.00 |
| | C2.1.2.2 | Handling costs and profit in respect of item C2.1.2.1 above | percentage (%) | R 650 000.00 | | |
| | C2.1.2.3 | Survey to verify existing service positions | provisional sum | 1 | R 30 000.00 | R 30 000.00 |
| | C2.1.2.4 | Handling costs and profit in respect of item C2.1.2.3 above | percentage (%) | R 30 000.00 | | |
| | C2.1.2.5 | Using hand excavation to locate, expose and verify services | cubic metre (m ³) | 200 | | |
| C2.1.3 | | Obtaining construction or work permits | lump sum | 1 | | |
| C2.1.6 | | Trench excavation (in soft material) | | | | |
| | C2.1.6.1 | Trenches up to 1,0m wide | | | | |
| | | (a) Up to 1,0m deep | cubic metre (m ³) | 495 | | |
| | | (b) Over 1,0m and up to 2,0m deep | cubic metre (m ³) | 297 | | |
| | | (c) Over 2,0m deep etc. to be inserted, increased by additional 1,0m depths as required | cubic metre (m ³) | 99 | | |
| C2.1.7 | | Extra over items C2.1.6, C2.1.8 and C2.1.16 for excavating in: | | | | |
| | C2.1.7.1 | Hard material irrespective of depth | cubic metre (m ³) | 123.75 | | |
| C2.1.9 | | Trench excavation using labour enhanced construction methods | | | | |
| | C2.1.9.1 | Trenches up to 1,0m wide (<i>in soft material</i>) | | | | |
| | | (a) Up to 1,0m deep | cubic metre (m ³) | 75 | | |
| | | (b) Over 1,0m and up to 1,5m deep | cubic metre (m ³) | 75 | | |
| C2.1.19 | | Dealing with water during services work | | | | |
| | C2.1.19.1 | Dealing with surface water | lump sum | 1 | | |
| | C2.1.19.2 | Dealing with subsurface water | lump sum | 1 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

C3.1

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION
OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF
SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT
FOR A PERIOD OF 24 MONTHS

DRAINS

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|------------|--|---|------|------|----------|
| C3.1.1 | | Excavation for open drains: | | | | |
| | C3.1.1.1 | Excavating all material situated within the following depth ranges below the surface level using conventional methods: | | | | |
| | | (a) 0m to 1,5m | cubic metre (m ³) | 325 | | |
| | | (b) Exceeding 1,5m and up to 3,0m | cubic metre (m ³) | 85 | | |
| | C3.1.1.2 | Extra over sub-item C3.1.1.1 for excavation in hard and boulder material, irrespective of depth | cubic metre (m ³) | 44 | | |
| | C3.1.1.4 | Excavating soft material situated 0m to 1,5m below the surface level using labour enhanced construction methods | cubic metre (m ³) | 65 | | |
| C3.1.2 | | Clearing, shaping and disposal of accumulated sediment in existing unlined open drains | | | | |
| | C3.1.2.2 | Using labour enhanced construction methods | cubic metre (m ³) | 250 | | |
| C3.1.4 | | Excavation and disposal of material for subsoil drainage systems: | | | | |
| | C3.1.4.1 | Excavating in all material situated within the following depth ranges below the surface: | | | | |
| | C3.1.4.2 | Excavating soft material situated within 0m to 1,5m below the surface level using labour enhanced construction methods | cubic metre (m ³) | 300 | | |
| | C3.1.4.3 | Excavating intermediate material situated within 0m to 1,5m below the surface level using labour enhanced construction methods | cubic metre (m ³) | 76 | | |
| | C3.1.4.4 | Extra over sub-item C3.1.4.1 for excavation in hard and boulder material, irrespective of depth | cubic metre (m ³) | 54 | | |
| C3.1.5 | | Impermeable backfilling to subsoil drainage systems | | | | |
| | C3.1.5.1 | Un-stabilised natural gravel obtained from approved sources on the site | cubic metre (m ³) | 215 | | |
| | C3.1.5.2 | G5 material obtained from commercial sources | cubic metre (m ³) | 50 | | |
| | C3.1.5.3 | Extra over items C3.1.5.1 and C3.1.5.2 for stabilisation with 4,0% CEM II (32.5) cement | cubic metre (m ³) | 50 | | |
| C3.1.7 | | Natural permeable material in subsoil drainage systems (approved crushed stone): | | | | |
| | C3.1.7.2 | Crushed stone obtained from commercial sources (20mm stone size) | cubic metre (m ³) | 215 | | |
| C3.1.8 | | Natural permeable material in subsoil drainage systems (approved natural sand): | | | | |
| | C3.1.8.2 | Natural sand from commercial sources (state grade) | cubic metre (m ³) | 120 | | |
| C3.1.9 | | Pipes in subsoil drainage systems: | | | | |
| | C3.1.9.1 | U-PVC pipes and fittings, normal duty, complete with couplings (state size and whether or not perforated or slotted) | | | | |
| | | (a) 100 mm internal dia, perforated or slotted | metre (m) | 200 | | |
| | | (b) 100 mm internal dia, unperforated | metre (m) | 20 | | |
| | | (c) 150 mm internal dia, perforated | metre (m) | 200 | | |
| | | (d) 150 mm internal dia, unperforated | metre (m) | 20 | | |
| C3.1.10 | | Polymer film sheeting or equivalent material, for lining subsoil drainage systems: | | | | |
| | C3.1.10.1 | 0,15mm thick | square metre (m ²) | 455 | | |
| C3.1.11 | | Geotextiles (Synthetic-fibre filter fabric (Grade 2)) | | | | |
| | | | square metre (m ²) | 112 | | |
| C3.1.13 | | Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems: | | | | |
| | C3.1.13.1 | Outlet structures (Type A) | number (No.) | 3 | | |
| | C3.1.13.3 | Junction boxes (specify each type and drawing reference) | number (No.) | 5 | | |
| | C3.1.13.4 | Cleaning eyes (specify each type and drawing reference) | number (No.) | 12 | | |
| C3.1.14 | | Caps for subsoil drain pipes: | | | | |
| | C3.1.14.1 | Concrete caps | number (No.) | 15 | | |
| PC3.1.16 | | Loading and hauling of material in excess of 3,0 km | | | | |
| | | | cubic metre - kilometre (m ³ - km) | 1000 | | |
| C3.1.20 | | Breaking into existing drainage structures and install subsoil drain pipe | | | | |
| | | | number (No.) | 2 | | |
| C3.1.22 | | Test flushing of subsoil drain pipe systems | | | | |
| | | | number (No.) | 3 | | |
| C3.1.23 | | Subsoil drain outlet marker (type or drawing specified) | | | | |
| | | | number (No.) | 3 | | |
| PC3.1.26 | | Galvanized wire mesh, 250 x 250mm at the outlets of subsoil drainage systems: | | | | |
| | PC3.1.26.1 | Mesh 10mm x 10mm x 2,5mm wire diameter | No. | 3 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

C3.2

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

CULVERTS

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|--------|----------|--|--------------------------------|--------|------|-----|
| C3.2.1 | | Excavation for culvert structures: | | | | |
| | C3.2.1.1 | Excavating in all material situated within the following depth ranges below the surface level: | | | | |
| | | (a) 0m to 1,5m | cubic metre (m ³) | 649.08 | | |
| | | (b) Exceeding 1,5m and up to 3,0m | cubic metre (m ³) | 95.45 | | |
| | C3.2.1.4 | Extra over sub-item C3.2.1.1 for excavation in hard or boulder material, irrespective of depth | cubic metre (m ³) | 57.27 | | |
| C3.2.2 | | Backfilling | | | | |
| | C3.2.2.1 | Using the excavated material | cubic metre (m ³) | 305.44 | | |
| | C3.2.2.2 | Using imported selected material: | | | | |
| | | (a) From commercial sources (rockfill) | cubic metre (m ³) | 120.00 | | |
| | C3.2.2.3 | Extra over sub-items C3.2.2.1 and C3.2.2.2 for soil cement backfilling | | | | |
| | | (b) With dry mixture (<i>soilcrete</i>) backfilling containing 5% cement | cubic metre (m ³) | 15 | | |
| C3.2.3 | | Concrete pipe culverts: | | | | |
| | C3.2.3.2 | On Class B bedding (spigot & socket, Class 100D) | | | | |
| | | (a) 300 mm dia | metre (m) | 44.00 | | |
| | | (b) 375 mm dia | metre (m) | 25.00 | | |
| | | (c) 450 mm dia | metre (m) | 152.00 | | |
| | | (d) 525 mm dia | metre (m) | 45.00 | | |
| | | (e) 600 mm dia | metre (m) | 50.00 | | |
| C3.2.4 | | METAL or U-PVC culverts: | | | | |
| | C3.2.4.4 | Protective coating to U-PVC culverts (<i>Class 16</i>) | | | | |
| | | (b) 150 mm dia | metre (m) | 15.00 | | |
| | | (c) 225 mm dia | metre (m) | 33.00 | | |
| | | (d) 300 mm dia | metre (m) | 34.00 | | |
| | | (e) 375 mm dia | metre (m) | 25.00 | | |
| | | (f) 450 mm dia | metre (m) | 52.00 | | |
| | | (g) 525 mm dia | metre (m) | 32.00 | | |
| C3.2.7 | | Cast in situ concrete and formwork: | | | | |
| | C3.2.7.2 | In complete in situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (<i>Class 30/20 concrete</i>) (installed at a standard depth of 1,0m) | cubic metre (m ³) | 11.00 | | |
| | C3.2.7.5 | In inlet and outlet structures including kerbs, chutes and downpipes, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surfacing finish (<i>Class 30/19 concrete</i>) | cubic metre (m ³) | 15.00 | | |
| | C3.2.7.6 | Formwork of concrete under items C3.2.7.3 to 5 above (<i>Class F2 surface finish</i>) | square metre (m ²) | 112.00 | | |
| C3.2.8 | | Concrete backfill or encasement for culverts (<i>class 1:4:8/38 concrete between precast culverts</i>) | cubic metre (m ³) | 66.00 | | |
| C3.2.9 | | Prefabricated concrete inlets and outlets to culverts | | | | |
| | | (a) Headwalls | | | | |
| | | (i) for 225mm dia. Class 100D | No. | 4.00 | | |
| | | (ii) for 300mm dia. Class 100D | No. | 2.00 | | |
| | | (iii) for 450mm dia. Class 100D | No. | 4.00 | | |
| | | (b) Field Inlets | | | | |
| | | (i) for 225mm dia. Class 100D | No. | 6.00 | | |
| | | (ii) for 300mm dia. Class 100D | No. | 6.00 | | |
| | | (iii) for 450mm dia. Class 100D | No. | 12.00 | | |
| | | (c) Grid Inlets | | | | |
| | | (i) for 225mm dia. Class 100D | No. | 6.00 | | |
| | | (ii) for 300mm dia. Class 100D | No. | 6.00 | | |
| | | (iii) for 450mm dia. Class 100D | No. | 7.00 | | |
| | | (d) Manholes | | | | |
| | | (i) for 225mm dia. Class 100D | No. | 4.00 | | |
| | | (ii) for 300mm dia. Class 100D | No. | 4.00 | | |

CARRIED FORWARD

| C3.2 | | CULVERTS | | | | |
|---|-----------|--|--------------------------------|--------|------|----------|
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| BROUGHT FORWARD | | | | | | |
| | | (iii) for 450mm dia. Class 100D | No. | 5.00 | | |
| C3.2.10 | | Reinforcement: | | | | |
| | C3.2.10.1 | Mild steel bars | ton (t) | 0.30 | | |
| | C3.2.10.2 | High-tensile steel bars | ton (t) | 0.20 | | |
| | C3.2.10.3 | Welded steel fabric | kilogram (kg) | 88.00 | | |
| C3.2.12 | | Demolition of concrete members or elements: | | | | |
| | C3.2.12.1 | Full member or element | cubic metre (m ³) | 175.00 | | |
| | C3.2.12.2 | Partial member or element | cubic metre (m ³) | 105.00 | | |
| C3.2.13 | | Removing and re-laying existing culverts: | | | | |
| | C3.2.13.1 | Removing and stacking existing culverts for re-use (irrespective of type or size of the pipe) | metre (m) | 485.00 | | |
| | C3.2.13.3 | Re-laying existing culverts from stacking (irrespective of type or size of the pipe) | metre (m) | 485.00 | | |
| C3.2.17 | | Plaster | square metre (m ²) | 58.00 | | |
| C3.2.18 | | Benching | cubic metre (m ³) | 30.00 | | |
| C3.2.23 | | Breaking into existing drainage structures and building in pipes or culverts of the following size (any size) | number (No.) | 15.00 | | |
| C3.2.24 | | Compaction of bedding for inlets, outlets, manholes and catchpits: | | | | |
| | C3.2.24.1 | Preparation and compaction of in situ bedding material to 90% of MDD (150mm) | cubic metre (m ³) | 355.00 | | |
| | C3.2.24.2 | Extra-over sub-item C3.2.24.1 for compaction to 93% of MDD (150mm) | cubic metre (m ³) | 355.00 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

| ACSA - BFIA 8202/2026 | | | | | | |
|--|-----------|---|--|------|------|----------|
| C3.3 FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS | | | CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS | | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| C3.3.1 | | Concrete kerbing: | | | | |
| | C3.3.1.1 | Prefabricated kerbing (SABS 927, Figure 8c and bedding with reference to drawing) | | | | |
| | | (a) Straight sections | metre (m) | 800 | | |
| | | (b) Curved sections, radius over 4m, but up to and including 20m | metre (m) | 100 | | |
| | | Figure 12 kerb | metre (m) | 600 | | |
| C3.3.2 | | Concrete kerbing-channeling combination: | | | | |
| | C3.3.2.1 | Prefabricated kerbing Fig. 7 - channeling (concrete class 25/20 200mm wide x 150 mm high and bedding) | | | | |
| | | (a) Straight Sections | metre (m) | 300 | | |
| C3.3.3 | | Extra over items C3.3.1 and C3.3.2 for concrete kerbing or concrete kerbing and channeling on curves | | | | |
| | C3.3.3.1 | On curves of radii more than or equal to 5,0m but less than 20m | metre (m) | 125 | | |
| | C3.3.3.2 | On curves with radii more than or equal to 1,0m but less than 5,0m | metre (m) | 100 | | |
| | C3.3.3.3 | On curves with radii less than 1,0m | metre (m) | 25 | | |
| C3.3.4 | | Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways | metre (m) | 100 | | |
| C3.3.8 | | Linings for open drains: | | | | |
| | C3.3.8.1 | Cast in situ concrete lining (Class 30/20) | cubic metre (m ³) | 50 | | |
| | C3.3.8.2 | Class U2 surface finish to cast in situ concrete | square metre (m ²) | 1500 | | |
| C3.3.12 | | Reinforcement: | | | | |
| | C3.3.12.1 | Mild steel bars | ton (t) | 1.5 | | |
| | C3.3.12.2 | High-tensile steel bars | ton (t) | 2 | | |
| | C3.3.12.3 | Welded steel fabric | kilogram (kg) | 4000 | | |
| C3.3.13 | | Polymer film sheeting (0,15mm thick) for concrete-lined open drains | square metre (m ²) | 1500 | | |
| C3.3.14 | | Cutting bituminous surfacing and pavement layers for concrete kerbing, channeling or concrete-lined drains | metre (m) | 200 | | |
| C3.3.15 | | Energy dissipaters in outlet structures | | | | |
| | C3.3.15.1 | Precast concrete blocks in outlet structures | number (No.) | 100 | | |
| C3.3.16 | | Demolition and removal of existing kerbs and/or channel (irrespective of type or size) | cubic metre (m ³) | 100 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

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C4.2 FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS CUT MATERIALS

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|----------|---|-------------------------------|------|------|----------|
| C4.2.1 | | Compiling and implementing M&U plans for the cuttings | | | | |
| | C4.2.1.1 | Cuttings exceeding 5 000 m ³ up to 10 000 m ³ | number (No.) | 1 | | |
| C4.2.3 | | Excavating of materials in cuttings, material obtained from | | | | |
| | C4.2.3.1 | Soft excavation | cubic metre (m ³) | 2000 | | |
| | C4.2.3.4 | Hard excavation (other than by blasting) | cubic metre (m ³) | 100 | | |
| C4.2.4 | | Excavating of materials in box cuts, material obtained from | | | | |
| | C4.2.4.1 | Soft excavation | cubic metre (m ³) | 500 | | |
| | C4.2.4.4 | Hard excavation (other than by blasting) | cubic metre (m ³) | 50 | | |
| C4.2.6 | | Widening of existing cuttings | | | | |
| | C4.2.6.1 | Soft excavation | cubic metre (m ³) | 250 | | |
| | C4.2.6.4 | Hard excavation (other than by blasting) | cubic metre (m ³) | 50 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

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C4.3

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

EXISTING ROAD MATERIALS

| ITEM | | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|-----------|-----|--|-------------------------------|-------------|-------------|-------------|
| C4.3.1 | | | Additional material investigations | | | | |
| | C4.3.1.1 | | Cost of additional core drilling and trial pits, sampling of asphalt and laboratory testing | provisional sum | 1 | R 50 000.00 | R 50 000.00 |
| | C4.3.1.2 | | Handling cost and profit in respect of item C4.3.1.1 | percentage (%) | R 50 000.00 | | |
| C4.3.2 | | | Cleaning the existing road surface | | | | |
| C4.3.4 | | | Saw-cutting existing materials within the following average depth ranges | | | | |
| | C4.3.4.1 | | Asphalt material: | | | | |
| | | (a) | Up to 50mm | metre (m) | 200 | | |
| | C4.3.4.2 | | Crushed stone and gravel material: | | | | |
| | | (b) | Exceeding 100mm and up to 200mm | metre (m) | 350 | | |
| | | (c) | Etc. in 100mm increments | | 25 | | |
| | C4.3.4.3 | | Cemented material: | | | | |
| | | (a) | Up to 100mm | metre (m) | 300 | | |
| | | (b) | Exceeding 100mm and up to 200mm | metre (m) | 25 | | |
| C4.3.5 | | | Providing the milling machine on the site | | | | |
| | C4.3.5.1 | | Small milling machine with a cutting width of 1,2m or smaller | number (No.) | 1 | | |
| C4.3.6 | | | Milling and removal of existing asphalt layers with an average milling depth (Contractor takes ownership) | | | | |
| | C4.3.6.1 | | Not exceeding 50mm | cubic metre (m ³) | 494.75 | | |
| C4.3.8 | | | Excavating material by milling | | | | |
| | C4.3.8.1 | | Crushed stone material | cubic metre (m ³) | 1300 | | |
| C4.3.9 | | | Excavating material by using conventional road construction equipment | | | | |
| | C4.3.9.3 | | Cemented material | cubic metre (m ³) | 400 | | |
| | C4.3.9.4 | | Natural gravel and sand materials | cubic metre (m ³) | 3015 | | |
| C4.3.15 | | | Stockpiling of road layer materials | | | | |
| | C4.3.15.2 | | Crushed stone material | cubic metre (m ³) | 300 | | |
| | C4.3.15.3 | | Cemented material | cubic metre (m ³) | 300 | | |
| | C4.3.15.4 | | Natural gravel material | cubic metre (m ³) | 3015 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | | R |

| C4.4 | ACSA - BFIA 8202/2026 | | COMMERCIAL MATERIALS | | | |
|---|---|---|-------------------------------|---------|------|----------|
| | FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS | | | | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| C4.4.2 | | Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers | | | | |
| | C4.4.2.1 | Pavement layer material: | | | | |
| | | (d) Type G5B material | cubic metre (m ³) | 1479.53 | | |
| | | (e) Type G6 material (sidewalks) | cubic metre (m ³) | 5507 | | |
| | | (f) Type G7 material | cubic metre (m ³) | 1958.18 | | |
| C4.4.4 | | Cementitious stabilising agents | | | | |
| | C4.4.4.1 | Cement | ton (t) | 155 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

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C5.1

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION
OF UNDERGROUND MAIN WATER LINE AND REHABILITATION
OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL
AIRPORT FOR A PERIOD OF 24 MONTHS

ROADBED

| ITEM | | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|----------|-----|---|-------------------------------|---------|------|----------|
| C5.1.1 | | | Roadbed construction and compaction: | | | | |
| | C5.1.1.2 | | Compaction of in-situ material to 93% of MDD | cubic metre (m ³) | 1958.18 | | |
| C5.1.2 | | | Excavate material to spoil sites designed by the Employer: | | | | |
| | C5.1.2.1 | | Excavate material to spoil from roadbed construction, material obtained from: | | | | |
| | | (a) | Soft excavation | cubic metre (m ³) | 1400 | | |
| | | (d) | Hard excavation (other than by blasting) | cubic metre (m ³) | 25 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | | R |

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C5.3 FOR: CONTRACTOR APPOINTMENT FOR THE
CONSTRUCTION OF UNDERGROUND MAIN WATER LINE
AND REHABILITATION OF SERVICE ROADS AT BRAM
FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24
MONTHS

ROAD PAVEMENT LAYERS

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|----------|---|-------------------------------|--------------|--------------|--------------|
| C5.3.1 | | Compiling and implementing M&U plans for the construction of all the pavement layers. | number (No.) | 1 | | |
| C5.3.2 | | Construction of pavement layers | | | | |
| | C5.3.2.1 | Construction of layers using conventional construction methods: | | | | |
| | (a) | Lower selected layer (150mm, G9) compacted to 93% of MDD | cubic metre (m ³) | 1958.18 | | |
| | (b) | Lower selected subgrade layer (150mm, G9) compacted to 95% of MDD | cubic metre (m ³) | 1958.18 | | |
| | (c) | Upper selected layer ((150mm, G6) compacted to 95% of MDD | cubic metre (m ³) | 3263 | | |
| | (j) | Lower subbase gravel layer (chemically stabilised) (150mm, C4 (G6)) compacted to 95% of MDD | cubic metre (m ³) | 764.76 | | |
| | (l) | Upper subbase gravel layer (chemically stabilised) (150mm layer thickness) (C4) compacted to 95% of MDD | cubic metre (m ³) | 1479.53 | | |
| | (m) | Gravel base layer (unstabilised) (layer thickness indicated) compacted to 100% of MDD | cubic metre (m ³) | 1479.53 | | |
| C5.3.12 | | Surface regularity payment adjustments | provisional sum | 1 | R 100 000.00 | R 100 000.00 |
| | | Handling cost and profit in respect of item C5.3.12 | percentage (%) | R 100 000.00 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

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C5.4 FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS **STABILISATION**

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|----------|--|-------------------------------|----------|------|----------|
| C5.4.2 | | Chemical stabilisation: | | | | |
| | C5.4.2.1 | Chemical stabilisation (200mm layer thickness) of C4 pavement layers (G6 layer to be stabilised) | cubic metre (m ³) | 132.00 | | |
| | | Chemical stabilisation (150mm layer thickness) of C4 pavement layers (G6 layer to be stabilised) | cubic metre (m ³) | 1 479.53 | | |
| | | Chemical stabilisation (125mm layer thickness) of C4 pavement layers (G6 layer to be stabilised) | cubic metre (m ³) | 632.76 | | |
| C5.4.5 | | Cementitious stabilisation agents for pavement layers: | | | | |
| | C5.4.5.1 | Addition of cementitious stabilisation agents (specify agent separately) for pavement layers | | | | |
| | | (a) Cement (for pavement layer) | ton (t) | 154.9 | | |
| C5.4.10 | | Provision and application of water for curing | kilolitre (kl) | 500 | | |
| C5.4.14 | | Trial section for a chemically stabilised layer | cubic metre (m ³) | 100 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

| ACSA - BFIA 8202/2026 | | | | | | |
|---|----------|---|--------------------------------|----------------------------|------|----------|
| C6.1 | | FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS | | PAVER LAID CONCRETE LAYERS | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| C6.1.1 | | Construction of trial section (Complete: including texturing and curing) | | | | |
| | C6.1.1.1 | Mechanical construction (200 mm thick) | square metre (m ²) | 50 | | |
| | C6.1.1.2 | Labour enhanced construction (200mm thick) | square metre (m ²) | 50 | | |
| C6.1.2 | | Construction of jointed concrete pavement (JCP) (Excluding texturing and curing) | | | | |
| | C6.1.2.2 | JCP with dowels: | | | | |
| | (b) | Labour enhanced construction (200mm Thick) | square metre (m ²) | 660 | | |
| C6.1.4 | | Texturing and curing the concrete pavement | | | | |
| | C6.1.4.1 | Burlap-dragged and grooved texture: | | | | |
| | (b) | Labour enhanced construction | square metre (m ²) | 660 | | |
| | C6.1.4.3 | Curing: | | | | |
| | (b) | Labour enhanced construction | square metre (m ²) | 660 | | |
| C6.1.5 | | Variation in the rate of application of the curing compound | litre (l) | | | |
| C6.1.6 | | Joints | | | | |
| | C6.1.6.1 | Expansion joints complete (excluding dowels) | metre (m) | 340 | | |
| | C6.1.6.2 | Longitudinal hinge joints: | | | | |
| | C6.1.6.3 | Sealed transverse contraction joints sawn in two separate operations (widths as shown on the drawings) | metre (m) | 340 | | |
| | C6.1.6.5 | Tie-bars: installed in new concrete (as shown on drawings) : | | | | |
| | (b) | High tensile steel | number (No.) | 1133 | | |
| C6.1.7 | | Steel reinforcement in concrete pavements | | | | |
| | C6.1.7.2 | High tensile steel bars | ton (t) | 12 | | |
| | C6.1.7.3 | Welded steel fabric | kilogram (kg) | 2053 | | |
| C6.1.8 | | Drilling of testing of cores | | | | |
| | C6.1.8.1 | 100mm cores drilled from pavement for testing of compressive strength | number (No.) | 11 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

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|---|-----------|---|--------------------------------|--------------|--------------|--------------|
| FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS | | | SEGMENTAL BLOCK PAVING LAYERS | | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| C6.2.1 | | Segmental block paving | | | | |
| | C6.2.1.1. | Concrete block paving (S-A blocks 35MPa, Interlocking, Grey, 80 mm thick) | square metre (m ²) | 2531 | | |
| C6.2.2 | | Cast in-situ concrete edge and intermediate beams | cubic metre (m ³) | 270 | | |
| C6.2.3 | | Provision and application of approved herbicide and ant poison | | | | |
| | C6.2.3.1 | Provision of materials | provisional sum | 1 | R 100 000.00 | R 100 000.00 |
| | C6.2.3.2 | Contractor's charges and profit added to the prime cost sum | percentage (%) | R 100 000.00 | | |
| C6.2.4 | | Re-sanding of joints in segmental block paving | | | | |
| | C6.2.4.1 | Concrete block paving (<i>indicate class, type and thickness of blocks</i>) | square metre (m ²) | 2531 | | |
| PC6.2.5 | | One layer of 250 micron "Consol Plastics Gunplay USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" | square metre (m ²) | 2531 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

ACSA - BFIA 8202/2026

C8.1

FOR: CONTRACTOR APPOINTMENT FOR THE
CONSTRUCTION OF UNDERGROUND MAIN WATER
LINE AND REHABILITATION OF SERVICE ROADS AT
BRAM FISCHER INTERNATIONAL AIRPORT FOR A
PERIOD OF 24 MONTHS

PRIME COAT

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|----------|-------------------------|-----------|-------|------|----------|
| C8.1.1 | | Prime coat: | | | | |
| | C8.1.1.2 | MC -30 cut-back bitumen | litre (l) | 10885 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

ACSA - BFIA 8202/2026

C9.1 FOR: CONTRACTOR APPOINTMENT FOR THE
CONSTRUCTION OF UNDERGROUND MAIN WATER LINE
AND REHABILITATION OF SERVICE ROADS AT BRAM
FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24
MONTHS

ASPHALT LAYERS

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|-----------|---|--------------------------------|--------|------|----------|
| C9.1.1 | | Asphalt mix designs | | | | |
| | C9.1.1.2 | Sand skeletal mixes: | | | | |
| | (a) | Continuously graded surfacing (40mm continuously graded asphalt, medium using PG 58-22 (Heavy) binder) | lump sum | 1 | | |
| C9.1.2 | | Construction of trial sections | | | | |
| | C9.1.2.1 | Asphalt layers (40mm continuously graded asphalt, medium using PG 58-22 (Heavy) binder and placing technique (paver)) | square metre (m ²) | 500 | | |
| | C9.1.2.2 | Removal of trial section where so instructed by the Engineer | square metre (m ²) | 500 | | |
| C9.1.3 | | Application of bond coat | | | | |
| | C9.1.3.1 | Stable-grade 30% net bitumen emulsion as specified. Applied with a calibrated distributor | litre (ℓ) | 5937 | | |
| | C9.1.3.2 | Applied in restricted areas using a portable pressure sprayer | litre (ℓ) | 1187.4 | | |
| C9.1.5 | | Asphalt surface | | | | |
| | C9.1.5.1 | New construction | | | | |
| | (g) | Continuously graded surfacing (40mm continuously graded asphalt, medium using PG 58-22 (Heavy) binder) | square metre (m ²) | 9895 | | |
| C9.1.6 | | Extra over pay items C9.1.4.1 and C9.1.5.1 for placing small quantities of asphalt of less than 10 tons specially produced as specified in terms of Clause A9.1.7.1(d) | ton (t) | 9 | | |
| C9.1.10 | | Variation rates | | | | |
| | C9.1.10.1 | Bitumen (PG 58-22) | ton (t) | 10 | | |
| | C9.1.10.2 | Aggregate | ton (t) | 30 | | |
| C9.1.13 | | Coring of asphalt layers | | | | |
| | C9.1.13.2 | 150mm diameter | number (No.) | 30 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

ACSA - BFIA 8202/2026

C10.1 FOR: CONTRACTOR APPOINTMENT FOR THE
CONSTRUCTION OF UNDERGROUND MAIN WATER LINE
AND REHABILITATION OF SERVICE ROADS AT BRAM
FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24
MONTHS

GENERAL REQUIREMENTS FOR SURFACE TREATMENTS

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|------------|---|--------------------------------|-----|------|-----|
| C10.1.22 | | Bituminous single seal and slurry, including a cover spray if specified: | | | | |
| | C10.1.22.2 | Bituminous single seal with 14mm aggregate and slurry (<i>Cationic 70% spray grade emulsion tack coat and 60% emulsion in penetration coat, grade 1 aggregate and two fine medium grade applications of slurry</i>) | square metre (m ²) | 200 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

C11.2 FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS NON-STRUCTURAL GABIONS

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|-----------|--|--------------------------------|-----|------|----------|
| C11.2.1 | | Foundation trench excavation: | | | | |
| | C11.2.1.1 | Excavating all material situated within the following depth ranges below the surface level | | | | |
| | | (a) 0m to 1,5m | cubic metre (m ³) | 322 | | |
| | C11.2.1.2 | Extra over sub-item C11.2.1.1 for excavation in hard material, irrespective of depth | cubic metre (m ³) | 66 | | |
| C11.2.2 | | Surface preparation for bedding the gabion boxes and mattresses | square metre (m ²) | 805 | | |
| C11.2.3 | | Gabion boxes and mattresses: | | | | |
| | C11.2.3.1 | Galvanized gabion boxes (0,5 m x 0,5 m x 1,0 m) | cubic metre (m ³) | 322 | | |
| C11.2.4 | | Geotextile (non woven, min 210 g/m2) | square metre (m ²) | 805 | | |
| | | | | | | |
| | | | | | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

| ACSA - BFIA 8202/2026 | | ROAD SIGNS | | | | |
|---|------------|--|--------------------------------|-----|------|----------|
| C11.6 FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS | | | | | | |
| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
| C11.6.1 | | Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi- matt black or in Class I retro reflective material, where the sign board is constructed from: | | | | |
| | C11.6.1.1 | Aluminium sheet (2,0mm thick): | | | | |
| | | (b) Area exceeding 0,5 m ² but not 2,0 m ² | square metre (m ²) | 75 | | |
| | | (c) Area exceeding 2,0 m ² but not 10 m ² | square metre (m ²) | 35 | | |
| | C11.6.1.7 | Regulatory signs, permanent: | | | | |
| | | 900 mm diameter (signboard material, background and symbol retro-reflective class indicated) | number (No.) | 10 | | |
| | | (c) 1200 mm diameter (signboard material, background and symbol retro-reflective class | number (No.) | 15 | | |
| | C11.6.1.8 | Regulatory signs, temporary: | | | | |
| | | 900 mm diameter (signboard material, background and symbol retro-reflective class indicated) | number (No.) | 2 | | |
| | | (c) 1200 mm diameter (signboard material, background and symbol retro-reflective class | number (No.) | 20 | | |
| | C11.6.1.9 | Warning signs,Permanent: | | | | |
| | | 900 mm diameter (signboard material, background and symbol retro-reflective class indicated) | number (No.) | 20 | | |
| | | (c) 1200 mm diameter (signboard material, background and symbol retro-reflective class | number (No.) | 10 | | |
| | C11.6.1.10 | Warning signs, Temporary: | | | | |
| | | 600 mm diameter (signboard material, background and symbol retro-reflective class indicated) | number (No.) | 8 | | |
| | | (b) 900 mm diameter (signboard material, background and symbol retro-reflective class indicated) | number (No.) | 4 | | |
| | | (c) 1200 mm diameter (signboard material, background and symbol retro-reflective class | number (No.) | 60 | | |
| | | (d) 1500 mm size (signboard material, background and symbol retro-reflective class indicated) | number (No.) | 20 | | |
| | C11.6.1.12 | Supplementary plates to temporary regulatory or warning signs (signboard material, background and symbol retro-reflective class indicated) | square metre (m ²) | 140 | | |
| C11.6.2 | | Extra over on item C11.6.1 for using: | | | | |
| | C11.6.2.1 | Background of retro-reflective material: | | | | |
| | | (a) Class I | square metre (m ²) | 30 | | |
| | | (b) Class III | square metre (m ²) | 50 | | |
| | C11.6.2.2 | Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material: | | | | |
| | | (a) Class III | square metre (m ²) | 10 | | |
| C11.6.3 | | Road sign supports (overhead road sign structures excluded): | | | | |
| | C11.6.3.1 | Steel tubing {D-shaped 76mm diameter x 2mm wall thickness and galvanised treated poles capped with a 12mm hole drilled 200mm from the bottom for a safety pin(150mm long)} | t (ton) | 6 | | |
| | C11.6.3.2 | Timber (150mm and cass treated) | metre (m) | 500 | | |
| C11.6.5 | | Excavation and backfilling for road sign supports (not applicable to kilometre posts) | | | | |
| | C11.6.5.1 | Excavating soft material and backfilling | cubic metre (m ³) | 30 | | |
| | C11.6.5.3 | Extra over item C11.6.5.1 and C11.6.5.2 for cement-treated soil backfill | cubic metre (m ³) | 25 | | |
| | C11.6.5.5 | Imported backfill material from commercial sources | cubic metre (m ³) | 60 | | |
| C11.6.8 | | Danger plates at culverts/structures | | | | |
| | C11.6.8.1 | Size 800 x 200mm chromadek plate with Class III retroreflective background on 50mm x 50mm galvanised square tubing with 2 mm wall thickness as per drawing SC/012/TD02/DD06 | number (No.) | 35 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

ACSA - BFIA 8202/2026

C11.7 FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

ROAD MARKINGS AND ROAD STUDS

| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|---|----------------|-----------|-----------|-----------|
| C11.7.1 | Road marking: | | | | |
| C11.7.2 | Retro-reflective road marking: | | | | |
| C11.7.2.1 | White lines broken or unbroken (Solvent) | | | | |
| | (a) 100 mm wide | km | 2 | | |
| | (b) 150 mm wide | km | 0.5 | | |
| | (c) 200 mm wide | km | 0.2 | | |
| C11.7.2.2 | Yellow lines broken or unbroken (100mm) | | | | |
| | (a) 100 mm wide | km | 4 | | |
| | (b) 150 mm wide | km | 0.4 | | |
| C11.7.2.4 | White lettering and symbols (Solvent) | m ² | 50 | | |
| C11.7.2.5 | Yellow lettering and symbols (Solvent) | m ² | 20 | | |
| C11.7.2.7 | Transverse lines, painted island and arrestor bed markings (any colour) (water borne) | m ² | 350 | | |
| C11.7.5 | Variations in rate of application: | | | | |
| C11.7.5.1 | White paint | ℓ | 300 | | |
| C11.7.5.2 | Yellow paint | ℓ | 300 | | |
| C11.7.7 | Road studs | | | | |
| C11.7.7.5 | Provision of temporary and permanent road studs | Prov Sum | 1 | 50 000.00 | 50 000.00 |
| C11.7.7.6 | Handling cost, profit and all other charges of sub item C11.7.7.5 | % | 50 000.00 | | |
| C11.7.8 | Setting out and premarking the lines (excluding traffic island markings, lettering and symbols) | kilometre (km) | 8 | | |
| C11.7.9 | Re-establishing the painting unit during the defects notification period and at other instances on instruction of the Engineer | No | 2 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | R |

ACSA - BFIA 8202/2026

C11.9 FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

| ITEM | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|----------------------------------|-----------|--------------------------------------|----------------|-----|------|-----|
| C11.9.1 | | Finishing the road and road reserve: | | | | |
| | C11.9.1.2 | Single carriageway road | kilometre (km) | 3 | | |
| | | | | | | |
| | | | | | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R |

C20.1

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP

| ITEM | | | DESCRIPTION | UNIT | QTY | RATE | AMT |
|---|-----------|-----|---|---------------------|----------------|----------------|----------------|
| C20.1.6 | | | TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP | | | | |
| | C20.1.6.1 | (a) | Provision for testing materials and judgement of workmanship | prime cost (PC) sum | 1 | R 2 300 000.00 | R 2 300 000.00 |
| | | (b) | Handling cost and profit in respect of item PC20.1.6.1 | percentage (%) | R 2 300 000.00 | | |
| | | (c) | Financial contribution for an independent site/commercial laboratory (to be a negative rate) | percentage (%) | R 2 300 000.00 | | |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | | R |

C2.3 SUMMARY OF PRICING SCHEDULE FOR SECTION 1

ACSA - BFIA 8202/2026

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

| | | |
|---|----------|---|
| GENERAL | | |
| C1.2 GENERAL REQUIREMENTS AND PROVISIONS | | |
| C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS | | |
| C1.4 FACILITIES FOR THE ENGINEER | | |
| C1.5 ACCOMMODATION OF TRAFFIC | | |
| C1.6 CLEARING AND GRUBBING | | |
| C1.7 LOADING AND HAULING | R | R |
| SERVICES | | |
| C2.1 GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES | R | R |
| DRAINAGE | | |
| C3.1 DRAINS | R | |
| C3.2 CULVERTS | R | |
| C3.3 CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS | R | R |
| EARTHWORKS AND PAVEMENT LAYERS MATERIALS | | |
| C4.2 CUT MATERIALS | R | |
| C4.3 EXISTING ROAD MATERIALS | R | |
| C4.4 COMMERCIAL MATERIALS | R | R |
| EARTHWORKS AND PAVEMENT LAYERS CONSTRUCTION | | |
| C5.1 ROADBED | R | |
| C5.3 ROAD PAVEMENT LAYERS | R | |
| C5.4 STABILISATION | R | R |
| CONCRETE LAYERS | | |
| C6.1 PAVER LAID CONCRETE LAYERS | R | |
| C6.2 SEGMENTAL BLOCK PAVING LAYERS | R | R |
| PRETREATMENT AND REPAIR EXISTING LAYERS | | |
| C8.1 PRIME COAT | R | R |
| ASPHALT LAYERS | | |
| C9.1 ASPHALT LAYERS | R | R |
| SURFACE TREATMENTS | | |
| C10.1 GENERAL REQUIREMENTS FOR SURFACE TREATMENTS | R | R |
| ANCILLIARY ROAD WORKS | | |
| C11.2 NON-STRUCTURAL GABIONS | R | |
| C11.6 ROAD SIGNS | R | |
| C11.7 ROAD MARKINGS AND ROAD STUDS | R | |
| C11.9 FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS | R | R |
| QUALITY ASSURANCE | | |
| C20.1 TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP | R | R |
| SUBTOTAL | | |
| TOTAL CARRIED TO FINAL SUMMARY | R | |

SECTION 2: MECHANICAL INSTALLATION

| Item | Description | Unit | Quantity | Rate | Amount |
|-------------------------------------|--|------|------------|------|--------|
| 1. | BILL NO. 1: PRELIMINARY AND GENERAL | | | | |
| 1.1. | Compliance with General Conditions of Contract, Special Conditions of Contract, Insurances (except riot and political riot,) Sureties, Travelling, Out-of-Town Allowances, Targeted procurement, municipal fee's etc.) | Sum | 1 | | R 0.00 |
| 1.2. | Compliance with Health and Safety requirements | Sum | 1 | | R 0.00 |
| 2. | BILL NO. 2: FIRE WATER SYSTEM | | | | |
| | Rates for all fittings, valves, etc. shall be deemed to include for necessary male or female couplings and connections to pipework. Bends, junctions etc. are measured as a single fitting. Should the contractor elect to use more than one fitting (e.g. 2 x 45° bend to create one bend or slow bend, or a reducer and a tee to create a reducing tee) the final measure will count it as a single fitting. Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level | | | | |
| 2.1. | PUMPS AND WATER TANKS | | | | |
| | Rates include supply, delivery, off load and installation, including all necessary equipment and rigging. Installation shall include fixing, all necessary accessories, spring mounts and supports where required in accordance with the standard and technical specifications. Note: it is the sub-contractors responsibility to ensure that the pumps and tanks installation offered can be accommodated within the space available. | | | | |
| 2.1.1. | Circular steel tank Ø 16 m x 2 m high complete with liner, all ladders, platforms access hatches, roof, level indicators, vortex inhibitors and connection flanges and points | No. | Rate Only. | | |
| 2.1.2. | Sectional steel tank 12,2 m (L) x 10,98 m (W) x 4,88 m (H) complete with liner, all ladders, platforms, access hatches, roof, level indicators, vortex inhibitors and connection flanges and points | No. | Rate Only. | | |
| 2.1.3. | Cleaning and Servicing of the existing water tanks | No. | 2 | | R 0.00 |
| 2.1.4. | Water tank - high and low level water alarm sensors per tank and wired back to annunciator with PF contacts - Fixed probe type | No. | 4 | | R 0.00 |
| 2.1.5. | Electric driven fire pump-set - 360 m3/h @ 78 m, complete with all fittings and accessories | No. | 1 | | R 0.00 |
| 2.1.6. | Diesel engine driven fire pump-set - 360 m3/h @ 78 m, complete with day tank fitted with low level fuel alarm switch wired to annunciator, all fittings and accessories as specified, etc to curve in specification | No. | 1 | | R 0.00 |
| 2.1.7. | Jockey pump - 30 m3/h @ 83 m and controller complete with all fittings and accessories | No. | 1 | | R 0.00 |
| 2.1.8. | Diesel fuel to fill fuel tank and including fuel for testing and commissioning | Sum | 1 | | R 0.00 |
| 2.1.9. | Electric fire pump-set control panel complete with all fittings and accessories | No. | 1 | | R 0.00 |
| 2.1.10. | Diesel driven fire pump-set control panel complete with all fittings and accessories | No. | 1 | | R 0.00 |
| 2.1.11. | Modular 40 zone annunciator complete with RS 1000 unit, sirens, IP65 bell, solid state VAD | Sum | 1 | | R 0.00 |
| 2.2. | FIRE WATER PIPEWORK | | | | |
| | The price shall include for all fixing of materials into position, marking and setting out and any other items necessary for the complete installation including liaison and coordination with relevant affected trades. | | | | |
| 2.2.1. | PUMP HOUSE FIRE WATER PIPING | | | | |
| | Piping includes supply, deliver, off load and install the piping including all equipment complete with all accessories. Fire pump room piping complete, black steel - including all valves, fittings and supports but excluding fire pumps, suction and delivery piping | | | | |
| 2.2.1.1. | Pump house flow meter - Direct reading Gerand flow meter complete with galvanised steel pipe-work routed back to tank, isolating gate valve , throttling gate valve and drain valve with drain outlet piped externally to waste | Sum | 1 | | |
| 2.2.1.2. | Delivery check valves - Viking Easy Riser 250 mm | No. | 2 | | |
| 2.2.1.3. | Delivery pressure gauges 100 mm stainless steel, glycerine filled, 0 - 2500 kPa, SA Gauge process type complete with heavy pattern vented brass gauge cock | No. | 4 | | |
| 2.2.1.4. | Delivery isolation valves - Internally monitored GD B/Fly 250 mm | No. | 2 | | |
| 2.2.1.5. | Black steel delivery pipe-work between pumps and underground mains - 250 mm inclusive of all fittings, connections, excavations, Denso wrapping and making good etc | m | 15 | | |
| 2.2.1.6. | Auto-start arrangement - 4 stage copper complete with pressure switches, servicable pressure gauges, vented gauge cocks, Saunders valves, in-line servicable check valves and signs at each stage showing relative service and duty pressures - Drain taken to external drain point and fitted with 3mm orifice | Sum | 1 | | |
| 2.2.1.7. | Priming and painting of all exposed piping - Self-etch steel primer with 2 x top coats of signal red gloss enamel paint | Sum | 1 | | |
| 2.2.1.8. | Remote tank infill check valve 100 mm Easy Riser complete with isolating valve | Sum | 1 | | |
| 2.2.1.9. | Wiring of all monitored valves to annuicator control panel in galvanised steel conduit with Adapta-flex fittings and flexible conduit. | No. | 1 | | |
| | | Sum | 1 | | |
| AMOUNT CARRIED FORWARD TO NEXT PAGE | | | | | R |

| Item | Description | Unit | Quantity | Rate | Amount |
|---|--|------|----------|------|--------|
| AMOUNT BROUGHT FORWARD FROM PREVIOUS PAGE | | | | | R |
| 2.2.1.10 | 25 mm brass padlock keyed-alike complete with light galvanised chain | No. | 48 | | |
| 2.2.1.11 | Signage and label allowance - provisional | Sum | 1 | | |
| 2.2.1.12 | 3 mm x Ø50 mm Aluminium valve identification tags with crimped stainless steel wire | No. | 74 | | |
| 2.2.1.13 | Pump room framed and laminated instruction block plates and schematics | No. | 1 | | |
| 2.2.2 | SUCTION FIRE WATER PIPING Supply, deliver, off load and install the piping including all equipment, complete with all accessories. Installation shall include fixing, accessories, hangers, brackets and support. | | | | |
| 2.2.2.1 | Black steel 300 mm suction pipe-work, between tanks and pumps, inclusive of 2 x Ø200 flexible couplings, compound pressure gauges on vented gauge-cocks and long swept radius tees between tanks and pumps. | Sum | 1 | | |
| 2.2.2.2 | 300 mm OS & Y monitored valves to suction pipe-work, complete with hand-wheel | No. | 4 | | |
| 2.2.2.3 | Tank in-fill supply - 100 mm black steel connection to existing domestic supply point inclusive of excavation, back-fill, compaction, making good, tie-in, Denso wrapping etc | m | 84 | | |
| 2.2.2.4 | 100 mm Gear driven B/Fly valve with stainless steel disc - tank drain | No. | 2 | | |
| 2.2.2.5 | 100 mm Tank in-fill level control valve complete with pilot valve, all connections and stainless steel stilling chamber | No. | 4 | | |
| 2.2.2.6 | 100 mm internally monitored NO G/D B/F in-fill valve | No. | 4 | | |
| 2.2.2.7 | 100 mm Tank in-fill strainer | No. | 2 | | |
| 2.2.2.8 | Tank in-fill flow meter - Direct reading Gerand flow meter complete with black steel pipe-work (outlet galvanised pipe) isolating gate valve and throttling gate valve suited to site pressure and flow conditions | Sum | 1 | | |
| 2.2.3 | UNDERGROUND FIRE WATER PIPING Supply, deliver, off load and install the piping including all equipment, complete with all accessories. Piping installed underground to be in class 16 HDPE, anchor blocks, etc. | | | | |
| 2.2.3.1 | Fire hydrant, complete with concrete slab, Denso wrapping, support bracket, pressure gauge and pole signage - galvanised | No. | 18 | | |
| 2.2.3.2 | Underground reticulation piping, Class 16 HDPE inclusive of excavation, back-filling, compaction and making good | m | 1862 | | |
| 2.3. | TRAINING AND HANDOVER | | | | |
| 2.3.1. | Training of Caretaker / Facilities Manager | Sum | 1 | | |
| 2.3.2. | Operating and maintenance manuals and as built drawings - Hardcopy & Softcopy | No. | 4 | | |
| 2.3.3. | Pressure test and certification | No. | 2 | | |
| 2.3.4. | Two years of maintenance and guarantee | Sum | 1 | | |
| 3. | BILL NO. 3: DOMESTIC WATER SYSTEM The price shall include for all fixing of materials into position, marking and setting out and any other items necessary for the complete installation including liaison and coordination with relevant affected trades. The system is to be installed strictly in accordance with relevant Health & Safety requirements. | | | | |
| 3.1. | EARTHWORKS & TRENCHING | | | | |
| 3.1.1. | Excavate trenches for domestic water reticulation (≤1.0 m deep) | m | 2932 | | |
| 3.1.2. | Trench support/shoring where required | m | 2932 | | |
| 3.1.3. | Bedding material (sand/selected fill) | m³ | 2932 | | |
| 3.1.4. | Backfilling and compaction to 95% Mod AASHTO | m³ | 2932 | | |
| 3.2. | UNDERGROUND DOMESTIC WATER RETICULATION (BULK & DISTRIBUTION) Pipes to comply with SANS standards and airport authority specifications. | | | | |
| 3.2.1. | Class 16 HDPE pipe Ø200 mm incl. fittings | m | 209 | | |
| 3.2.2. | Class 16 HDPE pipe Ø250 mm incl. fittings | m | 2723 | | |
| 3.2.3. | Isolating gate valves | No. | 42 | | |
| 3.2.4. | Non-return valves | No. | 3 | | |
| 3.2.5. | Pressure reducing valves (PRVs) | No. | 2 | | |
| 3.2.6. | Valve chambers incl. covers | No. | 2 | | |
| 3.2.7. | Bulk water meter (approved by authority) | No. | 2 | | |
| 3.2.8. | Meter chambers complete | No. | 2 | | |
| AMOUNT CARRIED FORWARD TO NEXT PAGE | | | | | R |

| Item | Description | Unit | Quantity | Rate | Amount |
|---|---|------|----------|------|--------|
| AMOUNT BROUGHT FORWARD FROM PREVIOUS PAGE | | | | | R |
| 3.3. | DOMESTIC WATER STORAGE & BOOSTING | | | | |
| 3.3.1. | Booster pump set (duty/standby), complete with pipework, valves and fittings - Provisional | Sum | 1 | | |
| 3.3.2. | Geohydrological Study, Physical Survey and Siting of Borehole. Drilling of Borehole. Testing of Pump and Laboratory water sampling. Supply and Equipping of a borehole. | Sum | 1 | | |
| 3.3.3. | Control panel & VSD - Provisional | Sum | 1 | | |
| 3.4. | TRAINING AND HANDOVER | | | | |
| 3.4.1. | Training of Caretaker / Facilities Manager | Sum | 1 | | |
| 3.4.2. | Operating and maintenance manuals and as built drawings - Hardcopy & Softcopy | No. | 4 | | |
| 3.4.3. | Pressure test and certification | No. | 2 | | |
| 3.4.4. | Two years of maintenance and guarantee | Sum | 1 | | |
| AMOUNT CARRIED FORWARD TO NEXT PAGE | | | | | R |

C2.3 SUMMARY OF PRICING SCHEDULE FOR SECTION 2

ACSA - BFIA 8202/2026

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER
LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT
FOR A PERIOD OF 24 MONTHS

| | |
|---|----------|
| Mechanical installation as per Mechanical BOQ section 2 | R _____ |
| TOTAL CARRIED TO FINAL SUMMARY | R |

FINAL SUMMARY CARRIED TO C.1.1.1 :
FORM OF OFFER

C2.3 SUMMARY OF PRICING SCHEDULE FOR SECTION 1 AND 2

ACSA - BFIA 8202/2026

FOR: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER
 LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT
 FOR A PERIOD OF 24 MONTHS

FINAL SUMMARY

| | |
|---|---------------|
| SECTION 1: Preliminaries, Roads and Stormwater | R |
| SECTION 2: Mechanical Installation | R _____ |
| SUBTOTAL | R |
| SUBTOTAL CONSTRUCTION WORKS (EXCL. VAT, ESCALATION, CONTINGENCIES, SUNDRY DEVELOPMENT COST AND CSDG) | R |
| SUNDRY DEVELOPMENT COSTS | R500 000.00 |
| CIDB CONTRACT SKILLS DEVELOPMENT GOALS (CSDG) | 0.25% R _____ |
| COMMUNITY LIASON OFFICER (CLO) | R240 000.00 |
| PUBLIC LIASON COMMUNITY (PLC) | R300 000.00 |
| SUBTOTAL (EXCL. VAT, ESCALATION, CONTINGENCIES) | R |
| CONTINGENCIES | 10% R _____ |
| TOTAL (EXCL. VAT, ESCALATION) | R |
| ESCALATIONS | 6.50% R _____ |
| TOTAL ESTIMATE (EXCL. VAT) | R _____ |
| VALUE ADDED TAX: 15% of Subtotal | R _____ |
| TOTAL CARRIED TO C.1.1.1 : FORM OF OFFER | R |

SIGNED BY TENDERER: _____



AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

C3: SCOPE OF WORKS

| | |
|--|--------------|
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C3.1: DESCRIPTION OF THE WORKS

C3.1.1 EMPLOYER'S OBJECTIVES

The Employer's objective is to construction of underground main water line and rehabilitation of service roads at Bram Fischer International Airport to comply with the relevant recommended standards and practices in ICAO Annex 14.

One of the objectives of the project is to train any of the following (occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates)

The Contractor shall provide opportunities to learners requiring structured workplace learning using one or a combination of any of the Skills Methods as agreed: accommodate Part/Full Occupational qualification (Method 1), Trade qualifications learners (Method 2), train Work Integrated Learners – P1 and P2 Learners (Method 3) and/or Professional Candidates (Method 4) as indicated in the cidb Standard and as agreed to by the Employer on this project (Employer to stipulate)

C3.1.2 OVERVIEW OF THE WORKS

The work to be performed under this contract comprises mainly the construction of underground main water line and rehabilitation of service roads at Bram Fischer International Airport.

The following aspects will be addressed in this project:

(i) Roadworks and Pavement Rehabilitation

- Existing Service Roads (Portions A and B) shall be rehabilitated and resurfaced using 40 mm Continuously Graded Asphalt.
- Airside Roads (Portion C) shall be rehabilitated and resurfaced using 40 mm Continuously Graded Asphalt.
- New Access Roads (including Reservoir Road, Solar Plant Road, and Workshop Road) shall be constructed and surfaced using 40 mm Continuously Graded Asphalt.
- The Truck Turning Area shall be constructed using 80 mm interlocking concrete block paving.
- Replacement of 200 mm thick concrete panels located in front of the Fire and Rescue building.

(ii) Water Infrastructure Works

- Construction and installation of a new underground main water line, including trenching, pipe laying, bedding, backfilling, and testing.
- Installation of new domestic and fire water pipelines, including all valves, fittings, chambers, and associated appurtenances.
- Construction, upgrading, or modification of the pump house, including installation of new domestic and fire water pumps, mechanical and electrical components, and control systems.
- Connection of the new water infrastructure to existing systems, including tie-ins, commissioning, and operational testing.
- Provision of all necessary thrust blocks, valve chambers, meter installations, and protection measures for the water reticulation system.

(iii) Drainage and Ancillary Works

- Improvements to drainage systems along internal roads, including level corrections, cleaning, upgrading of drain inlets, and stormwater management measures.
- Reinstatement works including topsoil replacement, re-vegetation, hydroseeding, and removal of excess vegetation where required.

(iv) General and Associated Works

- Removal and replacement of existing infrastructure where required, including repair or replacement of damaged services encountered during construction.
- Reinstatement of road markings in accordance with existing layouts prior to opening of roads to traffic; adjustments to markings may be made where instructed.
- All testing, commissioning, and quality assurance processes to ensure compliance with project specifications and operational requirements.

C3.1.3 EXTENT OF THE WORKS

The description of the work contained in the Extent of Work is merely an outline of the work to be executed in terms of the contract and shall not limit the work to be carried out by the Contractor. Estimated quantities of each type of work to be carried out are listed in the Bill of Quantities. The planned rehabilitation and construction measures are shown on the construction drawings.

The Works included in this contract will mainly consist of the works described in the sub-sections below:

(a) General

General work operations include:

- i) Compilation and submission for approval of a detailed site safety plan and work method statements, all in compliance with the Manual for Working Airside – Volume 5.
- ii) Attendance by all site staff of a safety training course and obtaining ACSA permits. This includes the necessary vehicle and equipment driving permits for any driver having to drive airside, as indicated in the Manual for Working Airside – Volume 5.
- iii) Compile and submit a quality management plan for approval by the Employer's Agent.
- iv) Compliance with local and national Occupational Health and Safety regulations (OHS Act No. 85 of 1993) and ACSA Health and Safety regulations.
- v) Full compliance with the ACSA Environmental Specifications.
- vi) Establishment on site of the camp, storage area for materials allocated for this project.
- vii) Locating, relocating (where required) and protection of all services in the work areas.
- viii) Undertaking of asphalt mix designs and trials to prove compliance with specifications.
- ix) Structured and detailed interaction with various role players at the airport to ensure timeous completion of the works for each shift. These role players include the staff of the Airport Management (AM) and the Air Traffic Control (ATC). Management of the project planning and operational procedures for working airside.
- x) Cleaning of the construction area after each work shift to the satisfaction of AM staff.

(b) Pavement rehabilitation

Work will have to be undertaken in phases taking the current traffic pattern into consideration and ensuring that the airport will still be operational during the construction period. Majority of the work will be executed during normal daylight hours. Night shift work will only be required as and when the need arises.

Service Roads and Airside Roads

As described in the overview of the work, the rehabilitation items will include:

- Removal of existing ± 50 mm asphalt layer.
- Remove and stockpile existing base (to be re-used for lower layers).
- Remove and spoil existing Subbase layers.
- Reconstruct 150mm C4 Subbase layer by chemical modification.
- Reconstruct 150mm G5 Base layer.
- Reconstruct 150mm G6 upper Selected layer.
- Reconstruct 150mm G7 lower Selected layer.

(c) New Access Roads

- 40mm Continuously graded Asphalt Mix surfacing
- 150mm G5 Base layer (New)
- 150mm C4 Cement stabilised Subbase layer (New)
- 150mm G6 upper Selected layer (New)
- 150mm G7 Lower Selected layer (New)
- 150mm G9 Upper Subgrade layer (Existing)

(d) Replacement of damaged Concrete Panels in Front of Fire and Rescue

- 200mm thick 30MPa 4m x4m Concrete Reinforced with REF311 Mesh Top to replace damaged panels
- 200mm C4 Cement stabilised Subbase layer (New)
- 150mm G6 upper Selected layer (New)
- 150mm G7 Lower Selected layer
- 150mm G9 Upper Subgrade layer (Existing)

(e) Roadway edge protection and drainage improvement works

- Rehabilitation to grid inlets, including clearing of debris and silt build-up in manholes and open drains.
- New subsoil drains.
- Additional stormwater grid and field inlets.

(f) Other ancillary Works

There are a number of ancillary works which would be required as part of this contract which can be summarised as follows:

- Application of permanent and temporary roadway markings consisting of respectively reflective white and yellow markings using water-based paint complying with ICAO recommendations.
- Control dust and other pollution according to the safety plan and work method statements.

(g) Underground water main upgrade

- Site establishment, setting out, and verification of routes, levels, and existing services
- Careful excavation of trenches in airside and landside environments
- Supply, delivery, handling, and installation of new domestic and fire water pumps and mains, fittings, and appurtenances within the pump house
- Supply, delivery, handling, and installation of new underground domestic and fire water mains, fittings, and appurtenances
- Installation of isolation valves, air valves, scour valves, valve chambers, thrust and anchor blocks
- Temporary works required to maintain continuity of airport operations and existing water services
- Backfilling, compaction, and reinstatement of all disturbed surfaces
- Pressure testing, flushing, disinfection, commissioning, and integration with existing systems
- Submission of all quality, testing, and as-built documentation

(h) Changes to Scope of Work

It is a condition of this contract that the employer reserves the right to limit the total expenditure on the Works due to possible budget constraints. Should the tender sum exceed the budgeted amount, the scope of the works may be reduced at any time before or during the contract period to ensure that the final contract amount does not exceed the budgeted amount. Refer to Scope of Works sub-clause C1.1.3.9.

C3.1.4 LOCATION OF THE WORKS

The site of the Works is situated on the airside and landside of Bram Fischer International Airport in Bloemfontein. The site is under the jurisdiction of the Airports Company South Africa (ACSA). Location of the site is shown on the Layout Plan attached. The contractor's site camp will be situated within ACSA's premises and shall be indicated at the site clarification meeting.

C3.1.5 TEMPORARY WORKS

The Contractor shall obtain written permission from the Employer's Agent before construction of any temporary works may commence. Temporary works will include the following:

- (a) Where applicable (in limited occupation areas), transverse and longitudinal ramps at the end of each shift during construction of the asphalt overlays on the roadways.
- (b) Signage and markings for the surface movement of vehicles.
- (c) Placing and removal of barricades where required.
- (d) All facilities within the Contractor's construction camp. The design shall comply with the specifications, where provided in these documents and all statutory requirements such as the Occupational Health and Safety Act and Regulations. The area is to be reinstated upon completion.
- (e) Access roads for the construction camp and temporary material stockpile site. These roads are to be designed, constructed and maintained by the Contractor to comply with safety and environmental requirements. They must be reinstated upon completion of the Works.
- (f) The Contractor shall ensure uninterrupted water supply to all critical airport facilities for the duration of the works.
- (g) Where shutdowns are unavoidable, these shall be planned, approved by the Engineer and ACSA, and executed outside of peak operational hours.
- (h) Temporary bypass pipework, valves, and connections required to maintain water supply shall be provided, installed, maintained, and removed by the Contractor at no additional cost.

C3.2: ENGINEERING

C3.2.1 DESIGN SERVICES AND ACTIVITY MATRIX

The responsibilities for design and related documentation are as follows:

| DESCRIPTION | RESPONSIBILITY |
|---|---|
| Detailed design for construction | Employer's Agent's Representative |
| Temporary works (Section C3.1.5): Items a) to b) Items c) to e) and any other temporary works required by the contractor | Contractor |
| As-built drawings: Provision of data and marked up drawings Preparation of drawings | Contractor Employer's Agent's representative |

C3.2.2 EMPLOYER'S DESIGN

The extent of the Employer's design is shown on the construction drawings.

C3.2.3 CONTRACTOR'S DESIGN BRIEF

The design brief for Temporary Works is provided in Section C3.1.5.

C3.2.4 DRAWINGS

Drawings are not required for the Temporary Works and will be designed by the Contractor.

The reduced drawings that form part of the tender documents shall be used for tender purposes only. The Contractor will be issued with an A3 paper copy and PDF file of each of the drawings required for construction. The Contractor shall, at his own expense, produce all further prints required for the construction of the Works.

The Contractor shall not use the drawings for any purpose other than the execution of the works.

Only figured dimensions on the drawings shall be used, and drawings shall not be scaled. The Employer's Agent shall supply any figured dimensions which have been omitted from the drawings.

The Employer's Agent may issue additional drawings as necessary to the Contractor from time to time during the progress of the works. The Contractor shall timeously notify the Employer's Agent of the priority in which drawings and details are required.

Before a Certificate of Completion will be issued, all as-built data must be provided to the Employer's Agent on completion of the Permanent Works. The data must be provided in electronic form (as per the Employer's Agent's format) or where appropriate marked up on a set of drawings. Any information in the possession of the Contractor necessary for the Engineer to complete his as-built drawings shall be supplied to the Resident Engineer on a regular basis and all information must be delivered before a Certificate of Completion will be issued.

The drawings, as listed in Volume 4, form part of the tender documents and shall be used for tender purposes only.

C3.2.5 DESIGN PROCEDURES

Asphalt mixes to be designed in co-ordination with an approved (by the Employer's Agent) specialist professional asphalt design engineer and laboratory and submitted to the Employer's Agent for approval. The design laboratory and specialist asphalt design engineer shall be paid under a Provisional Sum item provided in the Bill of Quantities.

Fundamental design principals and methods (see applicable SABITA, and other applicable institutions, manuals and guidelines) to be utilized to ensure optimal mixes in accordance with the specified performance criteria.

C3.2.6 CONSTRUCTION IN CONFINED AREAS

Working space for some of the work to be carried out under this contract is restricted. The construction method used in these confined areas largely depends on the Contractor's plant. However, the Contractor must note that measurement and payment will be according to the specified cross-sections and dimensions irrespective of the method used, and that the rates and prices tendered will be deemed to include full compensation for difficulties encountered while working in confined areas.

C3.3: PROCUREMENT

C3.3.1 PREFERENTIAL PROCUREMENT PROCEDURES

The Works shall be executed in accordance with the requirements specified in Section T1.2, Tender Data (Clause F3.11) and submitted by the Contractor in his Returnable Schedules.

C3.3.2 SUBCONTRACTING

(a) Scope of Mandatory Subcontract Works

The Mandatory Works to be subcontracted are:

- Nil

(b) Preferred Subcontractors

The Employer reserves the right to identify or recommend preferred subcontractors for specialist portions of the Works.

(c) Subcontracting Procedures

The Contractor shall not subcontract any portion of the Works without prior written approval from the Employer/Engineer. Approval of a subcontractor shall not relieve the Contractor of any obligation or responsibility under the Contract. All subcontractors shall comply with:

- CIDB registered contractors in accordance with the subcontracting procedures set out in the General Conditions of Contract,
- Particular Specifications,
- Occupational Health and Safety requirements,
- Environmental requirements,
- ACSA operational and security requirements,
- and all applicable statutory regulations.

(d) Attendance on Subcontractors

The Contractor shall provide any necessary facilities in order to manage the specialist electrical subcontractor to ensure that the works are carried out in accordance with:

- The programme of works, and
- The contract requirements, and
- In the Project requirements concerning access to and from the airport facilities at the beginning and end of working shifts. He shall also ensure that the subcontractor complies with the requirements of the Safety Plan, Environmental Management Plan and Operational procedure requirements.

C3.4: CONSTRUCTION

C3.4.1 WORKS SPECIFICATIONS

(e) Applicable Standard Specifications

The Standard General and Technical Specifications for Civil Works shall be the COTO - Standard Specifications for Road and Bridge Works or South African Road Authorities 2020.

The Standard Specifications forming part of this contract have been written to cover all phases of work usually encountered on road and bridge contracts and may therefore cover items of work not encountered in this Project contract.

The Contractor is responsible for ensuring that he is thoroughly familiar with all the amendments and corrections before submitting his tender.

(f) Applicable National and International Standards

The Works must comply with certain National and International Standards. These include:

- ICAO
- SANS (SABS)

Where required, compliance with these and other National and International Standards have been specified in the Standard and Project Specifications.

(g) Project Specifications

In certain clauses, the Standard Specifications allow a choice to be specified in the Particular (Project) Specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a Contract. Details of such alternatives or additional requirements applicable to this Contract are contained in the Particular (Project) Specifications (C3.6 Civil Works). It also contains some additional specifications required for this Contract.

(h) Certification by Recognized Bodies

Where required, South African Bureau of Standards (SABS) must undertake the certification of items for inclusion in the Works.

C3.4.2 PLANT AND MATERIALS

(a) Plant and Materials supplied by the Employer

Nil

(b) Materials, Samples and Shop Drawings

Where required, requirements for proof of compliance with materials specifications, submission of samples of materials and finishes and requirements for shop drawings, are stated in the standard or project specifications. This will also apply to the subcontracts.

All materials used in the works shall, where such mark has been awarded for a specific type of material, bear the official mark of the SANS (SABS). Written proof shall be obtained from the Employer's Agent for any materials not bearing the official mark of the SANS.

C3.4.3 CONSTRUCTION EQUIPMENT

(a) Requirements for Equipment

The Contractor shall provide all plant and equipment necessary for the safe and efficient execution of the airside service road rehabilitation works at the Airport and shall ensure that all equipment is suitable for operation within an active airport environment.

All construction equipment shall:

- be appropriate for pavement rehabilitation, compaction, drainage improvement, and associated service road works;
- be maintained in a safe, roadworthy, and fully operational condition;
- comply with all applicable statutory requirements, Occupational Health and Safety requirements, and ACSA airside operational requirements;
- be fitted with suitable warning lights, fire extinguishers, spill containment kits, and any other safety equipment required for airside operations;
- be free from oil leaks, excessive smoke emissions, and other conditions that may create Foreign Object Debris (FOD), environmental contamination, or operational hazards;
- only enter operational areas with the necessary permits and approvals; and
- operated only by competent, trained, and authorized personnel.

The Contractor shall ensure that equipment movements within the airport environment are strictly controlled and coordinated to prevent interference with airport operations. Equipment parked on Site shall be secured and positioned only within approved work areas.

The Engineer may instruct the Contractor to remove from Site any equipment considered unsafe, unsuitable, non-compliant, or likely to interfere with airport operations. Compliance with such instruction shall be at the Contractor's cost and shall not entitle the Contractor to additional payment or extension of time.

The Contractor shall provide sufficient standby equipment and resources to ensure continuity of the Works and compliance with the approved construction programme.

All costs associated with the provision, mobilisation, operation, maintenance, fuelling, licensing, cleaning, protection, and removal of construction equipment shall be deemed included in the Contract Rates and Prices.

(b) Equipment Provided by the Employer

Nil

C3.4.4 EXISTING SERVICES

Specifications related to existing services are provided in the Project Specifications (Section C3.6; Clause A2.1.3)

C3.4.5 SITE ESTABLISHMENT

i. Services and Facilities Provided by the Employer

The location of and access to a proposed construction camp will be provided to the Contractor. Approval for the establishment of a construction camp must be obtained from ACSA. The Contractor is responsible for all timely arrangements for obtaining all necessary approvals,

establishment and subsequent removal and reinstatement of his construction camp. Note that services for water, sewer and electricity will not be free of charge, and the utilization of these services will be at the expense of the Contractor.

Other contractors may in part also use the proposed area. The Contractor must at all times limit his personnel, plant, equipment and materials at the Contractor's site or the working areas as approved by the Employer's Agent. No personnel shall be accommodated on airport property. Only guards approved by the Employer and on duty may be on site at all times. The Contractor shall only use the designated gate(s) for access purposes to the airside.

The area designated by the Employer's Agent can be used for stockpiling material for use in the works and for temporary parking of plant and equipment. This location is to be confirmed by the Employer.

All applicable regulations and local authority ordinances relating to smoke emissions and noise abatement shall be adhered to, and compliance will be strictly enforced. This includes adherence to height restrictions and the installation of any required obstacle markers.

Also refer to the requirements of Clause 3 of the **Procedure Manual for Working Airside (Volume 5)**.

ii. Facilities Provided by the Contractor

The requirements for facilities to be provided by the Contractor for use by the Employer and his agents such as office, ablution and laboratory facilities are stated in Part C3.6, Section A1.4.7.1.

The Contractor shall make his own arrangements for the supply of electrical power, water (see Clause A1.3.3), telecommunication services, ablution facilities, sewer services, first aid facilities and other services, the payment thereof and all reinstatements required upon completion. No direct payment will be made to the Contractor for the provision of electrical and other services. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

The Contractor will be required to erect a security fence around the construction camp and temporary parking area for plant and equipment. The cost thereof is regarded to be included in the relevant rates for establishment on site.

The storage of fuels in tanks may be kept in the Contractor's camp subject to the regulations of the Airport authorities that require a berm or wall around the installation sufficient to retain the capacity fuel of the tanks.

The Contractor shall make his own arrangements for telephone and facsimile facilities. Cellular phones will be acceptable, but the Contractor must obtain airside permits from ACSA at his own cost.

iii. Storage and Laboratory Facilities

The Contractor shall make a storage room available for use by the Employer's Agent's staff. A commercial laboratory shall undertake material testing for the Employer's Agent.

iv. Other Facilities and Services

The Contractor shall be responsible for the removal of all waste generated from the airport property and the proper disposal thereof elsewhere at his own cost.

If required by the Employer's Agent, the Contractor shall supply portable chemical toilet facilities next to the construction site for his staff as well as for the Employer's Agent's supervisory staff. These facilities must be erected and removed on a daily basis and regularly serviced to the satisfaction of the Airport Authorities and the Employer's Agent.

v. Vehicles and Equipment

The requirements (e.g. permits, etc.) for vehicles and drivers operating on the airside at Bram Fischer International Airport are specified in the Procedure Manual for Working Airside (Volume 5). The responsibility will however remain with the Contractor to ensure that all necessary requirements are met to bring any vehicles and equipment on site.

vi. Advertising Rights

Only one sign board for the Contractor and his subcontractors may be erected at the entrance to the construction camp. Also refer to Chapter 1, Part C1.3(COTO)and Item C1.3.2 of the Project Specification (C3.6).

vii. Notice Boards

A construction notice board complying with the SAICE specifications must be provided and erected at a position to be agreed with the Employer's Agent. The cost of the supply and erection of this notice board must be included in the establishment cost of the Contractor. Also refer to Chapter 1, Part C1.3 and Item C1.3.2 of the Project Specification (C3.6).

C3.4.6 SITE USAGE

Restrictions on the site usage are stated in the Procedure Manual for Working Airside (Volume 5).

C3.4.7 ALTERATIONS, ADDITIONS, EXTENSIONS AND MODIFICATIONS TO EXISTING WORKS

The Contractor must satisfy himself that the dimensional accuracy, alignment, levels and setting out of existing components are compatible with the proposed Works. Where this is not the case the Employer's Agent's Representative must be notified in writing at the earliest possible time.

C3.4.8 WATER FOR CONSTRUCTION PURPOSES

The Contractor must make all arrangements for the transport, storage and distribution of water required for construction purposes and for his own use and at his own cost (allowed for in the relevant tendered rates). Alternatively, water can be purchased from ACSA at a prescribed rate. Refer to Item A1.2.3.21 for further details.

C3.4.9 SURVEY CONTROL AND SETTING OUT OF THE WORKS

The Contractor shall place beacons in concrete, marked and certified by a professional land surveyor. Beacons shall be check-levelled during construction to confirm the accuracy when instructed by the Employer's Agent. Refer to A1.2.7.2 for further details.

C3.5: MANAGEMENT

C3.5.1 MANAGEMENT OF THE WORKS

(a) Planning and Programming

The Contractor's programme must be based on the interim milestone dates for completion specified in Table C3.5.1 below and the Working Times defined in the **Procedure Manual for Working Airside (Volume 5)**. Penalties will be imposed if these Interim Milestone dates are not achieved. Refer to Section C1.2 (contract Data), Sub-clause 5.13.1.

Table C3.5.1: Interim Milestone Dates

| Milestone Event | General Description of Work | Milestone Completion Indicative Only |
|---|---|--------------------------------------|
| Service Roads and Airside Roads (Portion A, B and C) | Completion of all rehabilitation, surfacing, paint marking, replace grid inlets and road signages | 30-Nov-27 |
| New Access Roads | Completion construction of new pavement layers, drainage, surfacing, paint marking and road signs | 31-Nov-27 |
| Replacement of damaged Concrete Panels in Front of Fire and Rescue | Completion of replacing damaged concrete panels, paint marking and road signs | 30-Jun-27 |
| Drainage and ancillary work | Completion of all new drainage and maintenance of existing where necessary | 17-Sep-27 |
| Upgrading domestic and fire water system | Completion of all installation, testing and commissioning | 30-Nov-27 |
| Note: All indicative dates are to be used as a guide for sequencing of works. Final construction programme to be submitted by appointed contractor for approval by ACSA and engineer. | | |

(b) Sequence of the Works

The sequence of the Works will be determined by the logical order of activities as illustrated in the specified Interim Milestone dates in Table C3.5.1. It is important to note that:

- (a) The contractor shall also allow time in its programme for trial sections of the asphalt mixes and stabilised layers (cemented stabilised).
- (b) Some non-critical activities can be done in a different phase to those highlighted in TABLE C3.5.1 as long as that approval has been obtained from AM and subject to availability of escort from ACSA.
- (c) A minimum of seven (7) days advance notice from the contractor is required to switch between work areas.

(c) Methods and Procedures

The methods and procedures that must be complied with are contained in Volumes 2, 3, 4 and 5 of the contract documentation. These include but are not limited to:

- Methods and Procedures in the Standards Specifications (Volume 2, COTO).
- Civil Works Methods and Procedures in the Project Specifications (C3.6).
- Occupational Health and Safety Specifications (C3.7.1).
- Environmental Work Instructions (C3.7.2).
- Manual of Procedures for Working Airside (Volume 5).

(d) Quality Plans and Control

The requirements for Quality Plans and Control are stated in Section A1.2.8 of the Project Specification (C3.6).

(e) Construction Method Statement

Within 14 days of the Commencement Date the Contractor shall submit a Construction Method Statement to the Employer's Agent for approval by the Employer. Once approved, this Statement will form part of Appendix C of the Procedure Manual for Working Airside (Volume 5). No work on the airside will be allowed until the Employer has approved this Construction Method Statement.

The Method Statement shall include:

- i. All measures to be implemented to comply with the requirements of the Procedure Manual for Working Airside (Volume 5).
- ii. All measures to be implemented to comply with the requirements of the OHS Act.
- iii. A contingency plan to deal with interruptions of shifts by inclement weather, plant breakdowns or emergency closures of the work areas.
- iv. Measures and equipment that will be used on site to limit the ingress of water into the excavations and to remove rainwater from the excavations.
- v. Measures to protect services (above and below surface) during construction.
- vi. Procedures to ensure that the whole work area is safe before removing staff or handing over of the site at the end of each work shift.
- vii. A watchman to remain on site of excavations/construction with telephone contact to the contract manager in case of emergency.

The cost of complying with the ACSA approved method statement is deemed to be covered by the tendered rates for the Contractor's General Obligations.

(f) Environment

Environmental requirements are specified in ACSA Specifications (Section C3.7.2)

(g) Accommodation of Traffic on Roads and Accesses used by the Contractor

ACSA staff and other stakeholders will also use the access road to the construction site and camp. It is therefore a requirement that the Contractor coordinate with all stakeholders on a daily basis (to be recorded at the daily meeting) on the usage of the roads by the Contractor's vehicles and construction equipment.

(h) Testing, Completion, Commissioning and Correction of Defects

Procedures for testing, completion, commissioning and correction of defects will be provided to the Contractor by the Employer's Agent on site.

(i) Recording of Weather

The Contractor shall provide an electronic mobile weather station. He shall erect them according to the requirements of the weather bureau. The Contractor shall record and keep a record of the daily rainfall and maximum/minimum temperatures and supply the data to the Employer's Agent on a daily basis.

The Contractor shall also record wind speed measurements on site as agreed with the Employer's Agent's Representative. Data can also be obtained from the local weather bureau but has to be recorded on site on a daily basis.

The cost of complying with these requirements is deemed to be covered by the tendered rates for the Contractor's General Obligations.

(j) Format of Communications

All instructions or requests need to be confirmed in writing through:

- Site instructions.
- Requests for inspections.

(k) Key Personnel

The Contractor, Employer's Agent and Employer must compile a schedule of their Key Personnel with their contact numbers and keep it updated as per requirements for the contact list in Volume 5 – Procedure Manual for Working Airside. The list must be made available to the Employer's Agent, Employer and Contractor.

(l) Management Meetings

The following meetings shall be held at the site camp facilities:

- Daily kick-off meeting,
- Weekly progress meeting,
- Monthly site meeting (Date and time to be agreed by attendees)
- Monthly technical meeting (Date and time to be agreed by attendees).

The representatives must have the necessary delegated authority in respect of aspects such as planning, change management and health and safety.

(m) Daily records

The Contractor must keep daily records of resources (people and equipment employed) and site diaries in respect of work performed on the site. A copy of the previous day's daily record must be provided to the Employer's Agent on a daily basis.

(n) Bonds and Guarantees

Original copies of the bonds and guarantees must be lodged at the office of ACSA, Bram Fischer International Airport and one copy of each must be kept on site with the Employer's Agent's representative. On release, the bond and guarantees can be collected from ACSA.

(o) Payment Certificates

The Employer's Agent's certificate will be issued only after receipt by him of a draft certificate prepared by the Contractor at his own expense in the form prescribed by the Employer's Agent. The cost of duplicating and delivering copies of the certificate to the Contractor, the Employer's Agent and the employer shall be borne by the Contractor. The Employer's Agent and the employer shall require three (3) sets of A4-sized paper copies in total.

(p) Permits

All requirements in connection with the application for and usage of permits are stated in the Airside Manual (Volume 5) and Chapter 1, C1.2 General Requirements and Provisions, A1.2.3.7 (Project Specification C3.6).

(q) Insurance Provided by the Employer

For information on the Employer Insurance, refer to special Clause 8.6 Section C1.2.

C3.5.2 HEALTH AND SAFETY

(a) Health and Safety Requirements and Procedures

Health and Safety requirements and procedures are presented in Annexure B, Section C3.7.1.

(b) Barricades and lighting

Requirements for the provision and usage of barricades and lighting are stated in **Volume 5** and **Chapter 1 of the Standard Specifications**.



AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

C3.6: PARTICULAR (PROJECT) SPECIFICATIONS: CIVIL

General note: The Standard Specifications as well as the Particular (Project) Specifications refer to the 'Engineer' whereas the General Conditions of Contract for Construction Works, 2015, Third Edition, (GCC 2015) refer to the 'Employer's Agent'. In all cases where reference is made to the Engineer in the Standard Specifications or the Project Specifications, it shall have the same meaning as the Employer's Agent as defined in the General Conditions of Contract.

SECTION A: SPECIFICATION AMENDMENTS

SECTION A1: STANDARD AMENDMENTS ISSUED BY COTO

Notes to Tenderer:

1. The Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard October 2020 edition) prepared by the Committee of Transport Officials, (COTO), as amended, shall apply to this contract. The amendments are those issued by COTO and reproduced in Section A1, together with additional amendments as set out in Section A2 and Project specific Specification Data as set out in Section B.
2. As to February 2023, no amendments have been issued by COTO.

SECTION A2: PROJECT SPECIFICATION AMENDMENTS TO THE COTO STANDARD SPECIFICATIONS

Notes to tenderer:

1. This Section A2 contains amendments to the Standard Specification, including additional clauses, amendment to clauses or deletion of clauses and specifications, required for this particular contract. Where the Standard Specifications allow a choice to be specified in the Contract Documentation or Project Specifications, between alternative materials or methods of construction, and for additional requirements to be specified to suit a particular contract, these selections are not made in this Section A2. Details of such alternatives or additional requirements applicable to this contract are contained in.

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COTO CHAPTER 1: GENERAL

SECTION 1.1: GENERAL PREAMBLE

PART A: SPECIFICATIONS

A1.1.2 DEFINITIONS

*Add the following definitions and terms to Section A1.1.2 of the Standard Specifications:
(Also refer to the definitions provided in the Airside Manual – Volume 5):*

CARRIAGEWAY – "Means the surfaced portion of the roadway provided for the passage of vehicles"

ROAD PRISM – "The road prism shall also mean the prism of the roadways, taxiways and aprons."

AIRPORT ROADS – Airport roads are defined by a network of public and non-public roads within the airport boundary providing access to the various airport buildings or areas.

AIR TRAFFIC – Means all aircraft in flight or operating on the manoeuvring areas of an aerodrome.

CONTROL TOWER – Means an air traffic control unit established to provide an air traffic control service.

INTERNATIONAL CIVIL AVIATION ORGANISATION (ICAO) – Means a specialised agency of the United Nations with a membership of 183 Contracting States as of August 1994.

LANDING AREA – Means that part of a movement area intended for the landing or taking off of aircraft.

PARTY, PARTIES AND THIRD PARTY – 'Party' and 'Parties' means the Client and the Consultant, and 'Third Party' means any other person or entity as the contract requires."

PART C: MEASUREMENT AND PAYMENT

C1.1.3 PAYMENT

Add the following paragraph to the Clause C1.1.3.2:

“VAT shall be excluded from the rates and added as a lump sum to the total value of work measured for payment.”

Add the following subclause

C1.1.3.5 Payment for materials on the Site

In the last sentence of the 1st paragraph, delete the following:

“, or, in the case of crushed stone which has not been purchased but has been produced on the site, at 80% of a fair evaluation of such crushed material.”

Add the following new subclauses:

C1.1.3.9 Reduced payments for substandard work

Where provision for reduced payments for substandard work is made in the Contract Documentation, acceptance of reduce payment for substandard work may be accepted by the Engineer subject to prior approval by the Employer.

C1.1.3.10 Rates to remain unchanged when scope of work changes

Dependent on the rates and prices offered in the Pricing Schedule, the Employer intends to increase or reduce the scope of work to match the budget allowed for this project. To this end the Contractor has been provided the opportunity to price separately for unit rates of work and the establishment of major plant. The value of such increase or reduction in the scope of works shall not give cause for the Contractor to vary the offered rates and prices, which shall remain final and binding for the duration of the contract, provided that:

- (i) Notification of the change to the scope of work is given in writing within 28 days of the tender closing date.
- (ii) The value of the increase or reduction in the scope of work does not alter the tendered sum by more than 20%.

C1.1.3.11 Procurement of sub-services and omitted rates (Second tier procurement)

Second tier procurement include the procurement of any work where either the particulars of the work is not scheduled and priced, or where the process of procurement of the sub-service provider is specified elsewhere in the contract specification. It include the procurement of work where rates have been omitted or where allowance for the work is made under a Provisional sum or Prime sum item or where allowance for the work is made under a Provisional sum or Prime sum item but the particulars of the work is not scheduled, or where work is instructed under clause 13[Variations and Adjustments] or where work is to be performed by Targeted Enterprises.

The following procurement methods is to be followed as appropriate:

- a) **Where the particulars of the work is not scheduled but existing rates for similar work exist in the contract and the work can therefore be executed by the contractor or his sub-contractor at the existing contract rates.**

No separate procurement process is required. The work is to be quantified and scheduled utilising existing rates and approved through the Variation Order Authorisation process.

- b) **Where the payment calculation is based on a formula specified in the contract document, or where the payment rate is pre-determined or fixed by the client.**

No separate procurement process is required. The work is to be quantified and approved through the Variation Order authorisation process.

- c) **Where the supplier is not selected by the contractor and actual cost is reimbursable and/or no procurement process is possible.**

No separate procurement process is required. The work is invoiced by supplier on completion and approved through the Variation Order Authorisation process at the end of the contract.

- d) **Where there are omitted items as part of the existing scheduled scope of work and no existing rates for similar work exist in the contract, or where there are no existing rates for the materials to be supplied and suitable rates for material to be determined.**

A proposal for a new rate shall be submitted by the contractor and evaluated by the engineer, by comparing with either adjusted relevant rates in the contract, or by comparing with similar rates on similar contracts, or by comparing three informal quotes to substantiate the rate. The new agreed rate is approved through the Variation Order Authorisation process.

- e) **Where the particulars of the work are not scheduled and the estimated cost of the work (including VAT and excluding Contract Price Adjustment) is equal or less than R1,000,000.00 and there are no existing rates for similar work and the contractor's proposal submitted is not accepted and the work is to be performed by a sub-contractor. The employer may source alternative quotes.**

A minimum of three quotations shall be obtained from Targeted Enterprises). The following is the minimum requirements for this process:

- Prequalification for BEE level 1 or 2 and EME or QSE (Approval to deviate must be granted by the Employer, based on market research)
- Quotation to include form of quotation, CSD registration, CIDB (where applicable),

A Variation Order shall be approved prior to execution of the work.

- f) **Where the particulars of the work is not scheduled and the estimated cost of the work is more than R1,000,000.00 (including VAT and excluding Contract Price Adjustment) and there are no existing rates for similar work and the contractor's proposal submitted is not accepted and the work is to be performed by a sub-contractor.**

The work is to be procured through a tender process. The following is the minimum requirements for this process:

- Prequalification for BEE level 1 or 2 and EME or QSE (Approval to deviate must be granted by the Employer, based on market research)
- Tenders to close at the relevant site offices at a specific date and time
- Tender documents to include form of Offer, CSD registration, Tax compliance, CIDB (where applicable), SBD1, SBD 4, SBD 6.2, BEE certificate, Form A2.2
- Tenders to be evaluated on price and preference
- Evaluation by contractor for review by engineer

A Variation Order shall be approved prior to execution of the work.

g) **Where the particulars of the work is identified by the contractor to be performed by subcontractors who are Targeted Enterprises to form part of the specified Contract Participation Goals for Targeted Enterprises.**

- The work is to be procured as per the process specified through the community engagement process involving the CLO.
- If equal or below R1,000,000.00 – process must include the minimum requirements as indicated in e) above.
- If above R1,000,000 – process must include the minimum requirements as indicated in f) above.

h) **Where the work is unforeseen, urgent and the relevant procurement method as indicated above will result in a delay to the contract and payment for a claim for extension of time and/or cost, or where the above procurement methods are not applicable or cannot fully be complied with.**

“The Employer will determine the most appropriate procurement process to be followed and approved through the Works Authorisation process.”

A1.1.2 GENERAL CONDITIONS OF CONTRACT

Add the following:

In the event of any conflict or inconsistency between the definitions contained in this Standard Specification and those contained in the Contract, including the General Conditions of Contract, the Contract Data and the Special Conditions of Contract, the definitions and terminology contained in this Contract shall prevail.

For the avoidance of doubt, the Contract Data and Special Conditions of Contract shall take precedence over the General Conditions of Contract and collectively shall take precedence over the Standard Specifications.

SECTION 1.2: GENERAL REQUIREMENTS AND PROVISIONS

PART A: SPECIFICATIONS

A1.2.3 GENERAL

A1.2.3.4 Extension of time for delays caused by rainfall and delays caused by actions of airport authorities.

Delete the entire clause and replace with the following:

Change the existing heading of clause A1.2.3.4 to read as above and make the following changes to b) *Method 2 (Critical-path method with consequential delays)* which will apply to this Contract:

Add the following as a new paragraph:

“Extension of time resulting from abnormal rainfall, very cold weather or other forms of inclement weather shall be calculated according to the requirements of Method 2 (Critical-path method). The value of “n” working days per calendar month as specified in this clause shall be as given in Table A1.2.3.4/1 below. If no abnormal rainfall or other inclement weather periods occur during a specific calendar month (or months), the n-values as specified shall not be taken as accumulating over the contract period. If the “n”-days allowed for in the programme of work are not taken up by standing time due to abnormal rainfall or inclement weather conditions, they will fall away and will not be considered in extension of time claims that may arise later during the contract period.

Table A1.2.3.4/1: Average delays due to inclement weather ('n')

| c | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Tot |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Inclement Weather Delays | 10 | 10 | 9 | 6 | 3 | 2 | 1 | 2 | 3 | 6 | 7 | 9 | 68 |

Rain days allowed used >5mm days but has been adjusted to meet expected normal days worked per month as well as public holidays and normal December shut down as well as limited inclusion of days for <5mm.

The value 'n' is the average number of days on which it is expected that there will be inclement weather at Bram Fischer International Airport.

The Engineer's Representative will certify a shift loss due to cold weather, abnormal rain or adverse weather conditions based on the following criteria:

- (i) No work was possible during the relevant shift on any item which is on the critical path according to the latest approved construction programme, given that sufficient temporary drainage of work areas was provided, or if
- (ii) Less than 50% of the work force and plant planned for that specific shift could work.

Actual extensions of time due to inclement weather shall be agreed between the Engineer's and Contractor's representatives on the site. The agreed shifts or parts thereof shall be recorded at the bi-weekly site meetings and adjustments made to the contract period on a bi-weekly basis by extending the contract period according to the number of shifts lost less the allowance 'n'. At the end of the contract, the Engineer shall prepare a variation order to formalise the payment of the accumulated delays in excess of the allowance due to inclement weather.

Extension of time resulting from delays during shifts caused by operations of the Airport shall be allowed for in the contractor's programme. The number of working days to be allowed for in the Contractors programme is 20 days for the full contract period. The criteria listed in (i) and (ii) above will also apply

to this extension of time. Losses within the 20 days delay period are deemed to be covered in the rates tendered for the items of work. **No extension of time, with associated costs, will be claimable until such time that the 20 days has lapsed.**

Time lost during shifts shall be agreed between the Engineer's and Contractor's representative on site. The agreed shifts or parts thereof shall be recorded at the bi-weekly site meetings and adjustment made to the contract period on a bi-weekly basis by extending the contract period according to the number of shifts lost less the allowance. At the end of the contract, the Engineer shall prepare a variation order to formalise the payment of the accumulated delays due to Airports operations. Losses for the first half-hour of delay are deemed to be covered in the rates tendered for items of work.

If the approved total extension of time (for delays due to inclement weather and Airport operations) extend the completion date beyond the start of the contractor's holiday in December, the holiday period shall not be considered as working days. Any remaining extension of time at this date shall be calculated from the first statutory working day in January the following year, provided that the contractor has shown in his programme that he intends to close during the traditional Christmas/New Year break."

A1.2.3.10 Notices, Signs and Advertisements

Delete the final paragraph and replace with the following:

"All signboards erected in accordance with the drawings or as approved advertisements for the Contractors establishment, shall be removed at the same time as the Contractors de-establishment. Payment Item C1.3.1 for the final instalment of 15% of the tendered lump sum shall not be made unless all the advertisements, notices and temporary signs have been removed."

A1.2.3.21 Water

Add the following to the first paragraph:

"Water for construction purposes will be made available near the site camp. The contractor will include in his rates for any connections, couplings or a standpipe and will provide a water meter to measure the water used for construction purposes. Water will be purchased from ACSA at R45 per kilolitre. The contractor shall allow in his rates for annual municipal increases. ACSA will invoice the contractor on a monthly basis for use of water. The first municipal water increase will be on 1 July 2023."

Add the following new subclause after A1.2.3.23:

"A1.2.3.24 Reference manuals, other specifications and test methods

In various chapters of this Standard Specification, reference is made to Manuals, other specifications, and test methods. If not otherwise indicated in the Contract Documentation, the latest published Manual, other specifications, and test methods at time of close of tender will apply. Any changes to be implemented on a project as a result of revisions to manuals, other specifications and test methods, will be handled in terms of the Conditions of Contract.

Certain TRH and TMH documents are published as Sabita Manuals/TRH or Sabita Manuals/TMH publications. Where reference is made to the TRH or TMH document, it shall be read as referring to the latest version of the Sabita Manual/TRH publication or Sabita Manual/TMH publication, respectively."

Add the following subclause.

"A1.2.3.25 Contractor's escorts

Escorts will be provided by ACSA to lead the construction team onto site and to serve as official communications port between the construction team and Air Traffic Control or Airport Management. The construction team will not be allowed to enter or operate on the airside facilities unless being escorted by a qualified ACSA escort.

Under special circumstances, the Contractor may be allowed to nominate one or more persons (own site management staff or others) to accept the duties and responsibilities of an escort if and when required by the Employer. The following conditions will apply:

- (a) The nominated person/s (Contractor's escort) need to have passed the applicable training and examination as specified by Airport Management (including induction course, radio communications, etc.).
- (b) The Contractor's escort may only be used if Airport Management is not able to provide the required escort services if and when required by the Contractor. The Contractor needs to be provided with written approval by the Engineer before the Contractor's escort will be allowed to substitute the official airport management's escort.
- (c) The Contractor's escort will not be allowed to leave the site until such time that he has been relieved of his duties by a replacement escort and if approved by Air Traffic Control.

The Contractor will be able to recover the cost of carrying out the duties and responsibilities of the Contractor's escort in the Bill of Quantities. The cost of lights and radio's must be included under Pay Item C1.3.1."

A1.2.7 EXECUTION OF THE WORKS

A1.2.7.1 PROGRAMME OF WORK

(c) Scheme 2

Add the following to the clause:

When drawing up his programme, the Contractor shall, inter alia, take into consideration and make allowance for:

- (i) Working times and all other constraints stated in Volume 5.
- (ii) Requirements of new Clause A1.2.7.6.
- (iii) Expected weather conditions and their effects (Clause A1.2.3.4).
- (iv) Known physical conditions or artificial obstructions.
- (v) The accommodation and safeguarding of public and air traffic.
- (vi) Dealing with, altering and installing services.
- (vii) The work to be undertaken by any sub-contractors. This work must be integrated into the programme of the main contractor.
- (viii) All other actions required in terms of this contract.
- (ix) Interim milestone dates and restrictions on the extent of work areas available at a given time (Section C3.5.1).
- (x) Airside access for “normal hours” working as follows (if required): Monday – Sunday: Sunrise to Sunset (however not to commence before 06:00hrs)
- (xi) Airside access for “after hours” working as follows: Monday – Sunday: 20:00 hrs and Off 04:00 hrs
- (xii) Landside Access for “Normal Hours” working as follows (if required): Monday – Sunday: Sunrise to Sunset (however not to commence before 06:00hrs)
- (xiii) Landside access for “after hours” working as follows: Monday – Sunday: 20:00 hrs and Off 04:00 hrs

The above hours of access to airside may be later due to delayed aircraft etc. In addition, the vacation times on Saturday and Sunday mornings may be extended by 1 hour and 2 hours respectively. For programming purposes, the above times should be adopted.

The following details shall be submitted together with the programme:

- (i) The number of working hours per day, working days per week, assumed holiday or shut down periods on which the programme is based.
- (ii) The overall labour and major plant resource levels on which the programme is based.
- (iii) The detailed traffic and construction equipment accommodation proposals on which the programme is based.

The Contractor shall base his initial programme of work on the scope of the work as described in the Scope of Works and the Bill of Quantities. This programme shall be reviewed on a regular basis by the Contractor in accordance with changing circumstances, delays and amendments to the work ordered by the Engineer as a result of further examinations made by him.

Minor revisions to the approved programme may be introduced from time to time by mutual agreement between the Contractor, and the Engineer. Should the Engineer believe that a major revision of the programme is required, the Contractor will be notified in writing and a revised programme shall be submitted within two weeks of receipt of such a notification.

It should be noted that it is in the Contractor's interest to provide a comprehensive programme giving as much information as possible about the times allowed for the various activities as well as resources or other limitations affecting the programme, since the approved programme may be used to evaluate any claims in terms of the General Conditions of Contract for extensions of time.

Monthly Meeting Programme:

The Contractor shall submit to the Engineer, before each monthly site meeting (or whenever instructed) copies of the following:

- (i) The Contract programme with progress charts and programme graphs updated to reflect the actual progress to date.
- (ii) A summary of progress on site over the week preceding the site meeting. The report shall be in the form of a detailed narrative to the Contract programme.
- (iii) Details of activities running late, indicating what steps have been or will be taken to ensure that the work is completed within the specified time.
- (iv) A report on all labour, plant and materials on site.
- (v) An Incident and or Accident Report that is fully detailed.

Weekly Meeting (Fortnightly Rolling) Programme)

This programme will be presented at the weekly meetings and will show the work programmed over the next fortnight. It will be updated weekly. This programme will show the activities planned for each shift in a specific area, and will be subject to correlation with flight-schedules by the Airport Manager. The programme will show actual, projected and previous work.

Add the following subclause:

(e) Safety and Contingency Plan

Within 14 days of award of the contract the Contractor shall draw up and submit a detailed Construction Method Statement addressing i.e. safety and contingency plan to ACSA for approval. Once approved, the Construction Method Statement will form part of the Procedure Manual for Working Airside (Volume 5). The method statement shall include:

- (i) All measures to be implemented to comply with the requirements of the OHS Act (C3.7.1), Environmental requirements (C3.7.2) and the Procedure Manual for Working Airside (Volume 5).
- (ii) A contingency plan to deal with shifts interrupted by inclement weather, construction equipment breakdowns or emergency closures of the work areas.
- (iii) Special measures, such as back-up plant, to be implemented in normal shifts to comply with the specifications.

No work on the airside will be allowed until the Employer has approved the contractor's Construction Methodology Statement.

The cost of complying with the ACSA approved method statement is deemed to be covered by the tendered rates for the contractor's general obligations.

The scope of work requires the temporary closure of certain facilities on the airside. The closure of any facilities and the period of such closures shall be arranged with the air and surface traffic control authorities. Minimum notification periods are included in Volume 5.

A1.2.7.2 Setting out of the Works and the protection of beacons

Add the following to this clause:

"In order to comply with Clause A1.2.7.2 of the Specification the Contractor shall contract or employ a professional land surveyor and supporting team who will check the reference and level beacons. Agreement shall be reached with the Engineer on the values of the beacons to be used. It is the Contractor's responsibility to maintain and protect all reference beacons."

"There are a limited number of official reference and level beacons on the airport. Where necessary the Contractor shall place additional reference beacons on all sides of the work areas for accurate setting out and levelling purposes. These beacons shall be placed in concrete, marked and certified

by a professional land surveyor. Beacons shall be check-levelled during construction to confirm the accuracy when instructed by the Engineer.”

“All existing paint markings shall be accurately referenced and recorded prior to the commencement of any excavation, milling, or construction activities to enable the correct reinstatement and setting out of markings following completion of the overlay works.

The setting out of all final paint markings shall be undertaken strictly in accordance with the approved drawings and specifications provided. The Contractor shall verify all paint marking positions on site, and such positions shall be checked and approved in writing by the Resident Engineer prior to the final application of the road markings.”

Add the following new clauses:

A1.2.7.6 Project criteria and requirements at operational airports

Note the special Safety Regulations in Volume 5 will strictly apply to this Contract. In the case of conflict with the following clauses Volume 5 will supersede this section.

Where work has to be executed on or in the vicinity of an operational airport, such work shall be subject to various special conditions and regulations as listed below in order to guarantee and safeguard the operation of the airport at all times.

The following criteria should be borne in mind when the programme is compiled

(a) Airport management and air traffic control responsibilities

The Airport Manager (AM) and the Air Traffic Controller (ATC) are ultimately responsible for the safe and efficient operation of the airport.

The AM or designated representative will in his official capacity have authority to give the Contractor verbal or written orders on matters concerning the operation, security or safety of the airport and the Contractor shall, after having informed the Engineer of the orders, carry out the instructions as if issued by the Engineer.

The ATC is responsible for the safe movement of all aircraft traffic, both in the air and whilst on the ground. The ATC shall at all times have absolute authority regarding the movement of any construction personnel, vehicles or equipment, where such movement takes place within the obstruction free areas of existing facilities, or may affect the safe movement of the air traffic, and his instructions shall be implicitly obeyed. The ATC’s decision regarding the acceptability and programming of the Contractor’s activities within the above-mentioned areas shall be taken into account and may result in reprogramming of work, where considered necessary.

All liaison with the AM or ATC shall be arranged through the Engineer and the Contractors Traffic Safety Officer.

(b) Radio communication on the airport

Refer to Clause 14 of Procedure Manual for Working Airside Volume 5.

Two handsets must be provided to the Engineer for this purpose and must be handed over in a working condition to the Employer at the completion of the Contract. The Contractor’s traffic safety officer and the Construction Manager shall complete a radio operator’s basic course at ACSA before commencement of the works. The Contractor shall be responsible for any maintenance costs, damages or loss of these sets. Payment Item C1.2 shall be deemed to include all costs of the Contractor in this regard (including training of relevant personnel).

(c) Airport security

Refer to Clause 16 of Procedure Manual for Working Airside Volume 5.

(d) Movement on the airport

Refer to Clause 17 of Procedure Manual for Working Airside Volume 5.

The crossing of any operational facility on the airport will require special control as ordered by the ATC or the airport manager and will be limited to pre-determined points as indicated on the drawings or instructed by the Engineer. The required controls may include any of the following:

- (i) Unrestricted crossings used by the Contractor should be linked with a pre-warnings system that notifies the Contractor that the facility will be required for airport use within a certain period after notification.
- (ii) Flagmen at crossing points, allowing movements across the facility whenever aircraft traffic permits.
- (iii) Radio controlled crossing points, where movements across the facility may only take place after receiving clearance from the ATC.

(e) Additional requirements regarding construction activities

- (i) Identification numbers

All construction vehicles and self-propelled equipment to be utilised within the airport security area shall be fitted with a boldly displayed identification number (minimum dimension 600 mm, line thickness 75 mm) on a white background on either side of the vehicle or equipment. A record of all identification numbers and related vehicles shall be available at all times for perusal by the authorities or the Engineer. The cost for providing and using these identification numbers must be included under Pay Item C1.3.1.

- (ii) Crossing points

The surface of existing facilities at crossing points shall be absolutely clean whenever aircraft uses them. This will require the full-time presence of a cleaning team at such crossings to remove all debris, stones or other material from the surfaces. The Contractor shall be responsible for any damage to aircraft or other equipment as a result of failure to comply with this requirement.

- (iii) Barricades, lights and markings

The Contractor shall provide, erect, maintain, move and finally remove temporary barriers, fences and markings all as prescribed by the airport authorities or as shown on the drawings. The work shall include the placing of temporary barriers where roadways have been closed as well as lights at these points to facilitate night-time interpretation of the situation. It may also include the painting of markings and the final removal thereof.

- (iv) Dust and pollution

The Contractor shall control dust in all working areas, at borrow pits and on haul roads to the satisfaction of the airport authorities. No pollution from machines, batching plants, mixers, workshops or other sources (such as the breaking up of existing work) will be tolerated. Fires may only be lit after the Contractor has obtained written permission from the airport authorities who will also supervise the fires.

The Contractor shall keep the entire site of the works, including his own camp site, in a neat and clean condition to the satisfaction of the airport authorities.

(v) Windrow of material

During the improvement of side strips and associated works, material may be temporarily windrowed outside the active work areas. No windrows shall be permitted within **37.5 m of the roadway edge** or within any designated intersection or access control zones. All windrows shall be controlled and maintained such that their height does not exceed the applicable **ACSA maximum obstacle height restrictions**, and shall not create any hazard to vehicular traffic, roadside safety, or adjacent infrastructure. The Contractor shall continuously manage, reshape, or remove windrowed material as required to maintain compliance with operational safety requirements and to prevent interference with traffic flow, drainage, or visibility.

(f) Traffic safety officer

Refer to Clause 9.8 of Volume 5.

A traffic safety officer shall be appointed by the Contractor. This person shall be a senior member of the site management team who has been duly authorised to perform his duties on his own initiative and to exercise control over others. He must also complete a communications training course successfully at the Airport Control Centre after which a license will be issued to him. He shall be on site full-time during the execution of the works and general site safety shall at all times be his first priority. The traffic safety officer shall liaise directly with the Engineer, airport control and air traffic control regarding matters related to safety.

In addition to the tasks specified in the Airside Manual the traffic safety officer will also be required to perform the following duties and this list shall not be deemed to be complete:

- (1) Responsible for keeping the traffic requirements up to specification 24 hours a day, 7 days a week.
- (2) Inspect and report to the Engineer on the state of all required signs and marks (and all traffic accommodation facilities) as often as the Engineer may require but, in any event not less than twice a day.
- (3) Responsible for exercising control over the safe movement of personnel vehicles and plant on site according to the instructions of air traffic control.
- (4) Attend to the training and performance of flagmen and all other personnel involved in the control of traffic.
- (5) Responsible for compliance with prescribed measures at aircraft crossings.
- (6) Responsible for compliance to air traffic controller's instructions.
- (7) Responsible for daily final inspection of work areas prior to re-opening thereof.

(g) Provision of Permits

The Contractor shall note that it is a condition of the contract that he applies for and obtains the required permits for all persons, equipment and vehicles to be utilized during the construction of the planned works. Refer to Clause 17.2 of the Airside Manual (Volume 5).

The onus shall be on the tenderer to verify these costs prior to completing this tender, but the following are typical costs which could apply:

| Vehicles Permits | |
|-------------------------|-------------|
| <i>Duration</i> | <i>Cost</i> |
| Permanent | R 1149.38 |
| Add on charge | R 5114.86 |
| | |
| Temporary (1 Day) | R 41.29 |
| Temporary (2-3 Days) | R 113.84 |
| Temporary (1-3 Months) | R 287.09 |
| Temporary (4-6 Months) | R 567.14 |
| | |

| | |
|-------------|----------|
| Penalty | |
| Lost Permit | R2130.00 |

| Personal Permits | |
|---------------------------|-------------|
| <i>Duration</i> | <i>Cost</i> |
| Ad Hoc (1-5 Days) | R 47.71 |
| Permanent | R 229.68 |
| | |
| AVOP | R 478.00 |
| | |
| Damaged card re-print | |
| 1 st Lost card | R 137.81 |
| 2 nd Lost card | R 271.99 |
| | |
| Courses | |
| AVOP Course | R410.00 |
| Airside Induction | R410.00 |

A1.2.8 WORKMANSHIP

A1.2.8.1 Process quality control

Add the following new subclauses:

“The Contractor shall submit a proposed Quality Management Plan in accordance with ISO 9002 for this contract (Form C9). Confirmation of the Quality Management Plan shall be submitted to the Engineer, for his approval within two weeks of the commencement date and prior to the commencement of construction activities. Once accepted by the Engineer the Contractor shall not deviate from it unless written notification of proposed changes have similarly been submitted and approved. The system shall record the lines and levels of responsibility and indicate the method and frequency by which testing procedures will be conducted.

The Contractor shall also appoint a Quality Manager who shall ensure that the Contractor’s staff comply with the requirements of the Quality Management Plan.

Payment for work done will not be made until the results of the Contractor’s process control testing have been submitted and the Engineer has approved the work. The Engineer shall conduct such tests as he may deem necessary to verify the process control test results and shall retain all rights as determined in the General Conditions of Contract related to bad workmanship or unacceptable materials. This shall also be applicable to accepted alternative (mix) designs and related specifications.”

Insert the following new subclauses:

(a) “External testing house

An external testing house will be appointed by the Engineer to undertake verification quality control testing of construction materials and workmanship by means of laboratory testing at an external testing facility to confirm results of the Independent Site Laboratory on a selected sampling basis. All sampling and testing by the external testing house will be done on the instruction of the Engineer. Materials will be sampled on site or at commercial supply sources or at the contractor’s asphalt or concrete plant and will be tested the following day. Results will be reported to the Engineer for interpretation and possible action. The external testing house will invoice the Contractor (nominated subcontractor) for the cost of material sampling and testing and for reporting the test results to the Engineer. This cost will be reimbursed under the provisional sum item on approval of the Engineer.

The Contractor will be required to accommodate and support the sampling procedures of the external testing house during the course of the contract. Representatives of the Engineer and the testing house will be allowed to inspect any stockpile, storage facility or processing activity for the purpose of quality control.

(b) External testing house used as independent site laboratory

The contract will utilize an external testing house as an independent site laboratory. Testing shall be undertaken by a combined external testing house laboratory facility for process control (where the process control testing can be utilised as acceptance control), acceptance control and correlation testing subject to the following requirements laid down by the Employer:

- (i) The Contractor accepts the test results of the combined laboratory. Should there be any doubts with regard to certain test results, this will be settled by an independent laboratory mutually agreed upon. The cost in such cases will be to the account of the party at fault.
- (ii) The contractor accepts that the Engineer will be in charge of the combined laboratory.
- (iii) The external testing house must supply a suitable qualified material technician (with at least 10 years asphalt paving quality control experience). The material technician will be responsible for paving quality control (that includes but not limited to temperature control of asphalt, recording

of compaction effort, recording of stoppage and prevention of cold joints, inspection of the surface prior to tacking). This material technician must be approved by the Engineer before commencement of any works.

- (iv) The Contractor must install suitable infrared sensors on the paver to record the material temperature on a continuous basis and these results must be available to the external laboratory and Engineer.
- (iii) The Contractor accepts the costs reduction factor as described below.

The total cost of the independent external commercial (combined) laboratory for the 12 month contract period has been estimated at an amount R2 300 000.00, which is included in Pay Item **PC20.1.6 (a) Provision for testing materials and judgement of workmanship**. The Contractor's contribution to the combined laboratory shall be a minimum of 30% of the amount claimable by the external testing house. This amount shall either be deducted from the Pay Item or the Contractor can, with the Engineers approval, provide a combination of deducted amount, transport, additional staff or other means equating to the 70% value."

C1.2 GENERAL REQUIREMENTS AND PROVISIONS

PART C: MEASUREMENT AND PAYMENT

| Item | Unit |
|----------------------|-------------|
| C1.2.5 Safety | |

Add the following pay subitems:

"C1.2.5.3 Full-time Safety Officer.....Month

The tendered sum shall include for the cost of a SACPCMP accredited construction safety officer on a full-time basis, his overheads, transport and all others items necessary for the proper carrying out of his duties.

C1.2.5.4 Submission of the Health and Safety FileLump Sum

This amount will be paid only once the Contractor has met all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and has submitted his Health and Safety File complete as envisaged on this specification to the Client's satisfaction. This must be done prior to the issue of a Certificate of Completion."

Add the following pay item:

Add the following new pay item:

"**Item Unit**

C1.2.10 Dispute Adjudication Board (DAB)

C1.2.10.1 Employer's contribution to DAB (50%) prime cost (PC) sum"

"Payment for the Employer's contribution to the DAB shall be made in accordance with Clause 6.6.2 of GCC 2015. The Contractor shall be reimbursed the actual cost paid or payable for the Employer's 50% share of the DAB, upon submission of supporting invoices and vouchers, together with the tendered percentage/amount for attendance, profit and administration."

Add the following pay item:

PC1.2.11 Airside induction courses and permits.....Lump Sum

The tendered lump sum shall represent full compensation for all costs incurred for the attendance of the safety induction course for all the Contractors personnel and for all costs associated with the provision of all necessary permits as required by ACSA for the completion of the project.

No additional payment except that tendered in this item will be granted for permits, airside courses, radio license courses or for any vehicle license courses or permits associated with the due completion of this project and includes for any costs incurred for these during the maintenance period.

Payment of the lump sum tendered will be made in two instalments:

- (2) The first instalment, 70% of the lump sum, will be made in the first payment certificate after the Contractor has made a substantial start with construction in accordance with the approved programme.

- (2) The second instalment, 30% of the lump sum, will be paid when the value of the work reaches one half of the tendered amount, excluding contingencies and price adjustments.”

SECTION 1.3: CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS

PART A: SPECIFICATIONS

A1.3.3 GENERAL

A1.3.3.1 Construction camps

Add the following to the first paragraph:

"The site for the contractor's office and stores as well as the engineer's office and laboratory will be within ACSA's premises (Landside). The contractor shall provide 24-hr security at the camp site as well as a dedicated smoking area under roof as required in terms of legislation. The cost of this will be deemed to be included in item C1.3.1."

Add the following new subclause:

"A1.3.3.5 Contractor's ablution facilities

The Contractor shall provide sufficient portable chemical latrine units at the work sites as required by legislation i.e. 1:30 employees and catering for males and females. The latrine units shall be serviced daily and kept in a hygienic and orderly state to the approval of the Engineer. No separate payment shall be made for this requirement and the costs thereof shall be deemed to be included in the rates tendered for the Contractor's time-related obligations.

C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS

PART C: MEASUREMENT AND PAYMENT

"Item Unit

PC1.3.1 The Contractor's general obligations

Insert the following paragraph after the fourth paragraph:

"Should the combined total tendered for subitems (a), (b), and (c) exceed 15% of the tender sum, the tenderer shall state his reasons in writing for tendering in this manner.

If the tenderer should require additional compensation for his obligations under section C1.3 (over and above the total tendered for item C1.3.1 by including such additional compensation in the tendered rates and/or lump sum of items in the schedule of quantities, these items and the value of such additional compensation shall also be indicated in writing in a letter."

Add the following:

"The tendered rate per month for Item C1.3.1.3(c) represents full compensation for that part of the contractor's general obligations, which are mainly a function of construction time. The tendered sum will be paid monthly, pro rata for parts of a month, from the Commencement Date until the end of the period for completion of the works, plus any extension thereof as provided in the general conditions of contract."

Add the following at the end of this pay item:

"The amount payable to the contractor for time related costs arising from extensions of time granted by the employer, where the contractor is fairly entitled to such compensation in terms of the General Conditions of Contract, shall be calculated as follows:

- (ii) Account shall be taken of all time related items scheduled in C1.3 Part C: Item C1.3.1
- (ii) All pay items for which the unit of measurement is "month" shall be deemed to be based on a 23-day working month."

Add the following pay subitems:

PC1.3.1.3 Time-related obligations

- A) Mobilisation periodMonth
- B) Execution of the works.....Month

Under the heading "Item C1.3.1.3", delete the 2nd paragraph and replace with the following:

"The contract rate shall include full compensation for that part of the Contractor's general obligations which are mainly a function of construction time. The contract rate shall be deemed to include, leasing costs, hire costs or cost of ownership per month for Contractor's Equipment. The contract rate will be paid monthly, pro rata for parts of a month, from the Commencement Date in terms of the Contract Documentation until the end of the Mobilisation Period for item C1.3.1.3(a). For item C1.3.1.3(b) the contract rate will be paid monthly, pro rata for parts of a month, from the end of Mobilisation Period until the end of the original Contract Period specified for completion of the Works."

"PC1.3.1.4 Suspension Cost

- c) De-establishment Number
- c) Re-establishment.....Number
- c) Suspension period.....month

Add the following new paragraphs:

"Item C1.3.1.4

The rates tendered under subitem C1.3.1.4 shall represent full compensation for all Costs for Suspension of Work and all Costs during Suspension of Works period, and no other Costs (including other monthly costs) shall be payable.

Payment of subitems C1.3.1.4(a) and C1.3.1.4(b) shall be made for the number of de-establishments and re-establishments of all Personnel and Goods (Contractor's Equipment, Materials, Plant and Temporary Works) as instructed by the Engineer. Payment of subitems C1.3.1.4(a) and C1.3.1.4(b) shall not apply during the Mobilisation Period.

Payment of subitem C1.3.1.4(c) shall be made monthly, pro rata for parts of a month, from the date on which the Contractor has suspended progress of all of the Works in terms of Conditions of Contract clause 8.8 and commenced with de-establishment of the site, until permission or instruction to proceed in terms of Conditions of Contract clause 8.12 is given. Payment of subitem C1.3.1.4(c) shall not apply during the Mobilisation Period.

SECTION 1.4: FACILITIES FOR THE ENGINEER

PART A: SPECIFICATIONS

A1.4.7 EXECUTION OF THE WORKS

A1.4.7.1 Offices and laboratories

a) General

Add the following:

"The Resident Engineer's offices shall, amongst other things, have one room at least 6 x 3.5 meters to serve as a conference room. All offices and laboratories shall be supplied with approved burglar proofing."

c) Laboratories

Add the following:

"For the purposes of this Contract, commercial laboratory testing shall be used for acceptance control purposes."

A1.4.7.3 Services

The following subclause shall be added to clause A1.4.7.3 of the Specifications:

(c) First Aid

The Contractor shall provide a first aid kit at the site offices. No separate payment will be made and the Contractor shall allow for this in his tendered rates for accommodation for supervisory staff."

SECTION 1.5: ACCOMMODATION OF TRAFFIC

PART A: SPECIFICATIONS

A1.5.3 GENERAL

A1.5.3.2 General Requirements

Add the following to clause A1.5.3.2:

“This Contract is divided into limited occupation areas to ensure that the roadway network remains operational during construction. All occupation areas shall be of short duration, including, but not limited to, night-time working periods where applicable. The Contractor shall notify and obtain prior approval from the Employer’s Representative and relevant airport operational authorities before any closure or partial closure of roadways, access roads, or circulation routes required for construction purposes. All applicable requirements of Volume 5 and Clause A1.2.7.6 shall be strictly complied with at all times. The Contractor shall further note that escort services shall be provided by the Contractor for all vehicles entering restricted or controlled roadway areas to reach designated work zones, in accordance with Clause A1.2.3.24.

The Works are intended to be executed in phases to accommodate operational requirements and maintain continuity of service. The detailed phasing of the Works shall be developed progressively by the Contractor and submitted for approval by the Engineer as the Contract progresses. The Contractor shall not commence any phase of the Works without prior approval of the relevant phasing plan by the Engineer.

Should the Contractor wish to deviate from any approved phasing arrangement, prior written approval shall be obtained from the Engineer. Where such deviation is approved, the Contractor shall ensure that the Airport Manager (AM) and the Engineer are kept fully informed of all related changes to the construction methodology, sequencing, and programme.”

PART C: MEASUREMENT AND PAYMENT

Add the following payment items:

“The Contractor’s obligation under this Section C1.5 shall not be measured or paid for directly (except as hereinafter provided for) and compensation for the work involved to comply with these obligations shall be deemed to be covered by the rates and amounts tendered for the various items of work included under this contract.

Add the following pay items:

| “Item | Unit |
|---|-------------|
| PC1.5.13 Safety Barriers: | |
| (a) Provide HDPE plastic mobile road safety barrier, NJ type (2 m x 1 m high) taped with yellow reflective tape, two strips on either side..... | Number (No) |
| (b) Placing, moving and final removal of HDPE NJ type barriers upon completion of the works | Lump Sum |

The Contractor shall be responsible for maintaining the barriers (including ballast of plastic barriers) and lights. Placing and removal of barriers will be measured once only for payment for each barrier. No additional payment will be made for the intermediate moving and placing of barriers during the contract.

Payment of the lump sums tendered will be made in three instalments.

- (1) The first instalment, 30% of the lump sum, will be made after the contractor has made the initial provision and first placement with the first facility closure
- (2) The second instalment, 40% of the lump sum, will be paid when the value of the work reaches one half of the tendered amount, excluding contingencies and price adjustments.
- (3) The third and final instalment, 30% of the lump sum, will be paid when the barriers are no longer needed and have final been removed off-site.”

“Item

Unit

PC1.5.16 Provision of escort services for all project vehicles.....Lump Sum

Payment of the lump sum tendered will be made for the escort services required by ACSA to be provided by the Contractor. The tendered lump sum shall include full compensation for training requirements and Airside Vehicle Operators Permit (AVOP) compliance, providing all transport, safety equipment not otherwise specifically covered, labour and ancillaries required to perform an escort service for all construction vehicles from the security gate to the area where work is taking place.

Payment of the lump sum tendered will be made in three instalments.

- (1) The first instalment, 50% of the lump sum, will be made in the first payment certificate after the contractor has made a substantial start with construction in accordance with the approved programme.
- (2) The second instalment, 35% of the lump sum, will be paid when the value of the work reaches one half of the tendered amount, excluding contingencies and price adjustments
- (3) The third and final instalment, 15% of the lump sum, will be paid when the work has been completed and certificate of practical completion has been issued.

The tendered sum shall include full compensation for training requirements and AVOP compliance, providing all transport, safety equipment not otherwise specifically covered, labour and ancillaries required to perform an escort service for all construction vehicles from the security gate to the area where work is taking place.

SECTION 1.6: CLEARING AND GRUBBING

PART A: SPECIFICATIONS

A1.6.7 EXECUTION OF THE WORKS

A1.6.7.6 Conservation of topsoil

Add the following paragraph to the clause:

"During the improvement of roadway shoulder areas, material may be temporarily windrowed outside the active work areas.

No windrows shall be permitted within 37.5 m of the roadway edge, or within any intersections, access points, or other operationally sensitive roadway zones.

All windrows shall be managed and maintained such that their height does not exceed applicable ACSA maximum obstacle height restrictions or create any hazard to vehicular traffic, pedestrian safety, or adjacent infrastructure.

The Contractor shall continuously control, reshape, or remove windrowed material as required to maintain safe traffic flow, adequate visibility, drainage performance, and compliance with operational safety requirements."

PART C: MEASUREMENT AND PAYMENT

Amend the following payment items:

| "Item | Unit |
|--|-------------|
| PC1.6.4 Removal of buildings and structures | |
| a) Demolition of existing structures..... | PC |
| b) Handling cost, profit and all other charges in respect of item C1.6.4. (a)..... | % |

Payment of the Prime Cost Sum shall be made in accordance with Clause 6.6.2 of GCC 2015. The Prime Cost Sum shall cover the actual cost payable for demolition work executed by a specialist contractor or subcontractor appointed or approved by the Employer's Agent.

Payment of the handling charge shall be made proportionally with payments certified under Item C1.6.4(a). The tendered percentage shall apply only to the actual value of work executed and certified, and not to the full Prime Cost allowance.

SECTION 1.7: LOADING AND HAULING

PART A: SPECIFICATIONS

A1.7.1 SCOPE

Add the following to Clause A1.7.1:

“No overhaul will be paid to the Contractor for transporting any materials whatsoever, whether obtained from commercial sources, designated borrow areas or any other source of material supplied by the Contractor and for the removal of spoil material from the airport premises.”

“The designated stockpile and spoil areas (temporary) will be provided by the AM within the boundaries of Bram Fischer International Airport.”

A1.7.3.2 Haul and construction access roads

Add the following paragraph to the clause:

“The usage and selection of haulage roads on the employer’s (ACSA) premises and on the site will be coordinated on a daily basis between the Contractor, the Engineer’s Representative and the Employer’s representative.”

COTO CHAPTER 2: SERVICES

SECTION 2.1: GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES

PART A: SPECIFICATIONS

A2.1.3 GENERAL

Add the following to the clause:

“The owners of services affected under this Contract are all under the control of the Airports Company South Africa whose representative must be contacted regarding the location of all services in the construction area. Inspections shall be undertaken by means of the authority’s service detectors and such inspections shall be attended by the Contractor and the Engineer’s Representative. No payment shall be made to the Contractor for attending these inspections.

The following existing surface and subsurface services are not known and exact locations should be determined with service detection and inspection.

| Service | Approximate Location |
|-----------------------------|---|
| Roadway lights | Lights and cables run across the roadway |
| Main electrical supplies | Main supply cables, crossing below the roadways |
| Medium voltage cable routes | Alongside roadways |
| Communication cable routes | Crossing below roadway surface |

Protection and/or relocation of certain services will be required. The Engineer will issue instructions after location and exposure of these services. No large compaction equipment will be allowed to work within 10 m of any ground mounted frangible light fixtures or any other navigational equipment without approval by the Engineer. The contractor shall allow for a 1,5 ton sit-on roller or similar compaction equipment approved by the Engineer to work within 10 m of the navigational equipment. No additional payment will be made for work close to the equipment as specified above.”

“The Contractor shall also be liable for any loss or consequential loss suffered by the owner of a service which is damaged by the contractor’s operations, e.g. loss of the ILS or Roadway lighting due to a power failure.”

“This work is planned to be executed in close proximity of approach, edge lights and roadway closure crosses and must be executed without interfering with the operation of these lights. The contractor shall ensure that the position of the cables are known to himself and his personnel and shall take all reasonable care to avoid damage to the cables, lights or transformers. Protective covers and markers shall be used as required to protect the lights from being damaged or covered by products (e.g. bituminous) whilst the work is carried out. No additional payment will be made to protect the lights.

Should existing services be damaged, the contractor shall give adequate notice to all concerned and leave enough time after completing a particular work shift to allow for the reinstatement of the cables.”

COTO CHAPTER 4: EARTHWORKS AND PAVEMENT LAYERS: MATERIALS

SECTION 4.4: COMMERCIAL MATERIALS

PART A: SPECIFICATIONS

A4.3.5 MATERIALS

Add the following after the heading:

All reclaimed asphalt used for this project shall comply with the specifications detailed in the Technical Recommendations for Highways 21:2017, *“Use of reclaimed asphalt in the production of asphalt.”*

A4.4.7 EXECUTION OF THE WORKS

A4.4.7.1 Selection (design) of the stabilizing agent content

c) Cementitious stabilizing agent for chemical stabilization

Step 2: Determine the Initial Consumption of Stabiliser (ICS) of the material.

Add the following after the 1st paragraph:

“The ICS shall be determined for more than one stabilizer agent and the stabilizer agent to be utilised in Step 3 shall be selected by the Engineer based on the ICS results.”

COTO CHAPTER 5: EARTHWORKS AND PAVEMENT LAYERS: CONSTRUCTION

SECTION 5.1: ROADBED

PART A: SPECIFICATIONS

A5.1.7 EXECUTION OF THE WORKS

A5.1.7.3 Normal roadbed treatment

Add the following new subclause:

“(j) Improvement of the roadway strips

Electrical conduits and any other instrumentation shall be identified and, where required, protected against possible damage by the Contractor. The Contractor shall take cognisance of Clause A2.1.3 when working within or adjacent to roadway reserve areas.

This section also covers the construction of shoulder drainage improvements on the main roadway and associated works at Bram Fischer International Airport.”

SECTION 5.3: PAVEMENT LAYERS

PART A: SPECIFICATIONS

A5.3.5 MATERIALS

A5.3.5.2 Pavement layer thickness and compaction requirements

c) Crushed stone pavement layer compaction requirements (G1 to G4A and G5A materials)

Change the 2nd sentence to read:

“The density of the compacted crushed stone base layers shall be tested at depths of 50 mm, 100 mm and 150 mm to determine the compaction gradient throughout the layer. The density measured for each depth shall conform to the minimum compaction densities for crushed stone pavement layers as per Table A5.3.5-2.”

A5.3.8 WORKMANSHIP

A5.3.8.4 Construction tolerances for pavement layers

Add the following as a new sub-clause:

“f) Surface texture

The maximum volumetric texture depth (measured as described in SANS 3001-BT11) of the base, shall be as specified in Table A5.3.8-7, for the different seal types to be placed on the base.

Table A5.3.8-7: Maximum texture of base

| Surfacing type | Max texture depth of the base |
|---|---|
| Single seal with 10 mm aggregate | 0,8 |
| Single seal with 10 mm aggregate (with cover spray) | 1,0 |
| Single seal with 14 mm aggregate | 0,8 |
| Single seal with 14 mm aggregate (with cover spray) | 1,5 |
| Single seal with 14 mm aggregate (with Bitumen rubber) | 1,2 |
| Double seal with 10 mm aggregate and sand | 1,0 |
| Double seal with 14 mm aggregate and sand | 1,5 |
| Cape Seal with 10 mm aggregate and one layer of slurry | 1,5 |
| Cape Seal with 14 mm aggregate and one layer of slurry | 2,0 |
| Cape Seal with 20 mm aggregate and two layers of slurry | 2,5 |
| Double seal with 14 mm aggregate and a layer of 7 mm aggregate | 1,5 |
| Double seal with 14 mm aggregate and a layer of 5 mm aggregate | 1,5 |
| Double seal with 20 mm aggregate and a layer of 10 mm aggregate | 2,0 |
| Double seal with 20 mm aggregate and a layer of 7 mm aggregate | 2,0 |
| Double seal with 20 mm aggregate and two layers of 7 mm aggregate | 1,5 |
| Other surfacing type (as indicated in the Contact Documentation) | As specified in the Contract Documentation” |

A5.3.8.5 Surface regularity

Add the following to the 1st paragraph:

“The surface regularity shall be assessed on the final prepared layer after all excess fines have been swept off the surface.”

c) By using a profiler

*In the paragraph following Table A3.5.8--6, delete the following: "for payment items ***
_____", and replace with the following: "for payment items as specified in the Contract
Documentation".*

SECTION 5.4: STABILIZATION

PART A: SPECIFICATIONS

A5.4.1 SCOPE

Add the following as a 3rd paragraph:

“The use of recyclers for cold in situ recycling purposes is also covered in this section, which includes cement, lime and emulsion of base layers consisting of gravel material as described in Clauses A4.4.7.1(c) and A4.4.7.1(d) in Chapter 4 of COTO”

COTO CHAPTER 9: ASPHALT LAYERS

SECTION 9.1: ASPHALT LAYERS

PART A: SPECIFICATIONS

A9.1.3 GENERAL

A9.1.3.4 Weather limitations

Add the following paragraph:

“Should rain or cold weather threaten, all exposed areas shall immediately be reinstated with asphalt and milling operations shall cease.”

A9.1.5 MATERIALS

A9.1.5.2 Bituminous binders for asphalt mixes

Reference is drawn to the SANS BITUMEN SPECIFICATIONS of the project specifications with regards to SANS Bitumen Specifications that shall apply to this contract

- (i) Conventional binders as specified in SANS 4001-BT1

Add the following:

“The binders shall comply with SANS 4001-BT1 Latest Amendment. The Contractor shall submit the following to the Engineer for each batch of bitumen used on site:

- A copy of the SANS quality certificate, indicating the batch number and grade.
- A sample of the (base) bitumen.
- The source of the bitumen.

The Engineer will require the Contractor to submit samples of the bitumen to an approved accredited laboratory at random intervals to check compliance with the SANS 4001 criteria. The cost of these additional tests will be reimbursed through a prime cost item. (C20.1)

A9.1.6 CONSTRUCTION EQUIPMENT

A9.1.6.1 General

Add the following:

“The paving of the asphalt surfacing shall be controlled by the use of wires or similar approved methods to achieve the specified levels and thickness.

Averaging beams (levelling beams) are to be used for the asphalt surfacing. They shall be at least 9 m long and shall be assembled from rigid sections having multiple spring-load feet.”

A9.6.6 Rollers

Replace the next sentence in the first paragraph with the following:

“Approved tandem-axled steel-wheel rollers with a minimum roller width of 1,5 m and a minimum length of 2,0 m must be used for initial rolling. The roller drum must be smooth without any indentations or marks that may lead to pick-up of the asphalt carpet. A 25-ton pneumatic roller must be used for the final rolling and finishing of asphalt surfacing. The use of the pneumatic roller shall be assessed in the trial section.”

A9.1.7 EXECUTION OF THE WORKS

A9.1.7.4. Transporting the mixture

Add the following:

“Segregated mixes will under no circumstances be accepted by the Engineer. Effective steps must be taken by the Contractor to prevent segregation. Trucks with segregated asphalt mixes will be rejected by the Engineer.”

“Special precautions shall be taken by the Contractor to ensure that the temperature of the total mass of asphalt does not decrease by more than 15°C from point of dispatch to the point where it is to be

A9.1.7.6 Placing the asphalt

Add the following to subclause (a):

“The following paving restrictions will strictly apply:

- No paver stops will be allowed for reversing supply trucks.
- Continuous paving operation is a requirement. Paver speed to be regulated to prevent supply related stops. Paving operations may only start if sufficient asphalt supply trucks are available to ensure a continuous paving operation.
- Levelling skid-beams (9 m length at least with free wire between ends) or wire guide system to be used on both sides – no joint matchers except if agreed or instructed by the Engineer.
- Automatic auger feed control, which can keep the asphalt mount in-front of the screed constant, are required.
- No pneumatic rolling as breakdown rolling on the final surfacing layer.
- Handwork shall not be allowed.
- No fat spots or loose stones.
- No water ponding.

In the case of non-appliance herewith the Engineer’s personnel will stop the paving operations and sections done in non-compliance can be rejected after assessment by the Engineer.”

Add the following new subclause

Add the following to this clause:

“a) Asphalt Surfacing

All joints not paved with tandem pavers will be considered to be cold joints with reference to joint treatment preparation. All asphalt joints shall be cut back by an approved roller wheel or milling machine (minimum 70 mm in 2 x roller wheel cuts on surfacing layer) in a straight line to the satisfaction of the Engineer.

The lateral distance between joints of two (2) successive asphalt layers shall not be less than 200 mm.

Where the difference in level between the new work and the existing road surface exceeds 25 mm, joints shall be treated as follows:

Transverse steps at the end of a day’s work on operational roadways and taxiways shall be tapered off at a slope of 1 vertical to 20 horizontal (1:20) to tie in with the existing surface. The tapered section shall be removed before surfacing is recommenced and a joint formed in accordance with clause 4208 of the specification. Longitudinal joints exposed to traffic shall be provided with a taper of compacted asphalt material over the full length of the exposed joint. The width of the taper shall be at least 5 times the difference in level between the old and new work.

All costs involved in the provision and removal of these temporary ramps shall be deemed to have been included in the rates tendered for the relevant asphalt pay item.

b) Longitudinal Joints

Longitudinal joints shall be cut back as specified in a) above.

No saw-cutting will be allowed on newly placed asphalt. All wearing course transverse joints to be cut and treated similar to the specifications for longitudinal joints.

Whenever the paver stops for more than 5 minutes on thinner wearing course layers and/or the uncompacted material already laid cools down to below compaction temperature (110°C for wearing course), a joint shall be constructed as specified and all cooled uncompacted materials removed from the pavement.”

A9.1.7.7 Compaction

Add the following:

“An appropriate rolling temperature range will be determined by the Contractor and will be submitted to the Engineer for verification during the trial sections. This range will be applied as specification during the contract.”

“The sequence of rollers used in compaction is at the discretion of the Contractor (except as specified for pneumatic rolling) provided the completed layers shall have minimum and maximum density as specified in table A9.1.7.7/1 below as described in TMH1, method C4 (Rice's density).

Table A9.1.7.7./1: Minimum and Maximum Compaction Density Specifications

| Layer | Min Density | Max Density |
|--|-------------|-------------|
| Wearing courses and thin base repairs (40mm to 60mm thick) | 93% MTRD | 97% MTRD |

In addition hereto the compaction immediately adjacent to joints and across the joints shall be done to ensure densities of not less than 1% of those specified (above) in the rest of the layers (including all hot and cold joints). Joint densities measured across the joint shall not have densities of less than 2% of the minimum specified layer density. A combination of asphalt cores and Marvel permeability testing will be used to access and approve joint densities before covering thereof with consecutive layers.

A9.1.8 WORKMANSHIP

A9.1.8.7 Voids

Add the following to this clause:

(a) Air-void tolerance

Replace the content with the following:

“The actual air voids may not deviate by more than 1.5 percentage point from the design voids @ N_{design} , based on a gyratory compaction of the approved working mix.

A9.1.8.8 Sampling

(a) Coring of completed layers

Add the following at the end of the first paragraph:

“No laying of asphalt surfacing shall be permitted unless a suitable core cutting machine is available on site at all times when asphalt paving is taking place. Cores shall be taken as directed by the Engineer. Cores may only be drilled when the layer temperature is less than 20°C. Core holes must immediately after coring be filled with hot asphalt and compacted. Cores shall be taken within 48 hours of paving. The density test results on the cores will be submitted to the Engineer 24 hours after coring.”

Add the following new sub-clauses:

(d) Quality Control

The Contractor will be required to submit his detailed Quality Assurance Plan (system) to the Engineer for approval. Once approved, the Contractor shall not deviate from the system.

(f) Special tests

(i) Recovery of binder for further testing

Extraction of bitumen and its recovery from samples taken from the asphalt layers shall be carried out in accordance with ASTM D1856/79 (Abson).

(ii) n-Heptane-xylene Equivalent (Spot Test) (AASHTO – T102)

If the Engineer considers that bitumen or asphalt has been overheated, he may order that the bitumen or the bitumen recovered from the asphalt be subjected to the spot test.

Recovery of binder for use in the spot test shall be carried out as described in (d) (i) above.

Any sample showing an n-Heptane-xylene equivalent in excess of 36 or if the bitumen contains a proportion of bitumen prepared from cracked stock, in excess of the manufacturers test result on the new stock, shall be considered to have been overheated and shall be rejected.

(iii) The following additional test shall be carried out on asphalt samples taken from the paver hopper:

- Penetration of recovered binder @ 25°C (Method ASTM D5)

Should the penetration of the recovered binder be less than 24 at 25°C, the asphalt layer shall be deemed to be unsatisfactory and shall be condemned by the Engineer. The Engineer on site shall decide the frequency of testing.

(g) As-Built

The Contractor shall keep accurate records and submit the following information to the Engineer on a daily basis:

- I. Where every truckload of asphalt is laid (load, position, lane, time and date).
- II. The truck number from which control samples have been taken. All samples taken from trucks shall be numbered.
- III. The temperature of the asphalt in the truck both at the mixing plant and at the paving equipment.
- IV. Process control results

These shall be summarised on a spreadsheet/database and mapped for as-built purposes and supplied to the engineer on a daily basis.”

COTO CHAPTER 11: ANCILLARY ROAD WORKS

SECTION 11.7: ROAD MARKINGS AND ROAD STUDS

PART A: SPECIFICATIONS

A11.7.3 GENERAL

Add the following to A11.7.3 GENERAL:

“Where the roadway or taxiway (if applicable) is to be re-opened to traffic after shifts, the Contractor will be required to apply all necessary paint markings at completion of each such shift within a designated area. The paint shall be non-reflectorised and applied strictly in accordance with the manufacturer’s instructions. The paint shall be normal road marking paint complying with SABS 731. Solvent-based paints will be used for temporary paint markings and water-based paint for all permanent paint markings. At the start of the project, the Contractor will supply samples of the paint he intends to use and apply trial sections to the satisfaction of the Engineer which will also include environmental risk mitigation measures to be implemented and maintained as well as waste management.”

A11.7.5 MATERIALS

A11.7.5.2 Materials

a) Marking materials

(iii) Thermoplastic road marking material

In the 4th paragraph, delete “mcd/m².lux” and replace with “mcd/m²/lux”

SECTION 11.8: LANDSCAPING AND PLANTING PLANTS

PART A: SPECIFICATIONS

A11.8.7 EXECUTION OF THE WORKS

A11.8.5 MATERIALS

A11.8.5.2 Materials

d) Grass seeds

Add the following grass seed mixture:

| Latin Name | English Name | kg/ha |
|---------------------|---------------------|-------------|
| Eragrostis tef | Teff | 2,0 |
| Digitaria eriantha | Finger grass | 5,0 |
| Chloris guyana | Rhodes grass | 4,0 |
| Cenchrus ciliaris | Blue Buffalo grass | 4,0 |
| Cynodon dactylon | Couch grass | 7,0 |
| Aristida congesta | Three lawn grass | 2,5 |
| Melinis repens | Natal red top | 2,5 |
| Panicum coloratum | White Buffalo grass | 2,5 |
| Andropogum eucomus | Snowflake grass | 2,5 |
| Imperata cylindrica | Cottonwool grass | 2,5 |
| | Others to be added | 0,5 |
| Total | | 35,0 |

A11.8.7.3 Grassing

(c) Hydroseeding

Add the following:

During seeding, the seed mixture shall be regularly mixed by hand in order to prevent the separation of smaller and larger seeds in the mixture. After seeding, the soil surface shall be lightly raked parallel to the contours in order to cover the seed. During raking, care shall be taken to prevent the redistribution or removal of seed from any area. Seeding to comply with supplier's guidelines and all additional costs are deemed to be included in tendered rates. This includes shade netting at areas close to roadway thresholds."

A11.8.7.4 Maintaining the grass cover.

(a) Watering, weeding, mowing and replanting.

Add the following to the second paragraph:

“The Contractor shall remain off newly grassed areas or areas that have been prepared for grassing. Any damages caused by the Contractor to newly grassed areas or areas that have been prepared for grassing shall be repaired to the satisfaction of the Engineer, at the Contractor’s own expense.”

(c) Maintenance period

Add the following before the first paragraph:

“In this subclause all reference to the maintenance period in respect of grass shall mutatis mutandis also apply to the maintenance of the shade netting required to protect the grass sods or newly planted hydroseed against the damage caused by jet blast. The maintenance period is also one (1) year and comprises the repair and securing of the netting as and when required by the Engineer. The Contractor may be required to remove the netting before the maintenance period has expired.”

COTO CHAPTER 12: GEOTECHNICAL APPLICATIONS

SECTION 12.11: GEOSYNTHETICS

PART A: SPECIFICATIONS

A12.11.5 MATERIALS

Add the following sub-clause:

“A12.11.5.4 Grade Classification

The Grade classification for Geosynthetics is specified in the Contract Documentation.”

TABLE A12-11.5-1 Grade Classification of Geosynthetics

| Property | GRADE | | | | |
|--|-------|------|----------------|------|------|
| | 1A | 1B | 1C | 2 | 3 |
| Penetration load (CBR) (minimum), N Test Method: SANS 12236: 2013 | 9000 | 4400 | 3000 | 2400 | 1500 |
| Puncture resistance (maximum), mm Test Method: SANS 13433: 2013 | 9 | 16 | 18 | 26 | 32 |
| Water percolation (minimum), l/m²/s Test Method: SANS 11058: 2013 | 20 | 20 | 40 | 50 | 100 |
| Test strength (minimum) kN/m Test Method: SANS 1525: 2013 | 50 | 25 | Not applicable | | |

COTO CHAPTER 20: QUALITY ASSURANCE

SECTION 20.1: TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP

PART A: SPECIFICATION

Replace all references to “TMH5” in this section with: “SABITA Manual 37 / TMH5 (latest edition).”

A20.1.2 DEFINITIONS

Independent site laboratory

In the definition of “Independent site laboratory”, add the following:

“Independent Site laboratory in COTO is equivalent to the combined laboratory in the Employer documentation.”

A20.1.3 TESTING METHODS

A20.1.3.2 Standard Methods

Add the following to the last paragraph:

“Replace all references to “TMH5” in this section with: “SABITA Manual 37 / TMH5 (latest edition).”

A20.1.4 PUBLISHED TEST METHODS

A20.1.4.8 Testing of asphalt

Add the following new paragraph:

“Sabita Manual 39: Laboratory Testing Protocols for Binders and Asphalt, shall be implemented together with the asphalt tests listed.”

Delete reference to: “Sabita Manual 35 for Design and Use of Asphalt in Road Pavements: Determining the Richness Modulus of EME asphalt mixes.”

and replace with “Sabita Manual 33 for Design Procedure for High Modulus Asphalt (EME): Determining the Richness Modulus of EME asphalt mixes.”

A20.1.7 ACCEPTANCE CONTROL BY STATISTICAL JUDGEMENT PRINCIPLES

A20.1.7.2 Taking samples

a) Stratified random sampling

Add the following new paragraph:

“Where the SARDS Laboratory module is used, the sampling locations must be as per the software. The Engineer may specify additional sampling locations.”

b) Minimum samples per lot

Add the following new paragraph:

“Where the SARDS Laboratory module is used, the number of samples per lot must be as per the software, as a minimum. The Engineer may specify additional numbers of samples. The Number of samples must be sufficient to meet the requirements of TMH5.”

C20.1 TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP

PART C: MEASUREMENT AND PAYMENT

| | |
|-------------|-------------|
| Item | Unit |
|-------------|-------------|

Add the following new pay item:

PC20.1.6 (a) Provision for testing materials and judgement of workmanshipPrime cost (PC) sum

(i) Handling cost and profit in respect of item C20.1.6.1Percentage (%)

“The contractor shall pay the appointed site laboratory monthly for the amount as certified by the Engineer.

The independent site lab shall be responsible for all acceptance control testing and additional tests as requested by the Engineer.

The Contractor’s contribution to the combined laboratory shall be a minimum of 30% of the amount claimable by the laboratory.

The charge or mark-up tendered or allowed for is a percentage of the amount actually paid under the prime cost item. The percentage shall cover all the Contractors’ sourcing, handling, profit, and payment of the service provider in providing the services. The Contractor shall forfeit his mark-up when the service provider is not paid in time.”



AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

PARTICULAR (PROJECT) SPECIFICATIONS: MECHANICAL

1. STANDARDS AND REGULATIONS

The works shall comply with the latest editions of the following standards and statutory requirements, as applicable:

- SANS 2001: Construction Works
- SANS 1200 (where referenced by contract documents)
- SANS 10252-1: Water supply installation for buildings
- SANS 10254: Installation of buried pipes
- SANS 966 / SANS 1601 (pipes and fittings, where applicable)
- Local municipal and water authority requirements
- Airports Company South Africa (ACSA) technical standards and operational requirements
- Occupational Health and Safety Act, 1993, and Construction Regulations
- National Environmental Management Act (NEMA)

Where conflict exists between documents, the most stringent requirement shall apply.

2. APPROVALS

Each system component shall have proper listing and/or approval from the nationally recognized agency listed below.

All equipment used shall be listed by at least two of the following agencies:

- SABS: South African Bureau of Standards
- SANS: South African National Standard
- UL: Underwriters Laboratories – USA
- FM: Factory Mutual – USA
- VdS: Verband der Saeliversicherer - West Germany
- AFNOR: Association Francaise de Normalisation – France
- BS: British Standards - Great Britain
- LPC Loss Prevention Council - Great Britain
- CSA: Canadian Standards Association – Canada
- ULC: Underwriters Laboratories – Canada
- AS: Australian Standards – Australia
- ASIB: Automatic Sprinkler Inspection Bureau - RSA

Any deviation from these specifications shall be approved, in writing, by the Engineer familiar with the project for which the Specification has been prepared and by the Employer.

3. MATERIALS

- Pipes shall be of the specified material, pressure class, diameter, and joint type as indicated on the drawings and BOQ.
- All pipes, fittings, valves, and accessories shall be new, free from defects, and approved by the Engineer prior to installation.
- Valves shall be suitable for buried installation and provided with corrosion protection appropriate for the site conditions.
- All materials shall be delivered, stored, and handled in accordance with manufacturer's recommendations to prevent damage, contamination, or deformation.
- Materials not complying with the specification shall be rejected and removed from site at the Contractor's cost.

4. PROTECTION AGAINST CORROSION

All steelworks shall be adequately protected against corrosion. Complete piping system shall be coated with 1 coat red oxide / zinc chromate primer paint and two coats of Signal Red enamel paint. Surfaces shall be thoroughly cleaned by wire brush or sanding together with appropriate solvent cleaner. A suitable primer coat shall then be applied. Care shall be taken that the entire surface is covered to the same standard and where surfaces have been damaged during the installation, these shall be touched up to the same standard.

5. PAINTING

The complete piping installation is to be painted. Pipes shall be primed and painted prior to delivery to site. Two coats, Signal red shall be applied, before delivery to site, on all exposed pipes. Once pipes are installed touching up shall be done to ensure a smooth and as new finish. Unpainted pipes shall immediately be removed off site. Concealed piping shall also be painted.

Pipe thread seal (hemp) shall be properly cut back prior to painting.

No pipes shall be laid on ground gravel or floors. Proper pipe racks shall be used. Timber slats laid on the ground does not constitute a pipe rack. Pipe racks shall be erected and inspected on site BEFORE delivery of piping. A sign off by the Engineer ONLY constitutes an acceptable pipe rack.

6. EXCAVATION AND TRENCHING

- Trenches shall be excavated to the required widths, depths, and gradients to accommodate the specified pipe diameters and bedding requirements.
- Excavation in proximity to existing services shall be carried out using hand tools where necessary.
- The Contractor shall be responsible for locating, exposing, supporting, and protecting all existing underground services.
- Adequate shoring, trench support, and dewatering shall be provided to ensure stability and safety at all times.
- Excavated material unsuitable for backfilling shall be removed from site and disposed of at approved facilities.

7. BEDDING, LAYING, AND JOINTING

- Pipes shall be laid on approved bedding material with a uniform and continuous support along the full length of the pipe.
- Bedding material shall be compacted to the specified density prior to pipe laying.
- Pipes shall be laid true to line and level, free of debris and standing water.
- Jointing shall be carried out strictly in accordance with the manufacturer's instructions to achieve watertight and durable joints.
- Thrust and anchor blocks shall be constructed at bends, tees, valves, and terminations as indicated on the drawings and approved by the Engineer.

8. BACKFILLING AND REINSTATEMENT

- Backfilling shall be carried out in layers using approved material and compacted to the required density.
- Selected fill shall be used around the pipe zone to prevent damage to the pipeline.
- Surface reinstatement shall restore the affected area to at least its original condition, including roads, pavements, airside surfaces, kerbs, and landscaped areas.
- Reinstatement within operational airport areas shall be coordinated with airport authorities to minimise disruption.

9. FIRE WATER SYSTEM TECHNICAL SPECIFICATIONS

9.1. Fire pump installations

Fire pump installations shall deliver the required fire flow at the necessary residual pressure at the most hydraulically remote point. A fire pump set shall include one electrically driven main fire pump and one diesel-driven standby pump to ensure operation during power outages, together with a jockey pump to maintain system pressure under normal conditions. Fire pumps shall automatically be started by a drop in system pressure and shall be provided with dedicated, code-compliant controllers, test headers, and instrumentation.

9.2. Above ground piping

All above ground pipe work installed inside the pump house up to and including 150mm diameter shall be of Medium Grade Black Piping to SABS 62. Where above-ground pipe work exceeds 150mm diameter, this shall be of Medium Quality Black Piping to SABS 719 having a wall thickness of at least 6 mm. All above 150 mm mains shall be flanged

Hangers used shall be listed for the purpose. Pipe shall be substantially supported from the building structure, which must be capable of supporting the weight of the system when filled with water plus a minimum of 114 kg applied at each point of hanging. Piping shall be supported from the building structure only. Spacing between hangers is limited to 4.67 m for larger pipe diameters.

9.3. Underground piping

All piping below ground level smaller than 150 mm shall be Class 16 HDPE, this may be used for pipes always under pressure as per SABS 966 Code of Practice. Pipes in excess of 150 mm diameter shall be HDPE piping to SABS 966. Thrust blocks shall be provided at all the joints.

9.4. Fire Hydrants

Fire Hydrants shall consist of Ø65 mm instantaneous units, mounted at approx. 1.0 meters above ground. Hydrant inlet pipe shall be a minimum of 100 mm. Chubb hydrants are not acceptable.

10. Domestic Water System Technical Specifications

10.1. Domestic water system

The domestic water system shall provide potable water to the buildings, and auxiliary services. Distribution pipework shall limit velocities and pressure losses, using corrosion-resistant materials, HDPE. System pressures shall be controlled to ensure minimum pressures at remote fixtures while preventing excessive pressure at lower levels through pressure-reducing valves.

10.2. Booster pump set

Domestic water booster pump sets shall be installed to maintain constant pressure across the airport facilities, particularly where buildings are tall or located far from the supply source. These booster sets shall consist of multiple centrifugal pumps arranged in a duty/standby (N+1) configuration, controlled by variable frequency drives to maintain a constant pressure setpoint under varying demand. The booster system shall be designed so that failure of a single pump does not interrupt water supply to critical areas.

11. Testing and Commissioning

- All installed pipelines shall be pressure tested in accordance with the applicable SANS standards and the Engineer's requirements.
- Pipelines shall be flushed and disinfected prior to commissioning.
- Test results shall be recorded and submitted to the Engineer for approval.
- Any defects, leaks, or failures identified during testing shall be repaired and the pipeline retested at no additional cost.

12. Health, Safety, and Environmental Requirements

- The Contractor shall prepare and implement a site-specific Health and Safety Plan approved by the Principal Contractor and ACSA prior to commencement of works.
- All personnel working on site shall comply with ACSA security clearance, induction, access control, and permit-to-work requirements, including airside permits where applicable.
- Works within airside operational areas shall be planned in coordination with ACSA Operations to ensure no disruption to airport operations, aircraft movements, or passenger safety.
- Night works, restricted working hours, and phased construction may be required and shall be deemed included in the Contractor's rates.
- The Contractor shall ensure safe working practices at all times, including protection of excavations, traffic management, and segregation of the public from construction activities.
- Environmental impacts such as dust, noise, vibration, waste generation, and spillages shall be controlled and minimised in accordance with NEMA and ACSA environmental requirements.
- All waste material shall be removed from site and disposed of at approved facilities.

13. TEMPORARY WATER SUPPLY AND CONTINUITY OF SERVICES

- The Contractor shall ensure uninterrupted water supply to all critical airport facilities for the duration of the works.
- Where shutdowns are unavoidable, these shall be planned, approved by the Engineer and ACSA, and executed outside of peak operational hours.
- Temporary bypass pipework, valves, and connections required to maintain water supply shall be provided, installed, maintained, and removed by the Contractor at no additional cost.
- All temporary installations shall be pressure tested and disinfected prior to use.

14. MEASUREMENT AND PAYMENT

- Temporary Water Supply and Continuity of Services
- The Contractor shall ensure uninterrupted water supply to all critical airport facilities for the duration of the works.
- Where shutdowns are unavoidable, these shall be planned, approved by the Engineer and ACSA, and executed outside of peak operational hours.
- Temporary bypass pipework, valves, and connections required to maintain water supply shall be provided, installed, maintained, and removed by the Contractor at no additional cost.
- All temporary installations shall be pressure tested and disinfected prior to use.

15. COMPLETION AND HANDOVER

15.1 Completion

At completion, domestic water system shall be pressure tested, flushed, disinfected, and subjected to water quality testing before being placed into service. Fire water systems shall undergo hydrostatic testing of pipework, flow and pressure testing of hydrants, and full acceptance testing of fire pumps in accordance with applicable codes, including witnessed pump performance tests against certified curves. All control, alarm, and monitoring functions shall be verified and demonstrated to the relevant authorities and airport representatives.

15.2 Handover

At handover, comprehensive documentation shall be provided to the client and facilities management team. This shall include as-built drawings, pump and equipment data sheets, operation and maintenance manuals, test and commissioning reports, warranties, and recommended inspection and maintenance schedules. Training shall be conducted for airport operations and maintenance personnel to ensure correct operation, routine testing, and emergency response procedures. The systems shall be handed over only once compliance certificates are issued and approval is obtained, ensuring the domestic and fire water infrastructure is fully operational, compliant, and fit for long-term airport operations.

SECTION B: SPECIFIC DATA

Notes to tenderer:

1. In certain clauses, the Standard Specifications allow a choice to be specified in the Contract Documentation or Project Specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternatives or additional requirements applicable to this contract are contained in this Section B: Specification Data.
2. The number of each clause and each payment item in this part of the project specifications follows the numbering format of the COTO standard specifications. Where, however, a clause has been amended under Section A2, the clause number is prefixed with a "P" in this Section.

TABLE A1.1-7: GENERAL

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA | | | | | | | | | |
|---|--------------------------------------|---|---|--|-------------------|--------------------|----------------------|---|--------------------------------------|---|---------------------------------|---|---|
| 1 | | | GENERAL | | | | | | | | | | |
| | A1.1 | | GENERAL PREAMBLE | | | | | | | | | | |
| | | PA1.1.2 | DEFINITIONS | | | | | | | | | | |
| | | | Conditions of Contract | The General Conditions of Contract for Construction Works, 2015, Third Edition, (GCC 2015)., shall apply | | | | | | | | | |
| | | | Site/ Site of Works | The limit of construction is provided in Part C4: Project Information and also shown on the Layout Plans | | | | | | | | | |
| | A1.2 | | GENERAL REQUIREMENTS AND PROVISIONS | | | | | | | | | | |
| | | A1.2.3 | GENERAL | | | | | | | | | | |
| | | | A1.2.3.4 Extension of time for delays caused by rainfall | | | | | | | | | | |
| | | | c) Method 2 (Critical path method with consequential delays) | Clause has been replaced with clause A1.2.3. Extension of time for delays caused by rainfall and delays caused by actions of airport authorities. Refer to C3.6 Project particular Specifications. | | | | | | | | | |
| | | | A1.2.3.9 Monthly reports | Other information to be included in monthly progress reports are as follows: Information as required in terms of Conditions of Contract | | | | | | | | | |
| | | | A1.2.3.10 Notices, signs and advertisements | Details of the contract sign board is provided in Drawing No: GP05-24-ACSA-580-4 | | | | | | | | | |
| | | | A1.2.3.12 Ownership of assets and disposal of non-usable assets | The Non-usable assets to be disposed by the Contractor is listed in the following disposal plan: Disposal plan | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>Asset description</th> <th>Estimated quantity</th> <th>Disposal requirement</th> </tr> </thead> <tbody> <tr> <td>Broken concrete from sidewalks, kerbs, channels, and structures</td> <td rowspan="4">To be determined during construction</td> <td rowspan="4">Arrange with BFIA maintenance personnel</td> </tr> <tr> <td>Damaged cable ducts and sleeves</td> </tr> <tr> <td>Excavated unsuitable material and contaminated soil</td> </tr> <tr> <td>Empty cement bags, packaging, and general</td> </tr> </tbody> </table> | Asset description | Estimated quantity | Disposal requirement | Broken concrete from sidewalks, kerbs, channels, and structures | To be determined during construction | Arrange with BFIA maintenance personnel | Damaged cable ducts and sleeves | Excavated unsuitable material and contaminated soil | Empty cement bags, packaging, and general |
| Asset description | Estimated quantity | Disposal requirement | | | | | | | | | | | |
| Broken concrete from sidewalks, kerbs, channels, and structures | To be determined during construction | Arrange with BFIA maintenance personnel | | | | | | | | | | | |
| Damaged cable ducts and sleeves | | | | | | | | | | | | | |
| Excavated unsuitable material and contaminated soil | | | | | | | | | | | | | |
| Empty cement bags, packaging, and general | | | | | | | | | | | | | |

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA | | | |
|--------------------|-------------|---------------|--|---|--------------------|--|--|
| | | | | <table border="1"> <tr> <td>construction waste</td> <td></td> <td></td> </tr> </table> | construction waste | | |
| construction waste | | | | | | | |
| | | | A1.2.3.22 Wayleaves/Agreements and Permits | <p>The Contractor shall be responsible for applying for the following wayleaves:</p> <p>Services detection will be required by Contractor prior to construction commencement.</p> | | | |
| | | A1.2.7 | EXECUTION OF THE WORKS | | | | |
| | | | PA1.2.7.1 Programme of work | | | | |
| | | | a) General | A Scheme 2 programme shall apply | | | |
| | | | b) Scheme 2 | The programme shall be drawn up or be compatible with MS Project | | | |
| | A1.3 | | CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS | | | | |
| | | A1.3.3 | GENERAL | | | | |
| | | | A1.3.3.1 Construction camps | ACSA-owned land is available for the use of the contractor for his construction camps, offices, stores, workshops and/or testing facilities. | | | |
| | A1.4 | | FACILITIES FOR THE ENGINEER | | | | |
| | | A1.4.3 | GENERAL | Site facilities to be provided by Contractor as specified and agreed with the Engineer | | | |
| | | A1.4.7 | EXECUTION OF THE WORKS | | | | |
| | | | A1.4.7.1 Offices and laboratories | The site shall be fenced with a 2,4m high security fence with a razor-cut wire being used as strands or with a brick wall. Refer to Pay item C1.4.8.1 | | | |
| | | | a) General | The site laboratory shall be supplied with three-phase electricity | | | |
| | | | b) Offices | As specified and agreed with the Engineer | | | |
| | | | c) Laboratories | As specified and agreed with the Engineer | | | |
| | | | f) Ablution unit | As specified and agreed with Engineer | | | |
| | | | A1.4.7.3 Services | | | | |
| | | | b) Water, electricity and gas | An on-site generator shall supply electricity when power from a recognized power-supply authority is not available to the Engineer's offices, laboratories and housing | | | |
| | | | A1.4.7.5 Office staff | None to be provided | | | |
| | A1.7 | | LOADING AND HAULING | | | | |
| | | A1.7.7 | EXECUTION OF WORKS | The Contractor must provide the Engineer with the certified carrying capacity of each vehicle before any construction materials can be transported | | | |

TABLE A2.1-2: SERVICES

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-------------|---------------|--|---|
| 2 | | | SERVICES | |
| | A2.1 | | GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES | |
| | | A2.1.1 | SCOPE | |
| | | | A2.1.1.2 Location, identification, protection and relocation of existing services | Location, identification, protection and relocation of existing services will be done on site with the assistance of ACSA maintenance personnel. |
| | | A2.1.3 | GENERAL | |
| | | | A2.1.3.2 Location, identification, protection and relocation of existing services | |
| | | | a) Existing as-built records | Incorporated in construction drawings |
| | | | A2.1.7.6 Ownership, removal and disposal of existing service materials | ACSA remains the owner of removed services unless this ownership is deferred. Contractor shall then become the owner of specific recovered service materials and shall be responsible for the disposal of the materials and for providing the Engineer with a full record of the disposal of the materials for control purposes |
| | A2.2 | | DRY SERVICES | |
| | | A2.2.1 | SCOPE | Service ducts to be installed for existing and/or new services at all taxiway/ roadway/ road crossings forming part of project, exact location of existing to be determined on site by appointed contractor. |
| | | | A2.2.1.1 General note | In certain SANS documents referred to in this Section the term “specified in the scope of work” is used. For the purposes of this specification the term shall be deemed to mean “specified in the Contract Documentation |
| | | A2.2.5 | MATERIALS | Ducts/ sleeves to be uPVC pipes and/or precast concrete pipes as shown on drawings or instructed by the Engineer |
| | | | A2.2.5.1 Ducts and sleeves | |
| | | | b) High Density Polyethylene (HDPE) ducts | |
| | | | (i) HDPE ducts installed by trenching | Corrugated HDPE cable ducts complying with the requirements of SANS IEC 61386-24: 2005 for sleeves to be laid in trenches |
| | | | ii) HDPE ducts installed by drilling | HDPE pipes for drilling shall be manufactured from PE63 – PN4 and shall comply with the requirements of SANS 427 |

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-----|----|---------------------------------------|---|
| | | | g) End caps or plugs | Tapered wooden plugs to be used with approval of Engineer where end plugs or caps are not available for specific duct types |
| | | | h) Draw wires and marker tapes | Draw wires to be 2,5mm galvanized steel wire |

TABLE A3.1-2: DRAINAGE

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-------------|---------------|---|--|
| 3 | | | DRAINAGE | |
| | A3.1 | | DRAINS | |
| | | A3.1.5 | MATERIALS | |
| | | | A3.1.5.2 Subsoil Drainage Materials a) Pipes | The pipes shall be uPVC, normal duty, complete with couplings: 100 mm internal dia, perforated or slotted 100 mm internal dia, unperforated 150 mm internal dia, perforated 150 mm internal dia, unperforated |
| | | A3.1.7 | EXECUTION OF THE WORKS | |
| | | | A3.1.7.5 Manholes, outlet structures and cleaning eyes | Refer to SANRAL Typical Detail for Subsurface Drainage Dwg No. GP05-24-ACSA-5801 TO 3. |
| | A3.2 | | CULVERTS | |
| | | A3.2.7 | EXECUTION OF THE WORKS | |
| | | | A3.2.7.4 Unsuitable founding conditions | Where the in-situ material is found to be unsuitable, it shall be removed to a depth as instructed by the engineer and then replaced with an approved selected material compacted to at least 93% Max. Dry Density (MDD) in layers not exceeding 150mm thickness |

TABLE A4.1-4: EARTHWORKS AND PAVEMENT LAYERS: MATERIALS

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-------------|---------------|--|---|
| 4 | | | EARTHWORKS AND PAVEMENT LAYERS: MATERIALS | |
| | A4.1 | | BORROW MATERIALS | |
| | | A4.1.3 | GENERAL | |
| | | | A4.1.3.1 Employer identified borrow pits and quarries | No borrow pits identified by Employer |
| | | A4.1.7 | EXECUTION OF WORKS | |
| | | | A4.1.7.3 Stockpiles | Part time Stock-pile Controller required: Senior General Foreman with min. 10 years' experience in borrow pit and quarry operations |
| | A4.2 | | CUT MATERIALS | |
| | | A4.2.7 | EXECUTION OF WORKS | |
| | | | A4.2.7.1 Excavation operations | |
| | | | a) Control at the cuttings, designated excavations and box cuts | Part time Materials Manager required: Senior General Foreman with min. 10 years' experience in earthworks operations |
| | | | i) Excavation of material in box cuts | Refer to Typical Cross Sections, Dwg No: GP05-24ACSA-512-1 |
| | A4.4 | | COMMERCIAL MATERIALS | |
| | | A4.4.5 | MATERIALS | |
| | | | A4.4.5.1 Earthworks and pavement layer materials | Material must be stockpiled separately with clear signage indicating for use |

TABLE A5.1-3: EARTHWORKS AND PAVEMENT LAYERS: CONSTRUCTION

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-------------|---------------|--|--|
| 5 | | | EARTHWORKS AND PAVEMENT LAYERS: CONSTRUCTION | |
| | A5.1 | | ROADBED | |
| | | A5.1.3 | GENERAL | |
| | | | A5.1.3.1 Roadbed material Investigation | Refer to Scope of Work description |
| | | A5.1.5 | MATERIALS | |
| | | | A5.1.5.2 Topsoil | To be obtained from construction site/ work areas and/or borrow pits or commercial sources, if required |
| | | A5.1.7 | EXECUTION OF WORKS | |
| | | | A5.1.7.1 Clearing and grubbing | Material obtained from clearing and grubbing to be removed from site |
| | | | A5.1.7.2 Removal and conservation of topsoil from roadbed | Topsoil shall be removed to either windrows alongside the construction area or to stockpile. Where ordered by the engineer, any topsoil that shall be required for the topsoiling, but which cannot be accommodated within the construction site, shall be loaded and hauled to the designated stockpile area where it shall be placed in temporary stockpiles for later use in the rehabilitation of the site affected by construction activities |
| | | | A5.1.7.3 Normal roadbed treatment | |
| | | | b) Removal of unsuitable roadbed material | To be spoiled in approved areas of borrow pits |
| | | | c) Percentage of Max Dry density (MDD) | All roadbed materials shall be scarified to a depth of at least 150mm and compacted to 93% of MDD |
| | | | g) Inactive clay and normal clay | Should such materials be encountered, it must be removed as per Standard Specifications |
| | | | h) Active Clay | Should such materials be encountered, it must be removed as per Standard Specifications |
| | | | <i>(ii) Alternative 2 – Roadbed construction by removal of active clay</i> | Active clay shall be removed to the bottom of the clay layer, or to a min. depth of 750mm below NGL. The removed material shall be replaced with compliant material (G7) and be compacted to 93% of MDD. |
| | | | i) Construction of a pioneer layer | As specified and instructed by the Engineer |
| | A5.3 | | ROAD PAVEMENT LAYERS | |
| | | A5.3.3 | GENERAL | |
| | | | A5.3.3.4 Compaction of pavement layer material | Refer to pavement specifications on Typical Cross Sections, Dwg No: GP05-24-ACSA-513-1 |

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-----|---------------|--|---|
| | | | A5.3.3.7 Joints between pavement layers | Joints in lower layers to be located as specified in the COTO standard specifications |
| | | | b) Longitudinal joints | Saw cut depth to be determined based on layer thicknesses, or as instructed by the Engineer |
| | | A5.3.5 | MATERIALS | |
| | | | A5.3.5.2 Pavement Layer thickness and compaction requirements | |
| | | | a) Pavement layer thickness requirements | Refer to Typical Cross Sections, Dwg No. GP05-24-ACSA-513-1 |

TABLE A6.2: CONCRETE LAYERS

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----------|-------------|---------------|---|--|
| 6 | | | CONCRETE LAYERS | |
| | A6.2 | | SEGMENTAL BLOCK PAVING LAYERS | |
| | | A6.2.5 | MATERIALS | |
| | | | A6.2.5.1 Paving blocks | The paving blocks shall be precast, of class 25 MPa, type S-A and thickness 80mm for Truck Turning. |
| | | | A6.2.5.4 Concrete beams, kerbs and channelling | Prefabricated kerbing and channelling shall comply with the requirements of Section A3.3 / B3.3 of Chapter 3. |
| | | A6.2.7 | EXECUTION OF THE WORKS | |
| | | | A6.2.7.1 Preparing the underlying layers. | See detail and material specifications on Typical pavement design, Dwg. No. GP05-24-ACSA-513-1 |
| | | | A6.2.7.4 Laying of the blocks. | The laying pattern and dimensions is indicated on the following Drawings: Layout Plans: Dwg. No. GP05-24-ACSA-502-1 and the Typical Cross Sections, Dwg No GP05-24-ACSA-512-1. Interlocking paving blocks to be laid in a herringbone pattern. |

TABLE A7.1: MAINTENANCE AND REPAIR OF CONCRETE LAYERS

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|-----------|-------------|---------------|--|--|
| 7 | | | CONCRETE LAYERS | |
| | A7.1 | | REPLACEMENT OF EXISTING JOINT SEALANT | |
| | | A7.1.5 | MATERIALS | |
| | | | A7.1.5.1 SEALANT | Works under this section account for removal of existing seal and backing material, reaming of existing joint and replacement of joint sealant for distressed jointing in front of Fire and Rescue Department. |

TABLE A8.1: PRETREATMENT AND REPAIR OF EXISTING LAYERS

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-------------|---------------|---|--|
| 8 | | | PRETREATMENT AND REPAIR OF EXISTING LAYERS | |
| | A8.1 | | PRIME COAT | |
| | | A8.1.3 | GENERAL | |
| | | | A8.1.3.1 Weather limitations | The limiting moisture contents for treated layers before priming shall be less than 50% of OMC. |
| | | A8.1.5 | MATERIALS | |
| | | | PA8.1.5.1 Bituminous material | The priming material shall be one of the following as specified in Part C: Measurement and Payment: MC-30 cut-back bitumen <u>or</u> Inverted bitumen emulsion. |
| | | A8.1.7 | EXECUTION OF THE WORKS | |
| | | | A8.1.7.5 Opening to traffic | A blinding layer is not specified on the drawings but will be directed by the Engineer where required. |

TABLE A9.1: ASPHALT LAYERS

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-------------|---------------|---|---|
| 9 | | | ASPHALT LAYERS | |
| | A9.1 | | ASPHALT LAYERS | |
| | | A9.1.2 | DEFINITIONS | |
| | | | Asphalt mix types | Sand skeletal mix; Continuously graded; NMPS 10mm; PG64S-16; Design Level I; minimum 45mm thickness. |
| | | | Aggregate | Refer to Standard Specifications. |
| | | A9.1.3 | GENERAL | |
| | | | Table A9.1.3-2: Nominal Mix Proportions of Sand Skeletal Mixes for Tender Purposes | NMPS.=10mm Aggregate%=92 Binder PG64S-16=7% Active Filler = 1% |
| | | A9.1.4 | DESIGN BY THE CONTRACTOR | |
| | | | A9.1.4.1 Mix Designs | Sand skeletal mix; Continuously graded; NMPS 10mm; PG64S-16; Design Level I; minimum 45mm thickness. |
| | | A9.1.5 | MATERIALS | |
| | | | A9.1.5.2 Bituminous binders for asphalt mixes | PG64S-16 |
| | | | A9.1.5.5 Fillers | Filler shall be hydrated lime. |
| | | A9.1.7 | EXECUTION OF THE WORKS | |
| | | | A9.1.7.8 Applying rolled-in chippings | Rolled-in chippings will not be used. |
| | | A9.1.8 | WORKMANSHIP | |
| | | | A9.1.8.8 Sampling | |
| | | | b) Coring of completed layers | The Contractor shall provide suitable coring machines capable of cutting 100mm or 150mm diameter cores from the completed asphalt layers. |

TABLE A11.7-8: ANCILLARY ROAD WORKS

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------------|----------------|--|---|------------|--------------|-------|----------------|------|-----|--------------------|--------------|-----|----------------|--------------|-----|-------------------|--------------------|-----|------------------|-------------|-----|-------------------|------------------|-----|----------------|---------------|-----|-------------------|---------------------|-----|--------------------|-----------------|-----|---------------------|------------------|-----|--|--------------------|-----|--------------|--|-------------|
| 11 | | | ANCILLARY ROAD WORKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | A11.7 | | ROAD MARKINGS AND ROAD STUDS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | A11.7.5 | MATERIALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | PA11.7.5.2 Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | a) Marking materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | (ii) Retro-reflective road marking | Water-borne road marking paint to be used, to be approved by ACSA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | (iii) Thermoplastic road marking material | Thermoplastic road marking paint to be applied at end of defects liability period, to be approved by ACSA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | A11.8 | | LANDSCAPING AND PLANTING PLANTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | A11.8.5 | MATERIALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | A11.8.5.2 Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | d) Grass seeds | The grass seed mixture shall be as follows (final mixture to be supplied and approved by ACSA): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>Latin Name</th> <th>English Name</th> <th>kg/ha</th> </tr> </thead> <tbody> <tr> <td>Eragrostis tef</td> <td>Teff</td> <td>2,0</td> </tr> <tr> <td>Digitaria eriantha</td> <td>Finger grass</td> <td>5,0</td> </tr> <tr> <td>Chloris guyana</td> <td>Rhodes grass</td> <td>4,0</td> </tr> <tr> <td>Cenchrus ciliaris</td> <td>Blue Buffalo grass</td> <td>4,0</td> </tr> <tr> <td>Cynodon dactylon</td> <td>Couch grass</td> <td>7,0</td> </tr> <tr> <td>Aristada congesta</td> <td>Three lawn grass</td> <td>2,5</td> </tr> <tr> <td>Melinis repens</td> <td>Natal red top</td> <td>2,5</td> </tr> <tr> <td>Panicum coloratum</td> <td>White Buffalo grass</td> <td>2,5</td> </tr> <tr> <td>Andropogum eucomus</td> <td>Snowflake grass</td> <td>2,5</td> </tr> <tr> <td>Imperata cylindrica</td> <td>Cottonwool grass</td> <td>2,5</td> </tr> <tr> <td></td> <td>Others to be added</td> <td>0,5</td> </tr> <tr> <td colspan="2">Total</td> <td>35,0</td> </tr> </tbody> </table> | Latin Name | English Name | kg/ha | Eragrostis tef | Teff | 2,0 | Digitaria eriantha | Finger grass | 5,0 | Chloris guyana | Rhodes grass | 4,0 | Cenchrus ciliaris | Blue Buffalo grass | 4,0 | Cynodon dactylon | Couch grass | 7,0 | Aristada congesta | Three lawn grass | 2,5 | Melinis repens | Natal red top | 2,5 | Panicum coloratum | White Buffalo grass | 2,5 | Andropogum eucomus | Snowflake grass | 2,5 | Imperata cylindrica | Cottonwool grass | 2,5 | | Others to be added | 0,5 | Total | | 35,0 |
| Latin Name | English Name | kg/ha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eragrostis tef | Teff | 2,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Digitaria eriantha | Finger grass | 5,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloris guyana | Rhodes grass | 4,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cenchrus ciliaris | Blue Buffalo grass | 4,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cynodon dactylon | Couch grass | 7,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aristada congesta | Three lawn grass | 2,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Melinis repens | Natal red top | 2,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Panicum coloratum | White Buffalo grass | 2,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Andropogum eucomus | Snowflake grass | 2,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Imperata cylindrica | Cottonwool grass | 2,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Others to be added | 0,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | 35,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE A12.11: GEOTECHNICAL APPLICATIONS

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|-----------------|---|---|----------|-------|--|--|--|--|----|----|----|---|---|--|----------|----------|----------|----------|----------|--|---|----|----|----|----|---|----|----|----|----|---------|---|----|----|----------------|--|--|
| 12 | | | GEOTECHNICAL APPLICATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | A12.11.3 | GENERAL | Refer to Standard Specifications. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | A12.11.5 | MATERIALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | A12.11.5.1 General | Geotextiles (non-woven) specified for the following applications: 1. Subsoil Drains | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | PA12.11.5.4 Grade Classification | <p>Table A12.11.5-1 shall be used for determining the grade of the geosynthetics:</p> <p>TABLE A12.11.5-1: Grade Classification of Geosynthetics</p> <table border="1"> <thead> <tr> <th rowspan="2">Property</th> <th colspan="5">GRADE</th> </tr> <tr> <th>1A</th> <th>1B</th> <th>1C</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>Penetration load (CBR) (minimum), N <i>Test Method: SANS 12236: 2013</i></td> <td>900 0</td> <td>440 0</td> <td>300 0</td> <td>240 0</td> <td>150 0</td> </tr> <tr> <td>Puncture resistance (maximum), mm <i>Test Method: SANS 13433: 2013</i></td> <td>9</td> <td>16</td> <td>18</td> <td>26</td> <td>32</td> </tr> <tr> <td>Water percolation (minimum), l/m²/s <i>Test Method: SANS 11058: 2013</i></td> <td>20</td> <td>20</td> <td>40</td> <td>50</td> <td>10 0</td> </tr> <tr> <td>Tensile strength (minimum) kN/m <i>Test Method: SANS 1525: 2013</i></td> <td>50</td> <td>25</td> <td colspan="3">Not applicable</td> </tr> </tbody> </table> | Property | GRADE | | | | | 1A | 1B | 1C | 2 | 3 | Penetration load (CBR) (minimum), N <i>Test Method: SANS 12236: 2013</i> | 900 0 | 440 0 | 300 0 | 240 0 | 150 0 | Puncture resistance (maximum), mm <i>Test Method: SANS 13433: 2013</i> | 9 | 16 | 18 | 26 | 32 | Water percolation (minimum), l/m²/s <i>Test Method: SANS 11058: 2013</i> | 20 | 20 | 40 | 50 | 10 0 | Tensile strength (minimum) kN/m <i>Test Method: SANS 1525: 2013</i> | 50 | 25 | Not applicable | | |
| Property | GRADE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1A | 1B | 1C | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Penetration load (CBR) (minimum), N <i>Test Method: SANS 12236: 2013</i> | 900 0 | 440 0 | 300 0 | 240 0 | 150 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Puncture resistance (maximum), mm <i>Test Method: SANS 13433: 2013</i> | 9 | 16 | 18 | 26 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water percolation (minimum), l/m²/s <i>Test Method: SANS 11058: 2013</i> | 20 | 20 | 40 | 50 | 10 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tensile strength (minimum) kN/m <i>Test Method: SANS 1525: 2013</i> | 50 | 25 | Not applicable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE A20.1: QUALITY ASSURANCE

| CH | SEC | CL | SUB-CLAUSE | SPECIFICATION DATA |
|----|-------|---------|---|---|
| 20 | | | QUALITY ASSURANCE | |
| | A20.1 | | TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP | |
| | | A20.1.3 | TESTING METHODS | |
| | | | A20.1.3.3 The Costs of Testing | |
| | | | a) Material and workmanship for quality control | Testing will be undertaken by an independent commercial laboratory as indicated under A20.1.3.3 a)(i)3. |



BRAM FISCHER

INTERNATIONAL AIRPORT

AIRPORTS COMPANY SOUTH AFRICA

AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

C3.7: ACSA SPECIFICATIONS

The Specifications herein are Specifications prepared by the employer applicable to this contract. Three Specifications are included:

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C3.7.1: OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS

- 1. ACSA OHS Specifications**
- 2. Project Specific Health and Safety Specifications**

C3.7.2: ENVIRONMENTAL WORK INSTRUCTIONS

- 1. ACSA Environmental Specifications Overview**
- 2. Environmental Particular Specifications**

C3.7.3: REQUIREMENTS OF GOVERNMENT'S PROGRAMME FOR BROAD-BASED BLACK

- 1. Scope**
- 2. Definitions**
- 3. Contract Participation**

C3.7.1: OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS

This part of the Specifications contains comprehensive occupational health and safety specifications.

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- 1. Introduction**
- 2. Standard Occupational Health and Safety Specification**
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- 5. Guidelines for the Development of a Health & Safety Plan**
- 6. Appointment of Safety Personnel**
- 7. Project / Site Specific Requirements**
- 8. Health and Safety File**
- 9. Risk Assessment**
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- 11. Measurement and Payment**

SECTION 2: PROJECT SPECIFIC HEALTH AND SAFETY SPECIFICATIONS

- 1. Specific Project Information**
- 2. Further Requirements**

PART 1: ACSA OHS SPECIFICATIONS

1. INTRODUCTION

1.1 Purpose of the Occupational Health and Safety Specification

The purpose of the OHSS is to assist Contractors to achieve compliance with the Occupational Health and Safety law, in order to reduce incidents and injuries. The OHSS will be implemented during the construction of this project or any construction activity that the Employer has control over.

The OHSS is a performance specification to ensure that the Employer and any bodies that enter into formal agreements with the Employer viz. Agents, Consultants and Contractors achieve an acceptable level of OHS performance. No advice, approval of any document required by the OHSS such as hazard identification and risk assessment action plan or any other form of communication from the Employer shall be construed as an acceptance by the Employer of any obligation that absolves the Contractor from achieving the required level of performance and compliance with legal requirements. Further, there is no acceptance of liability by the Employer which may result from the Contractor failing to comply with the OHSS, i.e. the Contractor remains responsible for achieving the required performance levels.

1.2 Implementation of the Occupational Health and Safety Specification

This OHSS forms an integral part of the Contract, and Contractors are required to make it an integral part of their Contracts with Sub-Contractors and Suppliers. It will be disseminated by the Employer to persons responsible for and inspection of the design of the infrastructure works, who will ensure that it is included in the Tender Document(s) issued to prospective Contractors. The prospective Contractors shall incorporate the requirements of the OHSS in their submission of tenders to the Employer as well as provide health and safety plans for evaluation.

This specification must be read in conjunction with the OHS Act No 85 of 1993 (as amended), the Regulations as published in Government Gazette No 7721 of 18 July 2003 as well as the General Safety Regulations published in Government notice No. R 1031 of 30 May 1986, as amended. The OHS Act Agreement in this document (Returnable Schedules) must be fully completed by the Contractor.

2. STANDARD OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

2.1 Scope

This OHSS covers the requirements for eliminating and mitigating incidents and injuries in all Employer controlled projects.

The scope also addresses legal compliance, hazard identification and risk control, promoting a health and safety culture amongst those working on ACSA projects and those affected by the activities taking place in and around them.

2.2 Interpretations

2.2.1 Application

The OHSS contains clauses that are applicable to building / construction and that impose pro-active controls associated with activities that impact on human health and safety as they relate to plant and machinery.

Compliance to the requirements of the OHS Act, Construction Regulations and General Safety Regulations is in addition to the requirements of the OHSS and is part of the Contractor's responsibility. The Employer will through the Agents, as appointed, monitor that the Contractor complies with the requirements of the OHS Act and will not prescribe to the Contractor how such compliance is achieved.

Definitions

The definitions used will be those set out in the Regulation Gazette No 7721 of 18 July 2003 with the following addition:

ACSA: Airports Company South Africa

Hazard Identification and Risk Assessment and Risk Control:

Means a documented plan, which identifies hazards, assesses the risks and details the control measures and safe working procedures which are to be used to mitigate and control the occurrence of hazards and risks during construction or operation phases.

Health and Safety Management Plan:

Means a documented plan which addresses the OHSS requirements hazards identified and include safe working procedures to mitigate, reduce or control the hazards identified.

Induction Training:

Means once off introductory training on general health and safety issues as well as project specific matters given to all employees before commencement of work or other visitors to the site.

Risk:

Means the probability or likelihood that a hazard can result in injury or damage.

Site:

Means the area in the possession of the Contractor for the construction of the works. Where there is no demarcated boundary it will include all adjacent areas, which are reasonably required for the activities for the Contractor, and approved for such use by the Engineer.

The Act:

Means, unless the context indicates otherwise, the Occupational Health and Safety Act, 1993 (Act NO. 85 of 1993) and Regulations promulgated there under.

Contractor:

The Contractor terminology used in these specifications shall be deemed to cover Principle Contractor, Contractors and Sub-Contractors.

3. REQUIREMENTS AT TENDER STAGE

The Contractor shall make available the following with his completed tender:

A Health and Safety Plan as described in Regulation 7 of the Construction Regulations. The Safety Plan must be based on the Construction Regulations 2014 and this specification and will be subject to approval by the Employer. This will include a Hazard Identification and Risk Assessment appropriate to the project, expansion of Annexure D, and a declaration to the effect that he has the competence, completion of Occupational Health and Safety Questionnaire, and necessary resources to carry out the work safely in compliance with the Construction Regulations 2014.

Failure to submit the foregoing with his tender, will lead to the conclusion that the Contractor is not able to carry out the work under the contract safely in accordance with the Construction Regulations and may result in the tender being disqualified.

4. NOTIFICATION OF COMMENCEMENT OF CONSTRUCTION WORK

Due to the estimated project cost the Clients Health and Safety Agent will apply for a construction works permit. No construction or related work such as site establishment or delivery of any equipment or material may commence before the construction works permit has been received and the Engineer approved the start of the works.

The Contractor will have **10 days** after the Acceptance of Tender, to submit the required Documentation for the Department of Labour. This includes:

- Safety Plan with Baseline Risk Assessment
- Approved SHEQ BOQ- (priced)
- Signed mandatory agreement (Sec 37,2 & 5.1(k))
- Site organogram
- Valid proof of letter of good standing
- Profile of appointed Construction Manager in terms of CR 8(1)
- Profile of appointed Health and Safety Officer in terms of CR 8(5)
- Profile of appointed Health and Safety Manager in terms of CR 8

A copy of the construction works permit must be conspicuously displayed at the main entrance to the site as well as be kept on the health and safety files, and be available for inspection by inspectors, Employer, Engineer, employees and other duly authorised persons on site.

5. GUIDELINES FOR THE DEVELOPMENT OF A HEALTH & SAFETY PLAN

5.1 Background

In terms of the Construction Regulations [Regulation 5 (1) (b)] of the Occupational Health and Safety Act, No 85 of 1993, the Client is required to compile an Occupational Health and Safety specification for each of its projects and the Contractor, appointed by the Client in terms of Regulation 5 (1) (k), is required to prepare an Occupational Health and Safety Plan. This plan has to be prepared in terms of Regulation 7 (1)(a) as well as the Client's Occupational Health & Safety Specification. In terms of Regulation 5 (1)(l), the Client and the Contractor are required to agree on the Occupational Health and Safety Plan before any work may commence.

5.2 Framework for an Occupational Health and Safety Plan

5.2.1 Introduction

The Contractor has to demonstrate to the Client that he has a suitable and sufficiently documented Occupational Health and Safety Plan as well as the necessary competencies, experience and resources to perform the construction work safely. The Contractor is required to submit, the following documentation for perusal and verification by the Client:

- Management Structure including an organogram – Tender Stage
- Quality Plan – Tender Stage
- Human Resources Plan – Tender Stage
- Registered Workplace Skills Plan
- “Letter of good standing” from the Compensation Commissioner or licensed compensation insurer – Tender Stage
- Proof of induction and other training of employees
- Example copies of minutes of previous Occupational Health and Safety Committee meetings and copies of Incident Investigation Reports

5.2.2 Contents of an Occupational Health and Safety Plan

The Occupational Health and Safety Plan shall include the following:

5.2.2.1 Occupational Health and Safety Management Programme

- Management of Occupational Health and Safety risks
- Occupational Health and Safety structures and appointments
- Programme of Occupational Health and Safety inspections
- Occupational Health and Safety Representatives
- Occupational Health and Safety committee

5.2.2.2 Statement Regarding the Communication and Management of the Work

- Management structure and responsibilities
- Occupational Health and Safety objectives for the project and arrangements for monitoring and review of Occupational Health and Safety performance
- Arrangements for regular liaison between parties on site
- Consultation with the workforce
- The exchange of design information between the Client, Engineer, supervisors and subcontractors on site
- Handling design changes during the project
- Selection and control of subcontractors
- The exchange of Occupational Health and Safety information between all subcontractors
- Security
- Site induction and on site training
- Facilities and first-aid
- The reporting and investigation of accidents and incidents
- The production and approval of risk assessments and method statements
- Site Occupational Health and Safety rules
- Fire and emergency procedures
- Reporting to the Client i.e. results of Occupational Health and Safety inspections.
- Incident investigations and committee meetings
- Reporting of incidents to the Department of Labour and Compensation Commissioner where appropriate

6. APPOINTMENT OF SAFETY PERSONNEL

6.1 Construction Supervision

In terms of Section 16 of the Act, the Chief Executive Officer of the Contractor may delegate, in writing, part or all of his powers to a suitable person on the site.

The Contractor shall appoint a full-time Construction Manager, in writing, in terms of Section 8.(1) of the Construction Regulations who is duly accredited by SACPCMP, with the duty of supervising the performance of the construction work as well as ensuring occupational health and safety compliance.

He may also have to appoint one or more competent employees to assist the construction manager where justified by the scope and complexity of the works as well as an Alternate Construction Manager when applicable.

6.2 Construction safety officer

In terms of Section 8(5) of the Construction Regulations the Contractor shall appoint in writing a full-time Construction Safety Officer which is duly accredited by SACPCMP. The Safety Officer shall have the necessary competence and resources to perform his duties diligently.

Provision will be made in the Bill of Quantities to cover the cost of a dedicated construction safety officer appointed after award of the contract.

6.3 Health and safety representatives

In terms of Sections 17 and 18 of the Act (OHSA 1993) the Contractor shall appoint, in writing, a health and safety representative whenever he has more than 20 employees in his employ on the works. The health and safety representative must be selected from employees who are employed in a full-time capacity at a specific workplace.

The number of health and safety representatives for a workplace shall be at least one for every 50 employees which will include the employees of subcontractors

The function of the health and safety representative(s) will be to review the effectiveness of health and safety measures, to identify potential hazards and major incidents, to examine causes of incidents (in collaboration with his employer, the Contractor), to investigate complaints by employees relating to health and safety at work, to make representations to the employer (Contractor) or inspector on general matters affecting the health and safety of employees, to inspect the workplace, plant, machinery etc. on a regular base, but at least on a weekly basis to participate in consultations with inspectors and to attend meetings of the health and safety committee.

6.4 Health and safety committee

In terms of Sections 17,18 and 19 of the Act (OHSA 1993) the Contractor (as employer), shall establish one or more health and safety committee(s) where there are two or more health and safety representatives at a workplace. The persons selected by the employees and appointed by the Contractor to serve on the committee shall be designated in writing.

The function of the health and safety committee shall be to hold meetings at regular intervals, but at least once every three months, to review the health and safety measures on the contract, to discuss incidents related to health and safety with the Contractor's representative and any Department of Labour inspector, and to make recommendations regarding health and safety to the Contractor and to keep record of meetings, recommendations and reports made by the committee.

6.5 Competent persons

In accordance with the Construction Regulations the Contractor shall appoint, in writing, competent persons responsible for supervising construction work for the following work situations that may be expected on the site of the works, as applicable to the project.

- Risk assessment (Regulation 9);
- Fall protection (Regulation 10);
- Excavation work (Regulation 13);
- Demolition work (Regulation 14);
- Suspended platform operations (Regulation 17);
- Material Hoists (Regulation 19);
- Bulk mixing plant operations (Regulation 208);
- Explosive actuated fastening device (Regulation 21)
- Construction vehicle and mobile plant (Regulation 23);
- Use of temporary storage of flammable liquids on construction site (Regulation 25);
- Water environments (Regulation 26);
- Housekeeping on construction sites (Regulation 27)
- Stacking and storage on construction sites (Regulation 28);
- Fire precautions on construction sites (Regulation 29); and
- Construction employees' facilities (Regulation 308).

A competent person may be appointed for more than one part of the construction work with the understanding that the person must be suitably qualified and able to supervise at the same time the construction work on all the work situations for which he has been appointed.

The appointment of competent persons to supervise parts of the construction work does not relieve the Contractor from any of his responsibilities to comply with all requirements of the Construction Regulations.

7. PROJECT / SITE SPECIFIC REQUIREMENTS

A list of activities and considerations that have been identified for the project and the construction site and for which Risk Assessments, Standard Working Procedures (SWP), management and control measures and Method Statements (where necessary) have to be developed by the Principal Contractor is given in Annexure D. This list is not to be considered as inclusive and other items must be added as required.

In addition, the following health risks should be taken into account. It may become necessary to include others according to the requirements of the project.

Health risks

- Health risks arising from neighbouring as well as own activities and from the environment e.g. threats by dogs, bees, snakes, inclement weather etc.
- Exposure to noise
- Exposure to vibration
- Protection against dehydration and heat exhaustion
- Protection from wet & cold conditions
- Exposure to hazardous substances and chemicals used on site.

Emergency Procedures

The Principal Contractor shall submit a detailed Emergency Procedure for approval by the Client prior to commencement on site. The procedure shall detail the response plan including the following key elements:

- List of key competent personnel
- Details of emergency services
- Actions or steps to be taken in the event of the specific types of emergencies
- Information on hazardous material/situations.

Emergency procedure(s) shall include, but shall not be limited to, fire, spills, accidents to employees, use of hazardous substances, bomb threats, major incidents/accidents, etc. The Principal Contractor shall advise the Client, Agent, Engineer and all relevant authorities forthwith, of any emergencies, together with a record of action taken. This shall be confirmed in writing as soon as possible after the incident. A contact list of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, Construction Manager, Safety Officer etc) must be maintained and available to site personnel. These procedures shall form part of the Health and Safety Plan.

First Aid Boxes and First Aid Equipment

The Principal Contractor and all Contractors shall appoint in writing First Aider(s). If not already accredited, the appointed First Aider(s) are to be sent for accredited first aid training. Valid certificates are to be kept on site. The Principal Contractor shall provide an on-site First Aid Station with first aid facilities, including first aid boxes containing, at least, the requirements of the Annexure to Section 3 of the General Safety Regulations. All Contractors with 5 or more employees shall supply their own first aid box. Contractors with 10 or more employees shall have a trained and certified First Aider on site at all times.

Personal Protective Equipment (PPE) and Clothing

The Principal Contractor shall ensure that all employees are issued with and shall wear hard hats, protective footwear and overalls as well as any other necessary PPE as set out in Section 2.3 of the General Safety Regulations. Contractors are encouraged to provide reflective vests for all their employees. The Principal Contractor and all Contractors shall make provision and keep adequate quantities of SABS approved PPE on site at all times. This shall include necessary safety gear for visitors. The Principal Contractor shall clearly outline procedures to be taken when PPE or Clothing is:

- Lost or stolen
- Worn out or damaged
- Issued to temporary employees.

The above procedure applies to Contractors and their Sub-contractors, as they are all Employers in their own right.

Occupational Health and Safety Signage

The Contractor shall provide adequate on-site OHS signage. This should include but is not limited to: 'no unauthorised entry', 'report to site office', 'site office', 'beware of overhead work', 'hard hat area'. Signage shall be posted up at all entrances to site as well as on site in strategic locations e.g. access routes, stairways, entrances to structures and buildings, and other potential risk areas/operations. These signs shall be in accordance with the requirements of the General Safety Regulations as amended.

8. HEALTH AND SAFETY FILE

The Contractor shall in terms of Construction Regulation 7(1)(b) maintain a Health and Safety File on site at all times. The Health and Safety File is a file or other permanent record containing information on aspects of the construction project - which will be necessary to ensure the health and safety of any person who may be affected by the construction work.

The Contractor shall appoint a suitably qualified person to prepare the Health and Safety File and to keep it up to date for the duration of the contract. The Health and Safety file shall include at least the following information:

- All Documents as required by the Act and Regulations
- All reports of inspections and audits
- All non-conformity reports
- All working drawings, calculations and design where applicable
- Detailed list of sub-contractors with contact details
- List of all hazardous materials used and stored on site with Material Safety Data Sheets
- All Hazard Identification and Risk Assessments carried out for the project.
- All Health and Safety Plans for the project.
- All safe working procedures and method statements
- Minutes of all relevant meetings
- Incident records, including investigations and results
- Record of all appointments under the Regulations

Annexure B is a list of the records to be kept on site.

The Health & Safety File shall be handed over to the Client on completion of the contract. It must contain all the documentation as set out above, or as instructed, as well as any handed to the Principle Contractor by any subcontractors together with a record of all drawings, designs, materials used and other similar information concerning the completed project.

9. RISK ASSESSMENT

Before commencement of any construction work during the construction period, the Contractor shall have a risk assessment performed and recorded in writing by a competent person. (Refer Regulation 9 of the Construction Regulations 2014).

Risk is a measure of the likelihood that the harm from a particular hazard will be realised, taking into account the possible severity of the harm. Harm to people includes death, injury (permanent or temporary), physical or mental health or any combination thereof. Risk management in health and safety includes the identification of hazards, assessing risks, taking action to eliminate or reduce the risk, monitoring the effectiveness and performing regular reviews of the entire process. The Contractor shall compile method statements to address or handle the following:

- Hazards particulars to the contract
- Identify what could go wrong and how
- Identify the likelihood of this happening
- Identify the persons or asset at risk
- Identify the extent of possible harm
- Eliminating or reducing this risk
- A monitoring plan
- A review plan

Contractors must ensure that all subcontractors conduct risk assessments for their scope of work as well. All risk assessments shall be updated and re-evaluated with any extra works or with any change to the scope of the works.

The risk assessment shall identify and evaluate the risks and hazards that may be expected during the execution of the work under the contract, and it shall include a documented plan of safe work procedures to mitigate, reduce or control the risks and hazards identified.

The risk assessment shall be available on site for inspection by inspectors, Employer, Engineer, Health and Safety Agent, subcontractors, employees, trade unions and health and safety committee members, and must be monitored and reviewed periodically by the Contractor.

10. ARRANGEMENTS FOR MONITORING AND REVIEW

The Client and/or Agent will conduct a Monthly, or at greater frequency, Audit to audit compliance with Construction Regulation 5 (1) (o) to ensure that the Contractor has implemented and is maintaining the agreed and approved OH&S Plan. Annexure C will be used as format when conducting the audit.

The Client reserves the right to conduct other ad hoc audits and inspections as deemed necessary.

A representative of the Contractor must accompany the Client on all audits and inspections and may conduct his own audit/inspection at the same time. Each party will, however, take responsibility for the results of his own audit/inspection results.

11. MEASUREMENT AND PAYMENT

In tendering rates for these items the Contractor shall ensure that the sum of the amounts of the four items shall be based upon as well as be expressed as a percentage (i.e. 1%) of the Work Value of the Tender (Total: Schedule A).

| “Item Description | Unit |
|---|----------|
| C1.2.5.1 Health and safety plan..... | Lump Sum |

The full amount will be paid in one instalment only once:-

- (a) The construction works permit has been issued by the Department of Labour .
- (b) The Contractor has made the required initial Appointments of Employees and Sub-Contractors.
- (c) The Client has approved the Contractor’s Health and Safety Plan.
- (d) The Contractor has set up his Health and Safety File.”

| “Item | Unit |
|---|-------|
| C1.2.5.2 Implementation of health and safety plan..... | Month |

The tendered rate shall represent full compensation for that part of the contractors general obligations in terms of the Occupational Health and Safety Act and the Construction Regulations which are mainly a function of time. The sum will be paid per month only after payment for Item C1.2.5.1 has been made. This item shall also cover all updates of the files, plans and reports associated with the Occupational Health and Safety Act and the Construction Regulations.”

Add the following pay items:

| | |
|---|-------|
| C1.2.5.3 Provision of full time Construction Safety Officer..... | Month |
|---|-------|

The tendered sum shall include for the cost of a SACPCMP accredited construction safety officer on a full time basis, his overheads, transport and all others items necessary for the proper carrying out of his duties. .”

| | |
|---|----------|
| C1.2.5.4 Submission of the Health and Safety File..... | Lump Sum |
|---|----------|

This amount will be paid only once the Contractor has met all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and has submitted his Health and Safety File complete as envisaged on this specification to the Client’s satisfaction. This must be done prior to the issue of a Certificate of Completion.”

PART 2: PROJECT SPECIFIC HEALTH AND SAFETY SPECIFICATIONS

Occupational Health and Safety Specification

In terms of Construction Regulations 2014

Client

ACSA

Description of Project Works

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

Project Location

BRAM FISCHER INTERNATIONAL AIRPORT

Date

October 2025

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PART 1. INTRODUCTION

1.1 Introduction to the Health and Safety Specification

The Construction Regulations 2014 places the responsibility on the Client to prepare a Health & Safety Specification, which informs the appointed contractor on all the risks not successfully eliminated during design.

1.2 Purpose of the Health and Safety Specification

To assist in achieving compliance with the Occupational Health & Safety Act 85/1993 and the Construction Regulations 2014, in order to reduce incidents and injuries. This specification shall act as the basis for the drafting of the construction health & safety plan by the Principal Contractor and all subsequent health & safety plans by Contractors.

The Health and Safety Specification sets out the intention of the Client, Designer and appointed Construction Health and Safety Agent (CHSA). It also includes arrangements made by the CHS Agent to ensure that the parties involved in the project co-operate and co-ordinate their activities, to remove or minimise the risks to health and safety of those who are involved in the construction project, or who may be affected by the work activities.

This document sets out the requirements, under a number of pieces of Health and Safety Legislation, for the successful health and safety management of the Project by the Principal Contractor in accordance with the requirements set out in this Health and Safety Specification. The Principal Contractor will be expected to ensure that their Health & Safety Management plan is aligned with this specification and to any ACSA issued requirements.

1.3 Implementation of the Health and Safety Specification

This specification forms an integral part of the project, and the Principal Contractor is required to use it when drawing up their project-specific construction Health & Safety Plan and project-specific construction Health & Safety Compliance File. The Principal Contractor shall forward a copy or the applicable part of this specification to all Contractors, so that they can in turn prepare Health & Safety plans relating to their respective scope of works. The Construction Health and Safety Plan must be handed to OHS Agent within 7 working days of receipt of this Health and Safety Specification upon appointment of the Principal Contractor and subsequent drafted and submitted as part of the BOQ and Bid document for the project.

1.4 Definitions

Construction Regulations 2014

"**agent**" means a competent person who acts as a representative for a client.

"**angle of repose**" means the steepest angle of a surface at which a mass of loose or fragmented material will remain stationary in a pile on the surface, rather than sliding or crumbling away;

"**bulk mixing plant**" means machinery, appliances or other similar devices that are assembled in such a manner so as to be able to mix materials in bulk for the purposes of using the mixed product for construction work;

"**client**" means any person for whom construction work is being performed;

"**competent person**" means a person who—

a) has in respect of the work or task to be performed the required knowledge, training and experience and, where applicable, qualifications, specific to that work or task: Provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), those qualifications and that training must be regarded as the required qualifications and training; and b) is familiar with the Act and with the applicable regulations made under the Act;

"**construction manager**" means a competent person responsible for the management of the physical construction processes and the coordination, administration and management of resources on a construction site;

"**construction site**" means a work place where construction work is being performed;

"**construction supervisor**" means a competent person responsible for supervising construction activities on a construction site;

"**construction vehicle**" means a vehicle used as a means of conveyance for transporting persons or material, or persons and material, on and off the construction site for the purposes of performing construction work;

"**construction work**" means any work in connection with—

a) the construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure; or

b) the construction, erection, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system; or the moving of earth, clearing of land, the making of excavation, piling, or any similar civil engineering structure or type of work;

"**construction work permit**" means a document issued in terms of regulation 3

"**contractor**" means an employer who performs construction work;

"**demolition work**" means a method to dismantle, wreck, break, pull down or knock down of a structure or part thereof by way of manual labour, machinery, or the use of explosives;

"**design**" in relation to any structure, includes drawings, calculations, design details and specifications;

"**designer**" means—

(a) a competent person who—

(i) prepares a design;

(ii) checks and approves a design; or

(iii) arranges for any person at work under his or her control to prepare a design (including an employee of that person where he or she is the employer); or

(iv) designs temporary work, including its components,

(b) an architect or engineer contributing to, or having overall responsibility for a design;

(c) a building services engineer designing details for fixed plant;

(d) a surveyor specifying articles or drawing up specifications;

(e) a contractor carrying out design work as part of a design and building project; or

(f) an interior designer, shop-fitter or landscape architect;

"**excavation work**" means the making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping;

"**explosive actuated fastening device**" means a tool that is activated by an explosive charge and that is used for driving bolts, nails and similar objects for the purpose of providing fixing. Change explosive power tools to explosive actuated fastening device;

"**fall arrest equipment**" means equipment used to arrest a person in a fall, including personal equipment such as body harness, lanyards, deceleration devices, lifelines or similar equipment.

"fall prevention equipment" means equipment used to prevent persons from falling from a fall risk position, including personal equipment, a body harness, lanyards, lifelines or physical equipment such as guardrails, screens, barricades, anchorages or similar equipment;

"fall protection plan" means a documented plan, which includes and provides for-

- a) all risks relating to working from a fall risk position, considering the nature of work undertaken;
- b) the procedures and methods to be applied in order to eliminate the risk of falling; and
- c) a rescue plan and procedures

"fall risk" means any potential exposure to falling either from, off or into;

"health and safety file" means a file, or other record containing the information in writing required by these Regulations;

"health and safety plan" means a site, activity or project specific documented plan in accordance with the client's health and safety specification;

"health and safety specification" means a site, activity or project specific document prepared by the client pertaining to all health and safety requirements related to construction work;

"material hoist" means a hoist used to lower or raise material and equipment, excluding passengers;

"medical certificate of fitness" means a certificate contemplated in regulation 7(1)(8);

"mobile plant" means any machinery, appliance or other similar device that is able to move independently, and is used for the purpose of performing construction work on a construction site;

"National Building Regulations" means the National Building Regulations made under the National Building Regulations and Building Standards Act, 1977 (Act No. 103 of 1977), and promulgated by Government Notice No. R. 2378 of 30 July 1990, as amended by Government Notices No's R. 432 of 8 March 1991, R. 919 of 30 July 1999 and R. 547 of 30 May 2008;

"person day" means one normal working shift of carrying out construction work by a person on a construction site;

"principal contractor" means an employer appointed by the client to perform construction work;

"Professional Engineer or Professional Certificated Engineer" means a person holding registration as either a Professional Engineer or Professional Certificated Engineer in terms of the Engineering Profession Act, 2000 (Act No. 46 of 2000);

"Professional Technologist" means a person holding registration as a Professional means a person holding registration as a Professional Engineering Technologist in terms of the Engineering Profession Act, 2000;

"provincial director" means the provincial director as defined in regulation 1 of the General Administrative Regulations, 2003;

"scaffold" means a temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both;

"shoring" means a system used to support the sides of an excavation and which is intended to prevent the cave-in or the collapse of the sides of an excavation;

"structure" means—

a) any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, bulk mixing plant, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;

b) any falsework, scaffold or other structure designed or used to provide support or means of access during construction work; or

c) any fixed plant in respect of construction work which includes installation, commissioning, decommissioning or dismantling and where any construction work involves a risk of a person falling;

"suspended platform" means a working platform suspended from supports by means of one or more separate ropes from each support;

"temporary works" means any falsework, formwork, support work, scaffold, shoring or other temporary structure designed to provide support or means of access during construction work;

"the Act" means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);

"tunneling" means the construction of any tunnel beneath the natural surface of the earth for a purpose other than the searching for or winning of a mineral.

PART 2. HEALTH AND SAFETY SPECIFICATION

Project Contacts & Details:

| | |
|-----------------------|---|
| Project name | CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS |
| Start Date | TBC |
| End Date | TBC |
| Client – CR5.1 | AIRPORTS COMPANY SOUTH AFRICA (ACSA) |

2.1 General Project Information

Brief: This project consists of two projects that were brought together for ease of execution. The first project is the underground main water line project which addresses the water supply challenges at BFIA and the second project is the Service Road project which addresses road infrastructure challenges at the airport.

Main water lines:

- Upgrade the main water line that is running through the terminal building basement complete with isolation valves.
- Construct new domestic water line from Mangaung Municipality at Masselspoort water line to provide an additional water feeder to the airport reservoirs.
- installation of two new water bore holes on airport for emergency situations during municipal water shutdowns.
- Upgrade the fire water pump to comply with SANS and ASIB Regulations.
- Removal of old asbestos pipe.
- Replacing all eight (8) hydrant boosters including pipelines
- Re-establish the other leg of the booster pipeline that was previously blanked off to increase the hydrant boosters by an additional two (2) taking the total hydrant boosters to ten (10).
- The upgrading the fire hydrant water line to a minimum of 5 bar when 2 out of 10 fire hydrants are opened simultaneously.

Service Roads:

- Provision of land-side access for solar plant farm ad reservoir pump station including the road to the solar plant. This entails new junctions/intersection to the facilities.
- Provision of all-weather surface to the land-side truck turning circle, which is predominantly used by heavy vehicles.
- Repair of the concrete standing panels outside of the fire station (airside).
- Rehabilitation of the airside service road adjacent to the main terminal building.
- Provision of all-weather surfaced road around the maintenance complex.
- Rehabilitation/improvement of the stormwater management associated with the service roads.

2.2 Health and Safety Aims and Policy

The aim of this Health and Safety Specification is to ensure that health and safety management will be planned into the work undertaken by the Principal Contractor on this specific project to achieve the following:

- To put into practical effect the commitment made by the Principal Contractor in their own health and safety policy statement;
- To ensure that, where necessary, the changes in attitude of all those involved with the project take place. The result should be the acceptance of responsibility, towards the health and safety objectives;
- To develop further good health and safety management practices on this contract and future contracts undertaken by the client.

Other aims specific to this Project:

- To ensure that high standards of health and safety performance are achieved in:
 - a) Co-operation with the CHS Agent and other contractors involved on the project.
 - b) Reducing accidents, ill health and injury to persons and damage to property, when undertaking work on the project.
 - c) Ensuring that the construction activities are carried out in a manner as to not affect any neighbouring buildings and the operations of the Bram Fischer International Airport.
 - d) Ensure that environmental considerations are adhered to.

Construction Project Health & Safety Policy

It is the intention of ACSA to demonstrate an ongoing and determined commitment to improving health and safety at work throughout our organisation and through any project executed on the premises of the ACSA project.

We shall strive to ensure the health and safety at work for all our staff, visitors and workers of ACSA, and shall ensure that we will comply with requirements of health and safety legislation.

With the assistance of CHS Agent, whom ACSA have appointed to manage all project related occupational health and safety requirements, we shall be guided in promoting the best practice and exceeding the basic requirements.

This policy reflects our commitment to ensuring that health and safety is of paramount importance to the organisation and that effective health and safety contributes to our success within ACSA.

2.3 Health and Safety Targets

The following health and safety targets have been set for achievement during the period of this project.

- The achievement, by the Principal Contractor, of an accident-free project, as far as possible, with the prevention of all accidents, and the achievement of a “no lost time” accident rate.
- The workforce’s co-operation in ensuring that safety is everybody’s responsibility.
- A proactive approach to health and safety by the construction management team.
- That safe working will be a condition of employment in all contractors’ organisations.
- Ensure that day visitors are kept clear from any possible hazards of the construction phase.
- Ensure that the health & safety of all staff and employees is not affected by any activity arising out of or during this project.
- Ensure that the construction activities do not pose a risk to that of the airport operations.

2.4 Responsibilities

The Client

“client” means any person for whom construction work is being performed;

Pure Safety, on behalf of the Client, shall implement the Client’s requirements for health and safety on the project. The Client will ensure adequate information is available to all parties, to ensure they can perform their duties under the requirements of this document and relevant statutory legislation.

The Client has appointed competent Designers, CHS Agent and intend appointing a competent Principal Contractor to manage health and safety on this project. The Client may amend, vary or terminate these appointments as appropriate.

The Client's Design Team

The Design Team is responsible for:

- Design principles and design assumptions for the structures where the knowledge of these principles or assumptions is necessary for the safety of those who will work on or in the structure (meaning all "elements" e.g. buildings, structures, walls, etc.). For example, these must identify any states of instability during erection including any suggested methods or sequence of assembly. Where assumptions have been made then appropriate control measures may need to be included here, as information for those who will plan the work.
- Arrangements for the co-ordination of on-going design work and handling design changes (design changes arising from whatever causes, for example: Client changes, Designer changes, Contractor changes, on-site circumstances causing variations, etc).
- Significant (including unusual or difficult to manage) Health and Safety hazards or risks identified during design (that it has not been possible to eliminate by design).
- Specified materials or substances with associated significant Health and Safety hazards requiring particular precautions. (This would particularly include fire hazards.)
- Specific risks or difficult to manage issues inherent in the design where the Principal Contractor (or the Contractor) will be required to state how they will avoid or control them.
- Weights and centre of gravity of unusual or significant elements intended (or likely) to be lifted into position. Examples of significant hazards where Designers always need to provide information include:
 - Hazardous or flammable substances specified in the design, eg. epoxy grouts, fungicidal paints, or those containing isocyanates;
 - Features of the design and sequences of assembly or disassembly that are crucial to safe working;
 - Specific problems and possible solutions, for example: arrangements to enable the removal of a large item of plant from a work area / building;
 - Structures that create problems;
 - Heavy or awkward prefabricated elements likely to create risks in handling.

The designer must also conduct a final inspection and issue a certificate of successful completion.

Duties of the Designer:

- All Appointed Designers will take into consideration the requirements of the Occupational Health & Safety Act, applicable Regulations, By laws and Health & Safety Specification in their designs.
- All Appointed Designers must prior to the tender phase ensure that a report is issued to the client outlining the health and safety information applicable to the structure that may have an effect on the costing, the Load that the structure is design to with stand and where appropriate the geotechnical science aspects of the project.
- All Appointed Designers will in writing inform the Client of any Hazards or damages in the Building prior and during the project should it arise on a later stage of the project and supply the client and the contractor intended for the task with the relevant information to ensure that work is safely executed.
- Any Temporary Work Designer must ensure that all structures designed is done in the manner that such structure is capable of supporting all anticipated lateral and vertical loads that may be applied and clearly identified in such design.
- Any Temporary Work Designer must ensure that such design is done in close reference to the structural design.
- Any Temporary Work Designer must ensure that a record is kept of all drawings and calculations pertaining to such design and made available upon request.
- All Appointed Designers will be required to sign a legal appointment for the intended designs in the event that the project falls under a construction permit.

Principal Contractor

The Principal Contractor appointed for the project will take the Health and Safety specification and develop a health and safety plan which must be submitted to **the CHS Agent** for approval, before commencement of any work on the project.

The detailed Health and Safety plan will set out clearly the Principal Contractor's management systems for managing health and safety on the contract in accordance with the projects health and safety requirements set out in this document, the designer's risk information and any relevant health and safety legislation.

The Health and Safety Management plan will be kept up to date by the Principal Contractor to include other contractors' risk control management information

The Principal Contractor will co-operate with **the CHS Agent**, in all aspects of complying with the duties laid upon them by the Construction Regulations 2014.

All comments contained in this section require specific measures to be incorporated into the construction health and safety plan. The Principal Contractor must not allow contractors to commence with work on site before an adequate construction health and safety plan is developed and approved by the Principal Contractors health & safety personnel for the project.

The Principal Contractors health & safety management plan must contain the method statements and procedures for the project, before works starts on site. Further risk assessments and method statements must be carried out where the works may change, due to design changes.

The construction phase health and safety plan developed by the Principal Contractor must also take into account current health and safety legislation and associated codes of practice.

- (i) The following risk assessments are required:
 - All task-oriented risks;
 - Equipment risks;
 - Physical risks;
 - Ergonomical risks;
 - Health risks.

- (ii) Procedures are required to cover the following:
 - Arrangements for emergency fire and first aid facilities.
 - Traffic management arrangements to protect site staff, and public from the road and other construction works.
 - Arrangements for dealing with emergency situations, overhead and underground services.
 - Environmental Management Plan to be drafted and implemented.
 - Selection and maintenance of plant and equipment.
 - Selection of competent contractors.
 - Working in an active airport airplane vicinity area.
 - Aircraft traffic risks.

The following method statements and procedures **MUST** be available before work starts on site:

- Establishment of site welfare, first aid and emergency procedures (fire and security to be considered).
- Arrangements for emergency service vehicles access to the premises.
- Traffic management arrangements, including pedestrian and ACSA ground staff access routes.
- ACSA staff and construction workers protection arrangements from any possible riot, violence from protests and unrest within the vicinity of the project.

- Protection to overhead and underground services.
- Applicable permits and way leaves are to be made available.

(iii) Immediate details expected of the Principal Contractor

Site Staff: Organogram and list of employees to be submitted to the CHS Agent.

Contractors: List of contractors to be appointed for the project.

Site Plant: List of site plant/equipment along with the site layout plan indicating traffic management control and signage layout.

Contractors

Each contractor will be required to co-operate with the Principal Contractor and provide information on risk assessments, method statements, etc. for inclusion in the Health and Safety plan prepared by the Principal Contractor. In addition, each contractor will comply with the site rules and any reasonable instructions formulated by the Principal Contractor, in accordance with current relevant health and safety legislation.

2.5 Project Overview

a) Site Details

As per 2.1 – Development Brief and project details.

b) Advice to Client

You are advised to promptly provide the Principal Contractor and his / her Agent with any information which might affect the Health and Safety of any person at work, carrying out construction work, for example: existing services above and below ground, other surveys available pertaining to this site which may affect the construction works (i.e. Geotechnical Survey; Environmental Survey).

Any planning restrictions placed on the development by the local authority planning office.

Requirements to maintain access for emergency service vehicles.

Appoint a competent and well-resourced Principal Contractor for the construction works.

If an CHS Agent is appointed the Client is responsible for assuring that the OHS Agent has the necessary competency and resource levels for the project.

c) Construction Materials

Common materials and substances used during construction may present health and safety hazards requiring the contractor to carry out other risk assessments.

Contractors should be aware of their duties under current regulations to identify hazardous materials or activities and undertake adequate assessment and implement the required control measures (i.e. Duty of Care).

Safety method statements and the provision of job safety instructions (for operatives) is an essential outcome of their risk assessment process.

d) Site Wide Elements

Your Construction Health and Safety Plan should include details of the following, but not limited to:

- The positioning of the site access and egress points to ensure that any nuisance or risk is minimised and controlled.
- The location of temporary site facilities to ensure that adjacent buildings are not subjected to any nuisance arising from the use of the facilities.

- The location of unloading, layout and storage areas to reduce and minimise excessive manual handling of construction materials, damage to adjacent property and the security of the plant, equipment and materials.
- The planning of traffic and pedestrian routes, outside the site, to ensure adequate protection for employees, public footpath and road users. The use of suitable barriers, signs and the appointment of a signaller/points-man should be adopted to provide the required level of protection. The site must be enclosed by a ring fence / barrier system, for safety and security of all personnel on site.
- The arrangements for the reception of prospective visitors.
- Provide contractors with a designated area to set up their storage containers/huts.
- Information pertaining to training and permits required at BFIA.
- ACSA health and safety standards and procedures for contractors to be made available.

2.6 Reference and Related Procedures

- The Occupational Health and Safety Act (No. 85 of 1993),
- The Construction Regulations (07 February 2014),
- Asbestos Abatement Regulations (if applicable),
- South African Civil Aviation Authority,
- South African Civil Aviation Regulations,
- This specification.

All other relevant Health and Safety Legislation and applicable Regulations which are not listed above.

2.7 Organisational Arrangements

Site Rules

The Principal Contractor's organisational arrangements for health and safety on the project must include that of other contractors involved.

Site rules must be developed by the Principal Contractor to ensure that the restrictions, outlined in this Health and Safety Specification, are met. In particular, arrangements and site rules must be developed to ensure that construction works do not put at risk the health and safety of staff, general public and construction employees. Generally, your health and safety policy and construction health and safety plan will be to specify site rules such as the wearing of personal protective equipment and no drinking or drugs, etc on site.

Hot Work Permits:

Hot work requires daily permits by the Principal Contractors responsible person and includes items listed below:

- Metal cutting or burning, angle grinding
- Arc welding, soldering, brazing and gas welding

Hot works must be approved by ACSA prior to any works.

Security:

- Ensure that the site has a fulltime security guard. (to be confirmed with ACSA)
- Do not allow any person to climb over, get through or under any ACSA fence.
- Do not allow your employees to visit or trespass on any part of the premises other than their place of work.
- Do not allow your employees to remove any item which belongs to the Client from the place of work.
- Do not allow your employees to use short cuts through operating plants.
- Do not take firearms, narcotics and liquor into the premises of the project.
- Be aware that you are responsible for the safe keeping, distribution and return on completion of the contract of all project issued drawings and technical information.
- Ensure that your workforce displays, and returns at the end of the day, any temporary work permits issued by the responsible person.

Temporary Structures:

- Ensure complete safety of the work and personnel through all stages of construction.
- Ensure adequate protection of temporary or uncompleted structures against storm damage.

The Principal Contractor must demonstrate a management structure for ensuring health and safety co-operation and co-ordination between all parties to the contract. This will include the development of a communications strategy between the appointed Principal Contractor, Contractors, Client, Design Team and CHS Agent.

The Principal Contractor must ensure that an effective chain of communication exists, clearly showing that all levels of employees engaged on the contract participate in the communication process for health and safety concerns.

Regular meetings will be established between the parties where health and safety performance will be discussed. Minutes must be kept and distributed for action following the conclusion of each meeting.

Emergency and incident procedures must be developed and clearly co-ordinated between parties involved.

A security strategy must be developed by the Principal Contractor who must then communicate and co-ordinate that strategy to all parties of the contract.

2.8 Continuing Liaison

Procedures for liaison to continue between all parties throughout the project should include the particular points listed below.

All unforeseen eventualities which may occur during construction, and which affect the health and safety of employees or resources should be reported to the CHS Agent.

The CHS Agent should be informed of any design changes, which may affect health and safety.

Arrangements should be made by the Principal Contractor with other contractors to ensure any information required for the health and safety file (see the following list), which is generated by the contractors' work, is stored and passed to the Principal Contractor prior to completion of their specific works. This will include the following:

- As built drawing(s) where applicable
- General details of the materials used in the construction process
- Details of the plan and equipment supplied and fitted
- Service details – gas, water, electricity, communications (telephone, cable, ICT, etc)
- Specific maintenance details or requirements (plant, equipment, fixtures and fittings – where applicable)
- Suppliers' brochures for health and safety information (use, maintenance and repairs)
- All Agreements, Safety Committee minutes and nominated competent individuals, etc.
- All training records – i.e. special training needs, induction and visitor inductions.

PART 3. GUIDANCE NOTES - "GOOD MANAGEMENT PRACTICE" FOR THE APPOINTED PRINCIPAL CONTRACTOR

This section contains the recommended Principal Contractor's essential elements, on how the contract must be managed. This is to ensure that the health and safety aims and targets will be achieved and to ensure the health and safety of those employed on the contract, or affected by the operation of the contract.

3.1 Scope

This Health & Safety specification covers the requirements for eliminating and mitigating the potential risks for incidents and injuries on this particular project.

The scope also addresses legal compliance, hazard identification and risk assessment, risk control, and promoting a health and safety culture amongst those working on the project. The specification also makes provision for the protection of those persons other than employees.

3.2 Interpretations

3.2.1 Application

This Health & Safety Specification is a compliance document drawn up in terms of South African legislation (Construction Regulation 5(1)(b)) and is therefore binding. It must be read in conjunction with relevant legislation as noted previously.

3.2.2 Definitions

The definitions as listed in the Occupational Health & Safety Act 85/1993 and Construction Regulations 2014 shall apply.

3.3 Minimum Administrative Requirements

3.3.1 Intention to Commence Construction Work

Application for construction work permit (Construction Regulation 3):

- Construction work permit (initiated and completed by the CHS Agent. The Principal Contractor must submit to the agent all relevant documentation required for the permit submission to the Department of Labour).
- The site specific number in the construction work permit must be conspicuously displayed at the main entrance to the site for which that number is assigned.
- The principal contractor does not need to submit a Notification of construction work to the Department of Employment and Labour should a construction work permit be applicable.

Notification of construction work (Construction Regulation 4):

- The Principal Contractor shall notify the Provincial Director of the Department of Employment & Labour in writing before construction work commences. A copy of this notification must be forwarded to the CHS Agent on appointment. This notification must be signed by the Client / Agent & Principal Contractor.

No construction work may commence until the document has been stamped by the Department of Employment and Labour.

3.3.2 Assignment of the Principal Contractor's / Contractor's Responsible Persons to Supervise Health and Safety on Site

The Principal Contractor shall submit supervisory appointments in terms of Section 16.2 of the OHS Act 85/1993 and Construction Regulation 8.1 and 8.7 and all other necessary legal appointments required on the project.

3.3.3 Competency of the Principal Contractor's Appointed Responsible Persons

Contractors' competent persons for the various risk management portfolios shall fulfil the criteria as stipulated under the definition of Competent in accordance with the Construction Regulations 2014. **Proof of competence** for the various appointments must be included. For the purpose of this contract, the most important competent persons would include but not be limited to: construction supervisor; scaffold erectors; scaffold inspector; scaffold supervisors; formwork and support work inspector; ladder inspectors; excavation

inspectors; electrical installation inspectors; portable electrical tools inspectors; lifting machine and equipment inspector; lifting machine operators; banksman; vehicle operators; fire equipment inspector; first aid co-ordinator, emergency co-ordinator, etc.

All appointments must be in writing and acceptance thereof by way of signature by the appointed person.

3.3.4 Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA)

The Principal Contractor shall submit a valid letter of good standing with its Compensation Insurer to the CHS Agent as proof of registration. Contractors shall submit proof of registration to the Principal Contractor before they commence work on site. This registration must be valid throughout the duration of this project.

3.3.5 Occupational Health and Safety Policy

The Principal Contractor and all Contractors shall submit a Health and Safety Policy signed by their Chief Executive Officer. The Policy must outline company objectives and how they will be achieved, implemented and maintained by the Company / Contractor.

3.3.6 Health and Safety Organogram

The Principal Contractor and all Contractors shall submit an organogram, outlining the Health and Safety Site Management Structure including the relevant appointments/competent persons. In cases where appointments have not been made, the organogram shall reflect the intended positions. The organogram shall be updated when there are any changes in the Site Management Structure. This must be supplied to the CHS Agent within 7 working days.

3.3.7 Preliminary Hazard Identification and Risk Assessment and Progress Hazard Identification and Risk Assessment

The Principal Contractor shall cause a hazard identification to be performed by a competent person before commencement of construction work. The risks associated with the hazards identified, must be assessed and shall form part of the construction phase health and safety plan submitted for approval by the CHS Agent. The risk assessment must include;

- a) A list of hazards identified as well as potentially hazardous tasks;
- b) A documented risk assessment based on the list of hazards and tasks;
- c) A set of safe working procedures (method statements) to eliminate, reduce and/or control the risks assessed;
- d) A monitoring and review procedure of the risk assessment as the risks change.
- e) The risk assessments must have a risk matrix and show raw & residual risk ratings.

Contractors shall also cause hazard identification, risk assessments and method statements to be performed and submitted to the Principal Contractor with their health & safety plans. The risk assessment documents must also be reviewed from time to time by the Contractors.

The Principal Contractor shall ensure that all Contractors are informed, instructed and trained by a competent person regarding any hazards, risks and related safe work procedures before any work commences and thereafter at regular intervals as the risks change and as new risks develop.

The Principal Contractor shall be responsible for ensuring that all persons who could be negatively affected by its operations are informed and trained according to the hazards and risks and are conversant with the safe work procedures, control measures and other related rules (a toolbox talk strategy to be implemented, covering site specific Health and Safety Issues).

Method Statement

A method statement must be drafted by the Principal Contractor for all high risk work that will take place on the project. A detailed proposal must be handed to the client/clients agent for inspection on the principal contractors plan, procedures and safety measures that will be put into place.

3.3.8 Health and Safety Representatives

The Principal Contractor and all Contractors shall ensure that Health and Safety Representative(s) are appointed under consultation (as per General Administrative Regulations, 2003, R1010) and trained to carry out their functions. The appointment must be in writing. The Health and Safety Representative shall carry out regular inspections, keep records and report all findings to the Responsible Person forthwith and at monthly health & safety meetings.

3.3.9 Health and Safety Committee Meetings

The Principal Contractor shall ensure that project health and safety meetings are held monthly and minutes are kept on record. Meetings must be chaired by the Principal Contractor's Construction Supervisor (CR 8.7 Person). All Contractors' Construction Supervisors and Health & Safety Officers & Representatives shall attend the monthly health & safety meetings. Minutes of such meetings must be distributed to all parties and a copy to be placed into the Principal Contractors safety file.

3.3.10 Health and Safety Training

3.3.10.1 Induction

The Principal Contractor shall ensure that all site personnel undergo a site-specific health & safety induction training session before starting work. A record of attendance shall be kept in the health & safety file.

The Principal Contractor shall also ensure that any visitor or member of the professional team receive a site specific induction or induction designed to accommodate visitors.

3.3.10.2 Awareness / Safety Promotion

The Principal Contractor shall ensure that, on site, periodic toolbox talks take place at least once per week. These talks should deal with risks relevant to the construction work at hand. A record of attendance shall be kept in the health & safety file. All Contractors have to comply with this minimum requirement.

The Principal Contractor shall ensure that relevant safety awareness poster be displayed around the site a strategic points to help their employees stay safety conscious.

3.3.10.3 Competency

All competent persons shall have the knowledge, experience, training, and qualifications specific to the work they have been appointed to supervise, control, carry out. This will have to be assessed on a regular basis e.g. periodic audits by the CHS Agent, progress meetings, etc. The Principal Contractor is responsible to ensure that competent Contractors are appointed to carry out construction work.

The Principal Contractor must ensure that all employee training certificates are valid and kept up to date.

3.3.11 General Record Keeping

The Principal Contractor and all Contractors shall keep and maintain Health and Safety records to demonstrate compliance with this Specification, with the OHS Act 85/1993, and with the Construction Regulations 2014. The Principal Contractor shall ensure that all records of incidents/accidents, training, inspections, audits, etc. are kept in a health & safety file held in the site office. The Principal Contractor must ensure that every Contractor opens

and maintains its own health & safety file and makes it available on request. All files will be consolidated on completion of the project and handed over to the Client on completion of the contract.

3.3.12 Health & Safety Audits, Monitoring and Reporting

The CHS Agent shall conduct monthly health & safety audits of the work operations including a full audit of physical site activities as well as an audit of the administration of health & safety. The Principal Contractor is obligated to conduct similar audits on all Contractors appointed for the project at least once per month. Detailed reports of the audit findings and results shall be reported on at all levels of project management meetings/forums. Copies of the Client's audit reports shall be kept in the Client's Health & Safety File while the Principal Contractor's audit reports shall be kept in its file. Copies of all reports must be forwarded to the CHS Agent. Contractors have to audit their contractors and keep records of these audits in their health & safety files, to be available on request.

3.3.13 Emergency Procedures

The Principal Contractor shall submit a detailed Emergency Procedure for approval by the CHS Agent prior to commencement on site. The procedure shall detail the response plan including the following key elements:

- List of key competent personnel;
- Details of emergency services;
- Actions or steps to be taken in the event of the specific types of emergencies;
- Information on hazardous material/situations.

Emergency procedure(s) shall include, but shall not be limited to, fire, hazardous material spills, accidents to employees, use of hazardous substances, bomb threats, major incidents/accidents, riots, violent protests & civil unrest, but not limited to. The Principal Contractor shall advise the CHS Agent in writing forthwith, of any emergency situations, together with a record of action taken. A contact list, of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, etc) must be maintained and be available to site personnel. This list must be displayed in the site office at all times.

The emergency evacuation plan must include a protocol for exposure to Hazardous Biological Agents and must stipulate control measures for evacuation in the event of possible exposure.

3.3.14 First Aid Boxes and First Aid Equipment

The Principal Contractor and all Contractors shall appoint First Aider(s) in writing. The appointed First Aider(s) must be in possession of valid first aid certificates, to be kept on site. The Principal Contractor shall provide an on-site First Aid Station with first aid facilities, including first aid boxes adequately stocked at all times. All Contractors with more than 5 employees shall supply their own first aid box. Contractors with more than 10 employees shall have a trained, certified first aider on site at all times as per General Safety Regulation 3(4).

3.3.15 Accident / Incident Reporting and Investigation

Injuries are to be categorised into first aid; medical; disabling; and fatal. The Principal Contractor must stipulate in the Health & Safety Plan how they intend to handle each of these categories. When reporting injuries to the CHS Agent, these categories shall be used. All injuries shall be investigated by the Principal Contractor, with a report being forwarded to the CHS Agent. All Contractors have to report all injuries to the Principal Contractor forthwith and submit a monthly report detailing the injuries. The Principal Contractor must report all injuries to the CHS Agent in the form of a detailed injury report at least monthly and notify the CHS Agent immediately in event of an incident on the project.

The Principal Contractor must conform to Section 8 & 9 of General Safety Regulations for the "*Reporting of incidents and occupational diseases*" and "*Recording and investigation of incidents*". *All incidents surrounding exposure to Hazardous Biological Agents must be recorded.*

3.3.16 Hazards and Potentially Hazardous Situations

The Principal Contractor shall immediately notify other Contractors as well as the CHS Agent of any hazardous or potentially hazardous situations that may arise during performance of construction activities.

3.3.17 Personal Protective Equipment (PPE) and Clothing

The Principal Contractor shall ensure that all workers are issued and wear hard hats, safety footwear and overalls. The Principal Contractor and all Contractors shall make provision and keep adequate quantities of SANS approved PPE on site at all times. The Principal Contractor shall clearly outline procedures to be taken when PPE or Clothing is:

- Lost or stolen;
- Worn out or damaged.

The above procedure applies to Contractors and their contractors, as they are all Employers in their own right.

The Principal Contractor must make available protective gear for visitors and the professional team when visiting the site.

PPE requirements surrounding Hazardous Biological exposures must be made available on site.

3.3.18 Occupational Health and Safety Signage

The Principal Contractor shall provide adequate health & safety signage including but not limited to: 'mandatory entrance signage board', 'no unauthorised entry', 'report to site office', 'site office', 'beware of overhead work', 'hard hat area', "All incidents, accidents and illnesses to be reported to First Aider. Signage shall be posted up at all entrances to site as well as on site in strategic locations e.g. access routes, stairways, entrances to structures and buildings, scaffolding, and other potential risk areas/operations.

3.3.19 Permits

Permits may include the following:

- N/A - Construction work permit (initiated and completed by the CHS Agent. The Principal Contractor must submit to the agent all relevant documentation required for the permit submission to the Department of Labour, or
- Notification of Construction Work.
- ACSA permits.
- Demolition permit (If required)
- Excavation permit (If required)
- Road wayleaves and hoarding permits (If required)
- Work for which a fall prevention plan is required
- Confined spaces (If required)
- Hoarding permit (If required)

3.3.20 Contractors

The Principal Contractor shall ensure that all Contractors under its control comply with this Specification, the OHS Act 85/1993, Construction Regulation 2014, and all other relevant legislation that may relate to the

activities directly or indirectly. The Contractor, when appointing other Contractors, shall mutatis mutandis ensure compliance as if it was the Principal Contractor.

All contractors are to comply to the Principal Contractor OHS requirements and control measures around possible exposure to Hazardous Biological Agents. Relevant OHS Plans and Policies are to be amended to include control measures required to be put into place around Hazardous Biological Agents.

3.3.21 Construction Health & Safety Officer

A full time construction health & safety officer (in terms of Construction Regulation 8(5) of 2014), registered with SACPCMP (Professional Body) will be required to co-ordinate the health & safety portfolio on the project for the Principal Contractor on a full time basis. The portfolio should include but not be limited to:

- a) Induction training;
- b) Health & safety audits including audits of contractors;
- c) Maintain the Principal Contractor's health & safety file and audit Contractors' health & safety plans and files;
- d) Investigate near misses, incidents and accidents;
- e) Co-ordinate that inspections are carried out by competent persons, and that records are kept in registers.
- f) Co-ordinate the function of reviewing the risk assessment document;
- g) Assisting with method statements and checking whether they are being implemented by the responsible persons on site.

3.4 Physical Requirements

3.4.1 Demolitions

1. There could be a possibility of the removal of asphalt which might have to be redone, the following requirements must be adhered to.
2. Building rubble will have to be removed continuously so as not to create congestion on the site and surroundings.
3. A detailed method statement must be drafted and forwarded to the Clients CHS Agent for approval prior to any demolition work commencing on site.
4. Compliance to Construction Regulation 14 must be adhered to.

3.4.2 Demolition Contractor

1. The contractor to ensure that all demolition work is carried out under the supervision of a person that is competent and appointed in writing.
2. The contractor must ensure that a detailed survey/report of the area to be demolished or part thereof has been carried out by a competent person.
3. The contractor must ensure that a Method Statement on the procedure to be followed on the demolition has been developed and communicated to all employees with signed communication available for inspection.
4. The contractor to ensure that the location and nature of electricity, water, gas or similar services are established and steps are taken to render persons safe while demolition takes place.
5. The contractor to ensure that where explosives are used in the demolition process, a Method Statement is in place and that the work is being carried out under the supervision of a competent person and that the necessary permits are obtained.
6. The contractor to ensure that all waste and debris is removed from the site as soon as possible.

3.4.3 Excavations

The Principal Contractor and any relevant Contractors shall make provision in their tender for shoring, dewatering or drainage of any excavation as per this specification.

The Contractor shall make sure that:

- a) An excavation permit is present and valid (if applicable).
- b) The excavations are inspected before every shift and a record is kept;
- c) Safe work procedures have been communicated to the workers;
- d) The safe work procedures are enforced and maintained by the Contractor's
- e) The requirements of Construction Regulation 13 of 2014 are adhered to.

3.4.4 Edge Protection and Penetrations

The Principal Contractor must ensure that all exposed edges and openings are guarded by solid edge protection and demarcated at all times until permanent protection has been erected. The Principal Contractor's risk assessment must include these items: protection of edges, penetrations, and all other openings and areas where a person may fall. No exposed edges and other openings left unprotected will be tolerated. Barricading must be a priority on this project and must be erected as soon as possible.

Compliance to Construction Regulation 10, must be adhered to.

3.4.5 Stacking of Materials

The Principal Contractor and other relevant Contractors shall ensure that there are sufficient appointed stacking supervisors and all materials, formwork and all equipment are stacked and stored safely. The site is fairly extensive, however space may present a problem, but this is not a reason for poor stacking and storage techniques. Double handling of material should be avoided and for this purpose, pallets and other stacking options should be used.

Relevant arrangements to be made with ACSA on laydown areas.

Compliance to Construction Regulation 28, must be adhered to.

3.4.6 Speed Restrictions

The Principal Contractor shall ensure that all persons in its employ, all contractors, and all those visiting the site are aware and comply with the site speed restrictions set within the airport. If at all possible, separate vehicle and pedestrian access routes shall be provided, if at all possible maintained, controlled, and enforced.

3.4.7 Access to Site

There is a possibility that as work progresses to an advanced stage, the management of vehicles entering the site must be carefully managed, along with safety measures implemented for airport vehicles and ground staff.

Compliance to strict access control requirements must be adhered to and maintained throughout the duration of the project. Compliance to General Safety Regulations 2C, must be adhered to.

3.4.8 Hazardous Chemical Substances (HCS)

The Principal Contractor and other relevant Contractors shall provide the necessary training and information regarding the use, transport, and storage of HCS. The Principal Contractor shall ensure that the use, transport, and storage of HCS are carried out as prescribed by the HCS Regulations.

The Contractor shall ensure that all hazardous chemicals on site have a Material Safety Data Sheet (MSDS) on site and the users are made aware of the hazards and precautions that need to be taken when using the chemicals. The First Aiders must be made aware of the MSDS and how to treat HCS incidents appropriately.

Compliance to Hazardous Chemical Substances Regulations, must be adhered to.

3.5 Plant and Machinery

3.5.1 Construction Plant

The Principal Contractor shall ensure that all mobile/fixed plant complies with the requirements of the OHS Act 85/1993 and Construction Regulation 23. The Principal Contractor and all relevant Contractors shall inspect and keep records of inspections of the construction plant used on site. Only authorised/competent trained persons are to use machinery and the appropriate supervision must be provided. The appropriate PPE and clothing must be provided and maintained in good condition at all times.

All documentation and legal appointments must be placed into the site specific health & safety compliance file.

3.5.2 Vessels under Pressure

The Principal Contractor and all relevant Contractors shall comply with the Vessels under Pressure Regulations, including:

- Providing competency and awareness training to the operators;
- Providing PPE or clothing;
- Inspecting equipment regularly (3-monthly) and keep records of inspections;

3.5.3 Fire Extinguishers and Fire Fighting Equipment

The Principal Contractor and relevant Contractors shall provide adequate, regularly serviced fire-fighting equipment located at strategic points on site, specific to the classes of fire likely to occur. The appropriate notices and signs must be posted up as required.

Compliance to Construction Regulation 29, must be adhered to.

3.5.4 Hired Plant and Machinery

The Principal Contractor shall ensure that any hired plant and machinery used on site is safe for use (including load test certificates, road worthy certificates, inspection registers). The necessary requirements as stipulated by the OHS Act 85/1993 and Construction Regulations 2014 shall apply. The Principal Contractor shall ensure that operators hired with machinery are competent and that certificates are kept on site in the health & safety file. All relevant Contractors must ensure the same. Particular care is to be exercised when planning for crane positioning.

3.5.5 Scaffolding / Working at Heights

Working at heights includes any work that takes place in an elevated position. The Contractor must submit a risk-specific fall prevention plan in accordance with the Construction Regulations 2014, Regulation 10, before this work is undertaken. The fall prevention plan must be approved by the CHS Agent, before work may commence. Scaffolding must comply with the requirements of SANS 085 and Construction Regulation 16.

All external scaffolding must be secured using box-around-column ties or other fixed tie methods. All scaffold platforms must be fully boarded and be complete with guardrails and toe boards. Safe and convenient access must be provided to all working platforms.

The Principal Contractor must ensure that all temporary structures must be designed, inspected and signed off by a registered structural engineer.

3.5.6 Formwork and Support work for Structures

The Principal Contractor shall ensure that the provisions of Construction Regulations 12 of 2014 are adhered to. These provisions must include but not be limited to ensuring that all equipment used is examined for suitability before use; that all formwork and support work is inspected by a competent person immediately before, during and after placement of concrete or any other imposed load and thereafter on a daily basis until the formwork and support work has been removed. Records of all inspections must be kept in a register on site.

According to the current scope of this project, there should be no formwork and support work to be done, but that could change depending on any changes made to the design by the client.

3.5.7 Lifting Machines and Tackle

The Principal Contractor and all Contractors shall ensure that lifting machinery and tackle are inspected before use and thereafter in accordance with the Driven Machinery Regulations and Construction Regulation 22 of 2014. There must be competent lifting machinery and lifting tackle inspectors who must inspect the equipment daily, before use, taking into account that:

- All lifting machines and tackle must carry a load test certificate and must have an inspection register.
- All lifting machinery and tackle has a safe working load clearly indicated;
- Regular inspection and servicing is carried out;
- Records are kept of inspections and of service certificates;
- There is proper supervision in terms of guiding the loads that includes trained banksman to direct lifting operations and check lifting tackle;
- The tower crane bases have been approved by an engineer;
- The operators are competent as well as physically and psychologically fit to work and in possession of a medical certificate of fitness to be available on site.

3.5.8 Ladders, Ladder Work and Access to Elevated Areas

The Principal Contractor shall ensure that all ladders are inspected monthly, are in good safe working order, are the correct height for the task, extend at least 1m above the landing, fastened and secured, and at a safe angle. Records of inspections must be kept in a register on site. Contractors using their own ladders must ensure the same.

Compliance to General safety Regulations 13A, must be adhered to.

3.5.9 General Machinery

The Principal Contractor and relevant Contractors shall ensure compliance with the Driven Machinery Regulations, which includes inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE and clothing, and training those who operate machinery.

3.5.10 Portable Electrical Tools and Explosive Powered Tools

The Contractor shall ensure that use and storage of all explosive powered tools and portable electrical tools are in compliance with relevant legislation. The Contractor shall ensure that all electrical tools, electrical distribution boards, extension leads, and plugs are kept in safe working order. Regular inspections and toolbox talks must be conducted to make workers aware of the dangers and control measures to be implemented e.g. personal protection equipment, guards, etc.

The Contractor shall consider the following:

- A competent person undertakes routine inspections and records are kept;
- Only authorised trained persons use the tools;
- The safe working procedures apply;
- Awareness training is carried out and compliance is enforced at all times; and
- PPE and clothing is provided and maintained.
- A register indicating the issue and return of all explosive round;
- Signs to be posted up in the areas where explosive powered tools are being used.

Compliance to Construction Regulation 24 & Electrical Machinery Regulations 10, must be adhered to.

3.5.11 Public and Site Visitor Health & Safety

The Principal Contractor shall ensure that every person working on or visiting the site, shall be made aware of the dangers likely to arise from site activities, including the precautions to be taken to avoid or minimise those dangers. Appropriate health and safety notices and signs shall be posted up, but shall not be the only safety measure taken.

The Principal Contractor has a duty in terms of the OHS Act 85/1993 to do all that is reasonably practicable to prevent members of the public and site visitors from being affected by the construction activities. The site will be protected with a permanent hoarding and access will be controlled. Site perimeters may need to change as the construction work progresses. The contractor must plan how to ensure the hoarding remains current and effective. These arrangements must be included in the Construction Health and Safety Plan.

Site visitors must be briefed on the hazards and risks that they may be exposed to and what measures should be taken to control these hazards and risks. A record of these 'inductions' must be kept on site in accordance with the Construction Regulations. All visitors must report to the site office where they should receive relevant health & safety information. The site

office should be strategically located so that site visitors are not exposed to risks prior to reporting at the office.

3.5.12 Night Work

The Principal Contractor must ensure that adequate lighting is provided to allow for work to be carried out safely if required. This would need to be confirmed with airport management.

3.5.13 Transport of Workers

The Principal Contractor and other Contractors shall not:

- Transport persons together with goods or tools unless there is an appropriate area or section to store goods and tools;
- Transport persons in a non-enclosed vehicle, e.g. truck. There must be an adequate canopy (properly covering the back and top) and suitable sitting area. Workers shall not be permitted to stand or sit at the edge of the transporting vehicle;
- Transport workers in bakkies unless they are closed/covered and have the correct number of seats for the passengers.

3.5.14 Asbestos

The Principal Contractor must ensure strict adherence to the Asbestos Abatement Regulations, when handling asbestos components on the project as well as disposal of such items.

3.5.15 Traffic Accommodation and Public Interface Management

Construction work within a live airport environment presents significant risks associated with traffic accommodation and public interface management. The interaction between construction activities, airport operations, and the movement of vehicles, pedestrians, and ground staff requires stringent planning and control to prevent incidents and maintain uninterrupted airport functionality. Key hazards include potential collisions between construction vehicles and aircraft or airport service vehicles, public vehicle interaction in drop-off zones and access roads, unauthorized pedestrian entry into construction zones, and exposure of airport ground staff to construction-related hazards such as dust, noise, and moving machinery.

To mitigate these risks, the Contractor shall implement a comprehensive Traffic Management Plan (TMP), developed in consultation with ACSA's Airside Operations, Safety, and Security departments, inspected and approved by the Health & Safety Agent. All work areas shall be clearly demarcated using solid hoarding not less than 1.8 metres high, to prevent public access and restrict visual intrusion into work zones. Hoarding must be structurally stable, securely fixed, and finished in an airport-approved colour. Where full hoarding is not feasible, barricading systems such as water-filled or concrete barriers, safety cones, or temporary fencing shall be used to physically separate construction activities from pedestrian and vehicular routes.

Pedestrian movement near work zones must be safely accommodated through the use of clearly marked, unobstructed walkways with non-slip surfaces and adequate night-time illumination. Directional and warning signage shall be displayed in visible locations and, where appropriate, include multilingual or pictogram-based messages to ensure comprehension by all users. Warnings such as "*Construction Area – No Entry*", "*Pedestrian Route*", and "*Caution – Heavy Vehicles Operating*" should be prominently displayed. During peak operational periods, flagmen or safety marshals shall be deployed to manage pedestrian and vehicle interactions and to guide the public safely through or around affected areas.

Special consideration shall be given to airport ground staff, including baggage handlers, fuel operators, and apron service personnel who may operate in proximity to construction zones. Interface coordination meetings shall be held daily to communicate access arrangements, restricted areas, and safety hazards. Construction equipment must be fitted with audible reversing alarms and flashing beacons, and all workers operating airside must wear high-visibility reflective PPE. Dust and noise generated by construction activities shall be controlled through the use of dust suppression measures and acoustic barriers, and activities generating excessive noise should be scheduled outside of sensitive operational periods.

In all cases, the Contractor shall ensure that materials and debris are adequately secured to prevent Foreign Object Debris (FOD) hazards within or adjacent to aircraft movement areas. Regular FOD inspections must be

undertaken before and after each work shift. Night works shall comply with airport lighting standards, using anti-glare floodlights and maintaining visibility of all signage and barricades. Access routes for emergency vehicles and personnel must remain unobstructed at all times, with designated muster points clearly identified.

All personnel involved in the works, including subcontractors, shall undergo a project-specific induction and airside safety awareness briefing to ensure understanding of the hazards associated with airport operations and the controls required to prevent incidents. The implementation of these measures will ensure compliance with ACSA's safety requirements, the Occupational Health and Safety Act (Act 85 of 1993), and applicable Civil Aviation Authority (SACAA) regulations, thereby safeguarding both airport users and construction personnel.

Responsibilities

- **The Contractor** shall be responsible for the development, implementation, and ongoing maintenance of the Traffic Management Plan, ensuring that all works are conducted in accordance with ACSA's safety and operational requirements. The Contractor shall appoint a competent Safety Officer to oversee compliance with the TMP, monitor pedestrian and vehicle management measures, and conduct daily inspections of hoarding, barricading, signage, and lighting installations.
- **ACSA (the Client)** shall review and approve the Contractor's Traffic Management Plan prior to commencement of works and will provide coordination support with Airside Operations and Security to ensure that construction activities do not interfere with airport operations.
- **The Safety Officer** shall ensure continuous monitoring of traffic management measures, verify the effectiveness of public interface controls, maintain records of daily inspections, and immediately report any non-conformances or safety breaches to both the Contractor and ACSA Safety Management.
- **All site personnel and subcontractors** shall comply with the approved plan, adhere to designated routes, obey signage and instructions from flagmen or marshals, and immediately report unsafe conditions to the Safety Officer.

3.6 Occupational Health

3.6.1 Occupational Hygiene

Exposure of workers to occupational health hazards and risks is very common in any work environment, especially in construction. Occupational exposure is a major problem and leads to medical conditions like cancers, skin disorders, noise induced hearing loss, etc. All Contractors must ensure that adequate health and hygiene measures are put in place to prevent exposure to these hazards. Prevent inhalation, ingestion, absorption, and noise

induction. Site-specific health risks are tabled in Annexure 5, e.g. cement dust, wet cement, wood-dust, noise, etc.

PSITTACOSIS – This disease is acquired by contact with infected birds. The disease varies from a flu-like illness to an pneumonia with the possible involvement of other organs. Usually through inhalation of dust or aerosol contaminated by bird faeces or nasal discharge. The organism can survive many months in dry dust. Person to person spread has also been reported. Incubation period usually 4 – 15 days, disease varies from flu-like illness

with a fever, headache, joint and muscle pains of a few days to pneumonia and possible endocarditis and hepatitis. Early detection and treatment normally results in complete recovery, although delay or susceptible individuals may progress to more severe illness or even death.

CONTROL OF EXPOSURE – Good general ventilation is required. Cleaning procedures should avoid creating aerosols and dust, no high pressure jetting. Work techniques should be designed to keep the worker's breathing zone away from possible aerosol (dust) clouds, avoid the need for close approach during demolition. High levels

of faeces / dust should, where possible, be enclosed with local exhaust ventilation. Handling systems, e.g. for waste, diseased birds, and feathers should be enclosed where reasonable practicable. All bird waste to be contained in polythene sacks sealed and disposed of by an approved contractor. Respiratory protective equipment (RPE) is most likely to be needed when demolition work is in progress. Personal Protective Equipment (PPE) as appropriate should be worn i.e. hand protection, disposable hooded coverall and eye protection. Good standards of personal hygiene and of washing facilities with separate eating facilities should be provided. Employees and

visitors should be alerted to the potential hazard and of the precautions which they need to adopt also the need to seek help from and inform their doctor if illness develops.

DUST CONTROL:

The Principal Contractor shall be responsible for control of dust from all its operations for the project.

Dust mitigating is as follows:

- Ensure that dust is adequately managed during construction activities.
- Erect screens or shade cloth netting to help contain any dust exposure.
- There should be sufficient water points on site to aid dust suppression.
- Water for dust control shall only be taken from approved sources and wherever possible only from sources on site.
- Ensure that loads are watered down before been transferred to tipper trucks for removal off site.
- Limit vehicle speeds to 20km per hour or less
- Minimise the width of haul roads and other easements and encourage one-way travel of tracked vehicles to minimise slowing and consequent degrading of the soil structure which will enhance dust pollution.
- Minimise overburden knowledge haulage distances.
- Apply water to haul roads with a spraying truck or water down with a hose pipe.
- Water or apply chemical soil stabilisers to inactive construction areas.
- Water site or suspend grading and / or excavations activities as well as any other dust generating activity, when wind speed exceeds 40 km per hour.
- Cover appropriate trucks hauling dirt, sand, soil or other material when leaving the premises.
- Strip and store topsoil in separate stockpiles with mounds not exceeding 2 meters in height to prevent windblown dust.
- Ensure that the stockpiles are regularly watered down.
- Minimise disturbances of natural vegetation during right – of – way construction to reduce potential erosion, run off and air-borne dust.
- Implement a system of reporting excessive dust conditions by construction personnel.

NOISE CONTROL:

The Principal Contractor shall include noise control considerations in its operational plan for the project.

All vehicles shall be fitted with effective exhaust silencers and shall comply with the Road Traffic Act.

If on-site noise control is not effective, to supply ear plugs and ensure that occupational health provisions are met (OHSA, 85 of 1993).

Normal machine and construction activity working hours will be as listed in the National Building Regulations. Monday to Saturdays.

HAZARDOUS BIOLOGICAL AGENTS:

In terms of the Regulations for Hazardous Biological Agents (GNR.1390), the following key points shall be considered but not limited to the rest of the requirements of the Regulations:

(1) An employer shall, before any employee is exposed or may be exposed to HBA and after consultation with the health and safety committee established for that section of the workplace, ensure that the employee is

adequately and comprehensively informed and trained, on both practical aspects and theoretical knowledge with reward to-

(b) the potential risks to health caused by the exposure;

(c) the measures to be taken by the employer to protect an employee against any risk of being exposed;

(d) the importance of good housekeeping at the workplace and personal hygiene requirements;

(e) the precautions to be taken by employee to protect him or herself against the health risks associated with the exposure, including the wearing and use of protective clothing and respiratory protective equipment;

(g) the necessity of medical surveillance;

(i) the procedures to be followed in the event of exposure, spillage, leakage, injury or any similar emergency situation and decontaminating or disinfecting contaminated areas

3.6.2 Facilities

The Principal Contractor must supply sufficient number of clean, hygienic toilets (1 toilet per 30 workers), changing facilities, hand washing facilities, soap, toilet paper, and hand drying material must be provided. Waste bins must be strategically placed and emptied regularly. Safe, clean storage areas must be provided for workers to store personal belongings and personal protective equipment. Workers should not be exposed to hazardous materials/substances while eating and must be provided with sheltered eating areas. Adequate potable water must be provided. Hand sanitiser and disposable paper towels must be made available.

Compliance to Construction Regulation 30, must be adhered to.

3.6.3 Alcohol and other Drugs

No alcohol and other drugs will be allowed on site. No person may be under the influence of alcohol or any other drugs while on the construction site. Any person on prescription drugs must inform his/her superior, who shall in turn report this to the Principal Contractor forthwith. Any person suffering from any illness/condition that may have a negative effect on his/her safety performance must report this to his/her superior, who shall in turn report this to the Principal Contractor forthwith.

Any person suspected of being under the influence of alcohol or other drugs must be sent home immediately, to report back the next day for a preliminary inquiry. A comprehensive disciplinary procedure should be followed by the Contractors and a copy of the disciplinary action must be forwarded to the Principal Contractor for its records.

3.6.4 Medical Assessments

As stipulated under Construction Regulation 2014, Regulation 7.1(g):

All employees are to have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3 of the Construction Regulations 2014 document.

3.7 Community Unrest

The Principal Contractor is to ensure that sufficient insurance and public liability cover is in place prior to starting with any construction work activities on the project. The cover should cater for the following scenarios, but not limited to: work stoppages, theft, vandalism, damage to property, delay in project program, injuries, riots & violence due to and arising out of public/community unrest on the project.

It is imperative that the Principal Contractor inform all contractors of this requirement and that the relevant insurances & covers are in place and valid. The client will not be held liable for any costs incurred by the Principal Contractor and Contractors, arising from or out of the above mentioned scenarios on the project, hence it is the responsibility of the Principal Contractor and Contractors to comply with this requirement.

3.8 Monitoring Site Health and Safety

Monitoring of health and safety on the project will take place in accordance with the Client's requirements, as recorded below, in accordance with relevant health and safety legislation, and at two levels, namely:

| | |
|----------|--|
| Level 1: | The CHS Agent (Legal Compliancy Audit) |
| Level 2: | The Principal Contractor |

Records of contractors' monitoring shall be kept on site, provided to the CHS Agent and the Principal Contractor for analysis, action and record purposes.

Please Note:

All contractors engaged on the contract will be required to submit their health and safety policy document and a method statement for the works they are to carry out.

PART 4.

HEALTH & SAFETY SPECIFICATION - ACKNOWLEDGEMENT BY PRINCIPAL CONTRACTOR

PROJECT: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

I,

(name) representing the appointed Principal Contractor, acting in terms of Section 16.2 of the Occupational Health & Safety Act of 1993, acknowledge this Health & Safety Specification prepared for the above-mentioned project.

Company Name

Signature of Principal Contractor OHS 16.2 Appointee

Date

PROJECT: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

ANNEXURE 1

PRINCIPAL CONTRACTOR'S "HEALTH AND SAFETY PLAN" CONSTRUCTION REGULATION 7(1)(a)

1. Introduction

This guidance sheet gives guidance on the important issues that could be included in the Principal Contractor's Health and Safety Plan for the Construction Phase of the project at Bram Fischer International Airport.

The Construction Regulations are aimed at improving overall management and co-ordination of Health, Safety and Welfare throughout the Construction Phase of the projects, to reduce the large number of serious and fatal accidents and cases of ill health, which occur every year in the Construction Industry.

Under the Construction Regulations, the Principal Contractor is required to develop the Health and Safety Plan before work commences on site and to keep it up to date throughout the Construction Phase. The degree of detail required in the Health and Safety Plan for the Construction Phase and the time and effort in preparing it should be in proportion to the nature, size and level of Health and Safety risks involved in the project. Projects involving minimal risks will call for simple, straight forward plans. Large projects or those involving significant risks will need more detail.

2. What should the Construction Phase Health and Safety Plan cover?

The Construction Health and Safety Plan should set out the arrangement for ensuring the Health and Safety of everyone carrying out the construction work and all others who may be affected by it.

The Plan should deal with:

- The arrangements for the Management of Health and Safety of the construction work;
- The monitoring systems for checking that the Health and Safety Plan is being followed;
- Health and Safety Risk Assessments to those at work, and others, arising from the construction work, and from other work in premises where construction work may be carried out.
- Working inside an active airport runway and in close proximity to airplanes.

3. What should go in the Construction Health and Safety Plan

Not all information relating to the Project may be available to fully develop the Health and Safety Plan before the start of the Construction Phase. This could be because not all the design work may have been completed or many of the Contractors who will be carrying out the work have yet to be appointed. However, site layout drawings covering the project at different stages, completed design information and the Health and Safety Specification will be valuable in developing the Health and Safety Plan so that:

- The general framework is in place; and
- It deals with the key tasks during the initial work stages where design is complete.

For projects where a significant amount of design work will be prepared as construction proceeds, specific arrangements for dealing with this work may need to be set out in the Health and Safety Plan.

The Health and Safety Plan will need to be added to, reviewed and updated as the project develops, further design work is completed, information from the Contractors starting work becomes available, unforeseen circumstances or variations to planned circumstances arise, etc.

BASIC GUIDANCE ON THE REQUIRED CONTENTS OF THE CONSTRUCTION HEALTH AND SAFETY PLAN

A. Project Description

- A description of the Project;
- A general statement of Health and Safety principles and objectives for the Project;
- Information about restrictions which may affect the work (e.g. neighbouring buildings, utility services, vehicular and pedestrian traffic flows and restrictions from the work activities of the Client).

B. General Administrative Requirements

Principal Contractor to supply the following:

- Company Health and Safety Policy
- Department of Labour Notification if not working under a permit
- Workman's Compensation Registration (letter of good standing)
- Copy of relevant policies and insurances for the project
- Start-up Procedure Checklist and methodology.

C. Management

Principal Contractor to supply the following:

- Management Organogram for the project
- All legal appointments for the project (Appendix 1)
- Arrangement for the Principal Contractor to give directions and to co-ordinate other Contractors

D. Standard Setting

Principal Contractor to supply the following:

Health and Safety standards to which the project will be carried out (can be statutory requirements or higher standards that the Client may require – i.e. added rules).

E. Information to Contractor

Principal Contractor to supply the following:

Means for informing Contractors about risks to their Health and Safety arising from the environment in which the project is to be carried out and the construction work itself.

F. Selection Procedures

Principal Contractor to supply the following:

- All Contractors to be appointed by the Principal Contractor must be competent, have the relevant experience and shall make adequate provision for Health and Safety;
 - List of Contractors indicating compliance criteria
 - Contractor Safety Induction – proof thereof
 - Contractor Safety Meetings – proof thereof
 - Section 37.2 Mandatory Agreements – in terms of OHS Act 85/1993

- Suppliers of material to the Principal Contractor will provide adequate Health and Safety information to support their products;
 - Section 37.2 Mandatory Agreements – in terms of OHS Act 85/1993
- Machinery and other plant supplied for common use will be properly selected, used and maintained and the operator training will be provided;
 - Section 37.2 Mandatory Agreements – in terms of OHS Act 85/1993

G. Communications and Co-operation

Principal Contractor to supply the following:

- Means for communicating and passing information between Project Team (including the Client and any Client's representatives) the Designers, the CHS agent, the Principal Contractor, other Contractors, Workers on site and others whose Health and Safety may be affected;
- Arrangements for securing co-operation between Contractors for Health and Safety purposes;
- Arrangements for Management meetings and initiatives by which the Health and Safety objectives of the project are to be achieved;
 - Health and Safety Representative – their requirements
 - Committee Meeting Minutes and Agenda
 - Appointment of Committee Members

H. Activities with Risk to Health and Safety

Principal Contractor to supply the following:

Arrangements need to be made for the identification and effective management of activities with risk to Health and Safety, by carrying out risk assessments, incorporating those prepared by other Contractors, and also safety method statements which result. These activities may be specific to a particular trade or to site-wide issues, and may include:

- The storage and distribution of materials;
- The movement of vehicles on site, particularly as this affects pedestrian and vehicular safety;
- Control and disposal of waste;
- The provision and use of common means of access and places of work;
- The provision and use of common mechanical plant;
- The provision and use of temporary services (e.g. electricity);
- Temporary support structure;
- Commissioning, including the use of permit-to-work systems;
- Protection from falling materials;
- Dealing with potential community unrest and possible riots on the project.
- Exclusion of unauthorized people;
 - Noise Programme – requirements
 - Risk Assessments in terms of Hazardous Chemicals/Substances

I. Emergency Procedures

Principal Contractor to supply the following:

Emergency arrangements for dealing with and minimising the effects of injuries, fire and other dangerous occurrences (community unrest and riots).

- Emergency Plan
- Emergency Telephone List
- Fire Precautions
- First Aid Arrangements

J. Reporting of Accidents and Incidents

Principal Contractor to supply the following

Arrangements for passing information to the Principal Contractor about accidents, ill health and dangerous occurrences that require to be notified to the Department of Labour under the General Administrative Regulations:

- Accident/Incident Processing
- Accident Procedure
- Monthly Injury Information

K. Welfare Facilities

Principal Contractor to supply the following:

The arrangements for the provision and maintenance of welfare facilities as per the Construction Regulations.

L. Information and Training for People on Site

Principal Contractor to supply the following:

Arrangements need to be made by which the Principal Contractor will check that people on site have been provided with:

- Training Guidelines
- Induction Training and proof of attendance
- Site Visitor Information
- Toolbox Talks
- Display of Statutory Notices
- Specific Training for Legal Appointments
- Dealing with potential community unrest and possible riots on the project.

M. Site Rules

Principal Contractor to supply the following:

Arrangements for making site rules and for bringing them to the attention of those affected. The rules should be set out in the Health and Safety Plan. There may be separate rules for Contractors, Workers, Visitors and other specific groups.

N. Health and Safety File

Principal Contractor to supply the following:

Arrangements for passing on information to the CHS Agent for the preparation of the Health and Safety file. All documents required by law in the Construction Regulations.

O. Arrangements for Monitoring

Principal Contractor to supply the following:

Arrangements should be set out for the monitoring systems to achieve compliance with:

- Legal requirements (minimum monthly audit and reports thereof).
- The Health and Safety rules developed by the Principal Contractor through regular planned checks and by carrying out investigations of incidents (whether causing injury, loss or near miss) and complaints.
- Daily inspection by Health and Safety Representative.
- All legal required inspection Site Registers to be kept up to date.
- Co-operation and regular meetings between senior management and those who provide Health and Safety advice to them.

LEGAL APPOINTMENTS - OCCUPATIONAL HEALTH AND SAFETY ACT 85/1993

| | |
|-----------------|---|
| PROJECT: | CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS |
|-----------------|---|

Constructions Regulations 2014 appointments listed below, but not limited to:

| No | OHS Act Ref. | Appointment | Name of Appointee |
|-----------|---------------------|---|--------------------------|
| 1 | Section 16 | Overall Authority and Accountability | |
| 2 | Section 16(2) | Assignment of Duties | |
| 3 | CR 8(1) | Construction Manager / Assistant Construction Manager | |
| 4 | CR 8(7) & 8(8) | Construction Supervisor & Assistant | |
| 5 | CR 8(5) | Construction Health and Safety Officer | |
| 6 | Section 17 | Health and Safety Representative | |
| 7 | CR 16 | Scaffold Erector, Supervisor, Inspector (separate appointments) | |
| 8 | CR 13 | Excavation Inspector | |
| 9 | GSR 3(4) | First Aiders | |
| 10 | CR 29 / ER9 | Fire Equipment Inspector | |
| 11 | CR 24 / EMR 9 | Portable Electrical Tool Inspector | |
| 12 | CR 19 | Materials Hoist Inspector | |
| 13 | DMR 18(5) | Lifting Machinery and Equipment Inspector | |
| 14 | DMR 18(6) | Lifting Tackle Inspector | |
| 15 | GSR 13(a) | Ladder Inspector | |
| 16 | HSC Reg's | Hazardous Chemical Substances Inspector | |
| 17 | CR 21 | Explosive Powered Tools Inspector | |
| 18 | ER 9 / CR 29 | Emergency Coordinator | |
| 19 | CR 12 | Temporary Works/ Formwork and Support Work Inspector | |
| 20 | CR 12(1) | Demolition Work Supervisor | |
| 21 | CR 17 | Suspended Platforms Supervisor | |
| 22 | CR 20 | Bulk Mixing Plant | |
| 23 | CR 23 | Construction Vehicle and Mobile Plant Inspector | |
| 24 | CR24 | Electrical Installation and Machinery Responsible Person | |
| 25 | CR 28 | Stacking and Storage Supervisor | |
| 26 | CR 22 | Tower Crane Operator & Inspector | |
| 27 | CR 25 | Flammable Liquids | |
| 28 | CR 27 | Housekeeping & General Safe-Guarding | |
| 29 | OHS 8 | Environmental Officer | |
| 30 | GAR 9.2 | Incident Investigator | |
| 31 | CR 30 | Hygiene Inspector | |
| 32 | GSR 9 | Welding Supervisor | |
| 33 | CR 18 | Rope Access | |
| 34 | CR 10 | Fall Protection | |

KEYS:

| | | |
|-----|---|---|
| CR | = | Construction Regulations |
| EMR | = | Electrical Machinery Regulations |
| DMR | = | Driven Machinery Regulations |
| GMR | = | General Machinery Regulations |
| ER | = | Environmental Regulations |
| GSR | = | General Safety Regulations |
| HSC | = | Hazardous Chemical Substances Regulations |

DOCUMENTS TO BE SUBMITTED

PROJECT: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

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|-------------------|
| ANNEXURE 2 |
|-------------------|

The Principal Contractor and Contractors must submit documents to legally comply with the Construction Regulations 2014, where applicable with the construction phase H&S plan.

| HSS Item No. | Requirement | OHS Requirement | Submission Date |
|--------------|--|---|--|
| 3.3.1 | Notification of Intention to Commence Construction / Building Work. | (Construction Regulation 4.1) | Before commencement on site |
| 3.3.2 | Assignment of Responsible Persons to Supervise Construction Work | OHS Act (section 16.2) & Construction Reg 8 | Before commencement on site |
| 3.3.3 | Competence of Responsible Persons | OHS Act (section 16.2) & Construction Reg 8 | Together with H&S plan |
| 3.3.4 | Compensation of Occupational Injuries and Diseases – proof of registration | COIDA | Together with H&S plan |
| 3.3.5 | Occupational Health and Safety Policy | OHS Act | Together with H&S plan |
| 3.3.6 | Health and Safety Organogram | Client Requirement | Together with H&S plan |
| 3.3.7 | Initial Hazard Identification and Risk Assessment | Construction Regulation 9. | Together with H&S plan |
| 3.3.8 | Health and Safety Personnel | OHS Act Construction Regulations | Submit as soon as there are more than 20 employees on site |

ASSIGNMENT OF PRINCIPAL CONTRACTOR’S RESPONSIBLE PERSONS

PROJECT: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

ANNEXURE 3

The Principal Contractor shall make the following appointments according to the initial risk assessment: (further appointments could become necessary as the project progresses).

Contractors shall make the relevant appointments as per their operations. The Client reserves the right to insist on any appointment/s as determined by its risk assessment of the Contractor concerned.

References made to Construction Regulations 2014.

| Appointment | OHSA Reference | Requirement |
|--------------------------------------|-----------------|---|
| CEO Assignee | Section 16(2) | A competent person to assume the overall H&S responsibility – Principal Contractor’s Responsible Person |
| Construction Manager | CR 8.1 | A competent person to supervise, manage and be responsible for Health & Safety related issues on site. |
| Construction Supervisors | CR 8.7 & CR 8.8 | A competent person to assist with daily supervision of construction / building work. The person(s) assist the Construction Work Supervisor. |
| Construction Health & Safety Officer | CR8.5 | A competent person to fulfil the functions as laid down in 3.3.21 of the “Good Management Practice”. |
| Health & Safety Representative(s) | Section 17 | A competent person(s) to assist with identifying risks, attend H&S meetings, conduct inspections, assist with investigations, etc. |
| Health & Safety Committee Member(s) | Section 19 | The 16.2 Person, CR 8.1 Person, CR 8.7 Person, H&S Reps., H&S officer. |
| Incident Investigator | GAR 8 | A competent person to investigate incidents / accidents on site and could be: <ul style="list-style-type: none"> • The CR8.1 or CR8.7 Person • H&S Representative • Member of the H&S Committee • H&S officer |
| Risk assessment co-ordinator | CR 9 | A competent person to co-ordinate all risk assessments on behalf of the Principal Contractor. The same applies to Contractors. |
| Fall protection plan developer | CR 10 | A competent person to prepare & amend the fall protection plan. |
| First Aiders | GSR 3 | A qualified person to address all on site first aid cases. |

| | | |
|---|-----------------|---|
| Machinery Inspector | GSR 2.1 | A competent person to supervise machinery. |
| Lifting machine & equipment inspector | DMR 18 | A competent person to inspect lifting machines, equipment. |
| Lifting tackle inspector | DMR 18 | A competent person to inspect lifting tackle. |
| Scaffolding Inspector | SANS 085 / CR16 | A competent person to inspect scaffolding before use and every time after bad weather, etc. |
| Scaffolding erector | SANS 085 / CR16 | A competent person to erect scaffolding. |
| Scaffolding supervisor | SANS 085 / CR16 | A competent person to supervise scaffolding. |
| Temporary Works - Formwork & support work inspector | CR 12 | A competent person to inspect formwork & support work. |
| Excavation Inspector | CR 13 | A competent person to inspect excavation work and ensure that approved safe working procedures are followed at all times. |
| Ladder Inspector | GSR 13A | A competent person to inspect ladders daily and ensure they are safe for use, keeping monthly record. |
| Stacking Supervisor | CR 28 | A competent person to supervise all stacking and storage operations. |
| Explosive powered tools inspector/supervisor | CR 21 | A competent person to inspect & clean the tool daily and controlling all operations thereof. |
| Temporary electrical installations supervisor | CR 24 | A competent person to control all temporary electrical installations. |
| Fire-fighting equipment inspector | CR 29 | A competent person to inspect and operate fire-fighting equipment. |

GENERAL REQUIREMENTS

PROJECT: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

ANNEXURE 4

The Principal Contractor shall comply but not be limited to the following requirements: Report on these to the CHS Agent at progress meetings or at least monthly whichever is sooner.

Contractors shall comply and report to the Principal Contractor on a monthly basis. A report with supporting documents shall be tabled at the Principal Contractor's monthly Health & Safety meeting.

| What | When | Output | Accepted by Client with date |
|--|---|---|-------------------------------------|
| Construction-phase Health & Safety Plan | At tender | Principal Contractor to report on status of Contractors' health & safety plans | |
| Health & Safety File | Open file when construction begins and maintain throughout. | Have file on hand at meetings | |
| Induction training | Every worker before he/she starts work. | Attendance registers | |
| Awareness Training (Tool Box Talks) | At least weekly | Attendance registers | |
| Health & Safety Meetings | Monthly | Meeting minutes | |
| Health & Safety Reports | Monthly | Report covering: <ul style="list-style-type: none"> • Incidents / accidents and investigations • Non-conformances by employees & contractors • Internal & External H&S audit reports | |
| Emergency procedures | Weekly evaluation of procedure | Table procedure in writing as well as tel. numbers | |
| Risk assessment | Updated and signed off at least monthly | Documented risk assessment | |
| Method statements (safe work procedures) | Drawn up before workers are exposed to new risks | Documented set of safe work procedures (method statements) updated and signed off | |

Annexure 4 continued

| | | | |
|--|-------------------------------------|--|---------------------|
| General Inspections | Weekly & daily | OHS Act compliance: Registers <ul style="list-style-type: none"> • Scaffolding • Excavations • Formwork & support work • Explosive tools • Temporary electrical installations | General Inspections |
| General Inspections | Monthly | <ul style="list-style-type: none"> • Firefighting equipment • Portable electrical equipment • Ladders | |
| General Inspections | Monthly | <ul style="list-style-type: none"> • Lifting tackle • Oxy-acetylene cutting & welding sets • Fall prevention and arrest equipment | |
| General Inspections | Daily | <ul style="list-style-type: none"> • Lifting machines | |
| Load tests / performance tests | Annually / once erected, before use | <ul style="list-style-type: none"> • Lifting machines | |
| List of Contractors | List to be updated weekly | Table list, number of workers and Company tel. numbers | |
| Workman's Compensation | Update weekly | Table a list of Contractors' workman's compensation proof of good standing | |
| Construction site rules & Section 37.2 Mandatory Agreement | Update weekly | Table a report of all signed up Mandataries | |

Project Health & Safety File Format and Contents:

The below is the template for the contents of the health and safety file to be drafted for the project by the appointed Principal Contractor and can be amended accordingly after consultation with the CHS Agent. Once drafted and completed, the Principal Contractor must ensure submission of the file with supporting documentation to the CHS Agent & ACSA OHS Department for evaluation and approval.

The safety must not be generic. The documentation within the file must be project and scope specific and not contain documentation which does not form part of the Principal Contractor and Contractors scope of work.

Section 1 – Site Information

- Emergency & Management Contacts
- Company Organogram
- Emergency Evacuation Procedure
- Site Safety Procedures
- Notification of Construction Work

Section 2 – Health & Safety

- Health & Safety Management Plan
- Company Policies
- Fall Protection Plan
- Environmental Management Plan

- Risk Management Plan
- Company Valid Letter of Good Standing with Workman's Compensation
- Client Construction Health & Safety Specification
- COVID-19 Management plan & policy

Section 3 – OHS Act Appointments

- Legal Appointments (Training certificates must be attached to applicable legal appointments)

Section 4 – Register & Checklists

- Monthly, Weekly & daily Inspection register & checklists
- Daily COVID-19 employee/visitor screening checklist

Section 5 – Risk Management

- Risk Assessment Approval & Review
- Method Statement
- Applicable Risk Assessments to Scope of Work including Risk Matrix
- COVID-19 Risk Assessment and safe work procedure
- Safe Work Procedures
- DSTI's
- PTO's

Section 6 – Incident Management

- Incident reporting procedure
- Daily Incident record
- First Aid box dressing register
- Annexure 1 – Recording & Investigation of Incidents
- WCL2 – Employers Report of an Accident
- WCL6 – Resumption report

Section 7 – Training

- List of Employees
- Health & Safety Induction Procedure
- Employee Inductions including copies of ID's and valid medical certificates
- Employee Information including next of kin details

Section 8 – Safety Awareness

- Weekly Toolbox Talk Topics

Section 9 – Site Compliance

- Record of Safety Meeting Minutes
- Record of Internal & External OHS Audits

Section 10 – Contractor Compliance

- Copy of Signed Mandatory Agreement

Section 11 – OHS Act

- Copy of Occupational Health & Safety Act, Act 85 of 1993
- General Safety Regulations
- General Administrative Regulations
- Government gazettes (COVID-19) Workplace guidelines

Section 12 – Construction Regulations

- Copy of Construction Regulations 2014

ANNEXURE 5

BASELINE RISK ASSESSMENT

PROJECT: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

| RISK MATRIX | | | | PROBABILITY | | | | |
|---|---------------------------|--|---|------------------------|-----------------------------------|-------------------------------------|----------------------------------|---------------------------------------|
| | | | | Practically impossible | Conceivable but unlikely to occur | Is known to occur "it has happened" | Quite possible- happens annually | Might well be expected- Happens often |
| | | | | 1 | 2 | 3 | 4 | 5 |
| SEVERITY | Minor Injury | No disruption to operation /R1000 to less than R10000 | 1 | 1 | 2 | 3 | 4 | 5 |
| | Recordable injury/illness | Brief disruption to operation /R10000 to less than R50 000 | 2 | 2 | 4 | 6 | 8 | 10 |
| | Lost Workday Case Injury | Partial shutdown / R50 000 to less than R2m | 3 | 3 | 6 | 9 | 12 | 15 |
| | Fatality | Partial loss of operation /R2m to less than R5m | 4 | 4 | 8 | 12 | 16 | 20 |
| | Multiple Fatalities | Substantial or total loss of operation / R5m and more | 5 | 5 | 10 | 15 | 20 | 25 |
| Risk Result (Probability x Severity) | | | | | | | | |
| 01-06 = Low Risk – Attention needed. Risk perhaps tolerable | | | | | | | | |
| 07-14 = Medium Risk – Immediate correction required | | | | | | | | |
| 15-25 = High Risk – Management intervention required | | | | | | | | |

PROJECT RISK PROFILE

The hazards and risks mentioned below is anticipated by the Construction health & safety agent for the proposed project but must not be deemed as comprehensive. The main and sub-contractors must, due to their training, knowledge and experience include any hazards and risks in their safety plans that they possibly foresee. Regulation numbers are displayed with each hazard.

- Construction Vehicles and Mobile Plant (Construction Regulation 23)

During the groundwork, there will be mobile plant operating in and around the site. Flagman must be present to direct traffic when the mobile plant is moving in and out of site. All internal access roads must be cleaned daily from any debris and soil that may fall onto the road. Operators must take cognisance of the airport vehicles moving around the designated project area when utilising mobile plant.

- Excavation works (Construction Regulation 13)

The excavation work required on the project must be executed as per requirements under Construction Regulation 13. Applicable excavation warning signage must be displayed. Solid barricading must be erected around each excavated area. Excavation permit will be required.

- Electrical installations for construction sites (Construction Regulation 24)

Electrical installations must be done by qualified electricians and inspected at least weekly by a competent person. Records must be kept of these installations by the main contractor, for handover to the client.

- Flammable liquid storage (Construction Regulation 25)

As it is anticipated that construction vehicles and mobile plant will be used on this project, and it would be necessary to store flammable liquids on site. All flammable liquids must be stored in areas free of combustibles in containing areas as required by this regulation.

- Housekeeping (Construction Regulation 27)

The laydown area and other stores must be kept in good order. Waste must be removed such that no waste accumulated on site. Skips must be organised pro-actively to prevent overfilling and spilling of waste. Control measures to be outlined in the contractor's waste management plan.

- Stacking and Storage (Construction Regulation 28)

Stacking must always be on a level surface and stacked such that stacks are stable. With mobile plant and vehicles on site, clear roadways must be provided that will prevent vehicles and plant colliding with stacked materials and equipment.

- Fire Precautions (Construction Regulation 29)

Fire must be prevented and to this end all flammable and combustible materials must be controlled by the relevant contractors. Smoking must be regulated to smoking areas. Making of fires on site is prohibited. Combustible waste must be contained in skips and disposed of regularly. Firefighting equipment must be readily available in dedicated areas distributed over the project area. An evacuation plan must be provided by the main contractor.

- Employee facilities (Construction Regulation 30; Facilities Regulation)

In the interest of employee health washing, changing and ablution facilities must be provided as required by this regulation. Sufficient numbers of facilities for both genders must be made available. Eating areas must also be provided with enough seating for the number of employees on site.

- First Aid (General Safety Regulation 3)

Every contractor must provide first aid equipment for the number of employees that will be deployed on site according to General Safety Regulation 3. Records must be kept of all injuries. First aid equipment must be replenished as it is consumed.

- Signage (General Safety Regulation 2B)

The principal contractor will ensure that relevant signage is displayed as and where required. The client's agent has the right to instruct signage to be displayed which in his/her professional opinion is required.

- Personal protective equipment (General Safety Regulation 2)

Every contractor must analyse, in accordance with their risk assessment conducted, the required personal protective equipment for use by their employees. The contractor is obligated to ensure that his/her employee do make use of these equipment. Work being done without the use of this equipment must be stopped until the employee complies with this regulation. Strict adherence to ACSA's PPE rules must be enforced.

- Admittance of persons to site (General Safety Regulation 2C)

Control of all entrances to the construction site must be ensured by the main contractor. No unauthorised person may be allowed to enter the site unless he/she has been inducted regarding the hazards and risks on site and the measures to be taken to ensure his/her safety. Visitors must always be accompanied by the person being visited and the visitor's attention must be directed to any hazards and hazardous situations by the person accompanying the visitor.

- Hazardous chemical substances (Hazardous Chemical Substances Regulations)

All hazardous chemical substances to be used on the project must be identified by the relevant contractor/s. a register of these chemicals must be available on the contractor's safety file together with Material Safety Data Sheets for the chemical/s used. The data sheets must be studied by the contractor involved and any hazards highlighted by the data sheet must be incorporated into the contractor's safety plan and practically implemented by the contractor.

The main contractor will inspect stores where hazardous chemicals are kept and ensure that incompatible chemicals are not stored together. Record of inspections must be kept on file.

- Driven machinery (Driven Machinery Regulations)

All machines driven by any power source must comply with this regulation. To ensure compliance every contractor must have all driven machinery inspected and the result of the inspection kept in writing on the contractor's safety file.

- General machinery (General Machinery Regulations)

All machines used on site by any contractor that conforms to machinery as intended by this regulation must comply with the prescriptions of this regulation.

- Electrical installations (Electrical Installation Regulations)

New electrical installations are planned for this project and the legally required certificates of compliance must be provided to the client by a competent person on the completion of such installation.

Installations must be done according to the relevant Standards and these regulations and as per the Electrical Engineers specifications, drawings and guidelines.

- Pressure Equipment (Pressure Equipment Regulations)

Every contractor making use of pressure equipment, gas containers and fire extinguishers, must comply with these regulations regarding the use, storage, and testing of this equipment. The equipment must be inspected, and records kept of the inspections in the contractor's safety compliance file

PROJECT SPECIFIC RISKS FOR WORKING IN THE VICINITY OF AN ACTIVE AIRPORT:

Aircraft Traffic Risks

- Risk of collision with moving aircraft or ground service vehicles,
- Hazardous jet blast from departing or arriving aircraft,
- Risk of foreign object debris (FOD) being ingested by aircraft engines.

Fuel Risks

- Risk of fire or explosion due to proximity to fuel storage facilities,
- Potential fuel spills during construction activities,
- Ignition risks during fuel transfer operations.

Construction-Related Risks

- Potential falling objects or materials from construction activities near airplane traffic areas,
- Trip and fall hazards from uneven surfaces or construction debris,
- Noise and vibration hazards from nearby construction equipment,
- Risks associated with the movement of construction vehicles and mobile plant,
- Asbestos exposure.

Environmental Risks

- Soil erosion and sediment runoff into nearby water bodies,
- Contamination of soil or water due to fuel spills or improper waste management,
- Disruption of natural habitats and ecosystems due to construction activities,
- Air pollution from construction equipment and vehicle emissions,
- Noise and visual impacts on nearby communities and wildlife.

ENVIRONMENTAL CONCERNS (ENVIRONMENTAL REGULATIONS FOR WORKPLACES)

- Heat and cold

Most of the work on this project will be done where workers will be exposed to the elements. Summers in Durban tend to be very hot and winters mild to cold. Worker must be encouraged to drink adequate amounts of water in summer and to report any symptoms of dehydration to supervisors for immediate treatment. In winter warm clothing must be worn and any symptoms of cold stress or hypothermia to be reported to supervisors for immediate treatment.

- Lighting

No lighting issues are expected during daytime on site as the site is exposed to sunlight. If any works take place at night, artificial lighting will have to be used. Light intensity levels must comply with relevant airport standards and regulations.

- Ventilation

Ventilation is not anticipated to be an issue for this project as natural ventilation will be adequate.

- Noise

Where noise levels higher than 85dBA average over an 8-hour period will occur, all persons in such an area must be provided with hearing protection devices and the use of these devices enforced.

- Dust

Dust suppression is an important factor due to the proximity of the working airport runway. Employees to be issued with respiratory protective PPE.

PEOPLE RISKS

| | ACTIVITY | POTENTIAL HAZARD | POTENTIAL RISK | SAFETY, HEALTH & ENVIRONMENTAL IDENTIFICATION | PROBABILITY | SEVERITY | RISK RATING | CONTROL MEASURES | LEGAL REFERENCE |
|---|--|--|---|---|-------------|----------|-------------|---|--|
| 1 | Procurement of the Designer and relevant services. | Incompetent, not registered with professional body, inadequate resources. | Inadequate design. Registration invalid. Cannot complete project. | SAFETY, HEALTH & ENVIRONMENTAL | 1 | 2 | 2 | Amend plans where required. Inform client and principal contractor of changes and safety measures to take to do work safely. Do regular inspections. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 2 | Procurement of consultants and specialists | Incompetent, not registered with professional body, inadequate resources. | Inadequate consultant/ specialist services. Registration no longer valid. Cannot see project to completion. | SAFETY, HEALTH & ENVIRONMENTAL | 1 | 2 | 2 | Inspect work done for their specific discipline. Indicate unsafe or sub- standard work. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 3 | Procurement and services of a competent Principal Contractor | Incompetent, no letter of good standing, no adequate resources, not provided for cost of H&S measures, no safety plan, no safety file, safety plan not approved, | Construction work of inferior quality (even collapse thereof). Injured workers not receiving proper medical care. Construction project not completed. Incidents accidents and property damage due to lack of funds or equipment. Breach of laws/ regulations, no H&S commitment, no safety system to eliminate/ mitigate unsafe acts or conditions. | SAFETY, HEALTH & ENVIRONMENTAL | 2 | 3 | 6 | Provide contractors with their part of the H&S specification, ensure contractor safety files are legally compliant, stop unsafe work executed by contractors, provide induction training for all on site, secure access to site, ensure contractors are in good standing with the compensation commissioner, keep safety records updated. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 4 | Legal Authority, Roles and Responsibilities and Accountabilities | Major non- conformance to Legal Requirements | Non- Compliance to Legal Requirements. Personal Injury. Public Liability. Unskilled/ untrained. Not informed. | SAFETY, HEALTH & ENVIRONMENTAL | 2 | 3 | 6 | Manage and supervise tasks and operations. Discipline where required. Manage H&S systems and records. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 5 | Incapability | Not medical fit as per Legal Requirements | Incapability. Not fit for work (medical and Psychological) | SAFETY & HEALTH | 3 | 3 | 9 | Implement Medical Surveillance Program. All employees on construction site is medically fit as per legal requirement. Tests by Occupational Medical Practitioner done, Annexure 3 medical certificates by Registered OMP obtained and kept on file. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

| | | | | | | | | | |
|---|-----------------------------|--|--|-----------------|---|---|----|---|--|
| 6 | Unskilled | Incompetent | Non- Compliance with Legal Requirements. Personal Injury. Public Liability. Unskilled/ untrained. Not informed. | SAFETY & HEALTH | 3 | 3 | 9 | Manage and supervise tasks and operations. Do in-house training with new employees where required. Discipline where required. Manage H&S systems and records. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 7 | Community & Labour problems | Disputes, riot, picketing, arson, vandalism & violence. Stoppage of the project. | Non- Compliance with Legal Requirements. Personal Injury. Public Liability. Unskilled/ untrained. Not informed. Damage to property and material, delay of project program. Additional costs incurred by the client and contractor. | SAFETY | 4 | 3 | 12 | Dispute resolution, training, awareness, supervision and security. Appointed Principal Contractor and Contractors are to ensure that sufficient legal liability insurance and specific insurances covering riots, vandalism, damage to property, theft & stoppage of the project. It is suggested that the an insurance broker be consulted and sufficient cover is in place. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 8 | Employee Transport | Accident to/ from site | Personal injury, damage to vehicles, public liability insurance. Under influence of intoxicating substances. | SAFETY | 4 | 3 | 12 | People not transported together with equipment. Random substance abuse checks. Vehicle condition checks. Regular maintenance on vehicles. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

EQUIPMENT RISKS

| | ACTIVITY | POTENTIAL HAZARD | POTENTIAL RISK | SAFETY, HEALTH & ENVIRONMENTAL IDENTIFICATION | PROBABILITY | SEVERITY | RISK RATING | CONTROL MEASURES | LEGAL REFERENCE |
|---|---|--|---|---|-------------|----------|-------------|---|--|
| 1 | Equipment Transport to site. Delivery and Off-loading. | Road accidents, off-loading accidents | Loss of material/equipment. Personal injury, damage to vehicles. Public Liability insurance. Under influence of intoxicating substances. | SAFETY | 3 | 3 | 9 | Load secured. Vehicles serviced/ maintained. No Overloading. Loads balanced. Traffic Management Plan to be implemented. Speed limit obeyed. Equipment to be offloaded by competent, assigned staff. Lifting Equipment use; as per legal requirements. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 2 | Stacking and Storage | Un-levelled laydown areas, unsafe height/ width ratio, laydown/ rubble areas not demarcated, unsafe stacking/ tools at work area, tripping hazard, unsafe Hazchem storage, unsafe storage of flammable material. | Damage to equipment/ material/ property. Personal injury to workers/public & risk of fire. | SAFETY | 3 | 3 | 9 | Stack material properly. No stacking allowed outside the planned laydown area. Control delivery and off-loading. Follow manual handling safety rules. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 3 | Construction Vehicles and Plant | Unauthorised operators, operators not trained, vehicles not suitable for the job, vehicles not road worthy, vehicles on site not accompanied by flagmen, vehicles operating in public areas. | Vehicle accidents, vehicles bumping into structures, vehicles hitting pedestrians on site, noise & pollution. | SAFETY | 4 | 3 | 12 | Flagman to control traffic to and from site entering public roads. Required PPE to be used. Regular maintenance on mobile plant. Use drip trays to prevent pollution. Adequate dust suppression measures to be implemented. Demarcate roadways and separate walkways. Barricading and safety awareness signage to be displayed. Flag man to be permanently present to control vehicular and pedestrian traffic. Control vehicle speed to not exceed speed limits. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 4 | Use and Operate Portable Electrical Equipment | Hand Arm vibration. Noise. Cuts bruise, Amputations of limbs/ body parts. Equipment failure. Electrical shock. Cracked housing. Unsafe cables. Unsafe operating practice. | Electrical shocks, Severe injuries, noise induced hearing loss, respiratory problems (Silicosis in lungs). Ergonomic injury. Environmental pollution. | SAFETY | 3 | 3 | 9 | The required PPE to be used. Operators must be competent to use the equipment and be formally trained to use the explosive fastening device. All equipment must be inspected daily and results recorded. Explosive cartridges for the explosive device must be controlled. Unsafe equipment must be withdrawn from service until properly repaired. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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|----|---|---|---|-----------------|---|---|----|--|--|
| 5 | Use and Operate Hand Tools | Hand Arm vibration. Noise. Cuts bruise, Amputations of limbs/ body parts. Equipment failure. Cracked and chipped (mushroomed) tools, Unsafe operating practice. Wrong, Incorrect tools for task used. | Injuries, noise induced hearing loss, respiratory problems (Silicosis in lungs). Ergonomic injury. | SAFETY | 3 | 3 | 9 | Checklist and/or registers to be completed regularly by competent staff. All Portable Electrical Power Tool to be maintained and/or repaired. Keep. Required PPE to be used. Comply with relevant regulation requirements. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 6 | Use and Operate Explosive Actuated Fastening Devices and Electrical Power Tools | Incompetent operator. Hand Arm vibration/ shock. Noise. Cuts bruise, Amputations of limbs/ body parts. Equipment failure. Unsafe operating practice. Wrong or incorrect tools used for task. | Severe injuries, noise induced hearing loss, respiratory problems (Silicosis in lungs). Ergonomic injury. Uncontrolled cartridges. Explosion/ fire. | SAFETY | 3 | 3 | 9 | Checklist and/or registers to be completed regularly by competent staff. All Portable Electrical Power Tool to be maintained and/or repaired. keep. Required PPE to be used. Comply with relevant regulation requirements. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 7 | Temporary Electrical Installations | Electricity | Electrical shocks, Severe injuries (burns). | SAFETY | 3 | 3 | 9 | Lock-out procedure complied with when installing temporary BD. When fully installed make DB live, taking necessary precautions. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 8 | Electric Drill | Cracked housing, unsafe cables, unsafe operating practice | Eye injuries, general injuries, electrical shock, noise induced hearing loss | SAFETY & HEALTH | 3 | 3 | 9 | Works specific RA and SWP to be done and communicated to all involved. Checklist and/or registers to be done regularly by competent staff. Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 9 | Angle Grinder | Cracked housing, unsafe cables, unsafe operating practice, fire | Electrical shocks, severe injuries, noise induced hearing loss, respiratory problems, permanent damage to ears. Silicosis in lungs, noise and dust pollution, property damage due to fire | SAFETY & HEALTH | 4 | 3 | 12 | Works specific RA and SWP to be done and communicated to all employees. Checklist and/or registers to be done regularly by competent staff. Required PPE to be used. No works to be done near thatch roof that may cause sparks that may lead to fire. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 10 | Jack Hammer | High noise levels, high vibration levels, weight of equipment | Noise induced hearing loss, eye injuries, vibration related loss of sensitivity, kidney problems, bruises, hand injury, vibration white finger, noise pollution | SAFETY & HEALTH | 3 | 3 | 9 | Works specific RA and SWP to be done and communicated to all involved. Checklist and/or registers to be done regularly by competent staff. Required PPE to be used. Job rotation to be done regularly. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| 11 | Skill Saw | Sharp teeth, weight of equipment, taking unsafe positions | Electrical shocks, severe injuries, guard malfunction, noise induced hearing loss | SAFETY & HEALTH | 3 | 4 | 12 | Works specific RA and SWP to be done and communicated to all involved. Checklist and/or registers to be done regularly by competent staff. Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 12 | Concrete Cutters | Sharp teeth, weight of equipment, taking unsafe positions | Electrical shocks, severe injuries, guard malfunction, noise induced hearing loss | SAFETY & HEALTH | 3 | 4 | 12 | Works specific RA and SWP to be done and communicated to all involved. Checklist and/or registers to be done regularly by competent staff. Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 13 | Extension Leads | Damaged cords, cords laying across access routes | Electrical shocks, trips and falls | SAFETY & HEALTH | 4 | 4 | 16 | Works specific RA and SWP to be done and communicated to all involved. Checklist and/or registers to be done regularly by competent staff. Deviations to be noted and defective equipment to be removed from site. Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 14 | Hand Tools | Mushroom effects, blunt tools, damaged handles | Cuts, bruises, eye injuries | SAFETY | 3 | 2 | 6 | Checklist and/or registers to be done regularly by competent staff. Defective tools to be removed from site. Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 15 | Compressed Air Tools | Excessive noise, compressed air | Injuries, eye injuries, noise induced hearing loss, noise pollution | SAFETY, HEALTH & ENVIRONMENTAL | 2 | 2 | 4 | Comply to relevant regulation requirements. Works specific RA and SWP to be done and communicated to all involved. Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 16 | Ladder Usage | Unstable ladder, unsafe ladders | Falls, ladders collapsing/falling | SAFETY | 2 | 2 | 4 | Checklist and/or registers to be done regularly by competent staff. Ladder to be held by co-worker when used by worker. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 17 | Hydraulic tools such as power packs, crimps | Incorrect method of crimping of conductor clamps | Possible hand injuries due to moving machine parts. Employees may also be injured should items unexpectedly be discharged from the machine. | SAFETY | 3 | 2 | 6 | The following requirements to be complied with: 1. Only skilled and competent operators to be allowed to operate the equipment; 2. The operator is required to inspect the equipment before use as to ensure that the equipment is safe for use; 3. Safety guards are to be used; and 4. Employees who are required to operate these machines should be provided with and | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| | | | | | | | | be required to use the following personal protective equipment: a. Overall; b. Safety boots; c. Eye protection; and d. Leather gloves where necessary. | |
| 18 | Use of portable gas containers | The uncontrolled release of high concentrations of gas | Falling gas containers can cause severe injury resulting in cuts, bruises & broken bones. Explosions due to unsafe storage. | SAFETY, HEALTH & ENVIRONMENTAL | 4 | 3 | 12 | The following requirements to be complied with: 1. All portable gas containers to be stored in well ventilated area; 2. Gas bottles used will always be stored in: a. An upright position; and/or b. In a trolley or in a position where it cannot fall or roll and must be chained; c. Away from open flames or other sources of ignition; and 3. Staff to be trained in the emergency procedure to be followed when portable gas containers leak or are damaged. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

PROCESS RISKS

| | ACTIVITY | POTENTIAL HAZARD | POTENTIAL RISK | SAFETY, HEALTH & ENVIRONMENTAL IDENTIFICATION | PROBABILITY | SEVERITY | RISK RATING | CONTROL MEASURES | LEGAL REFERENCE |
|---|--------------------|--|---|---|-------------|----------|-------------|---|--|
| 1 | Design | Not complying with SANS Standards, not taking H&S specification into consideration, not providing client with pre-tender report, not notifying client of construction H&S hazards and mitigation thereof, including hazardous processes and materials in the design, not including maintenance considerations in the design, not doing inspections mandated by the client, not taking ergonomics into consideration during design. | Not detecting hazards during design, not complying with specification, H&S costs not reaching contractor/s, injury to workers and damage to property, hazardous materials causing injury, diseases, fire or property damage, causing unsafe maintenance during operation stage, unsafe conditions during construction not rectified, ergonomic disease during construction and operations stages. | SAFETY, HEALTH & ENVIRONMENTAL | 2 | 2 | 4 | Stop contractors doing unsafe work and point out work not done according to the design. Inspect construction work as per client's request. Manage changes in design and additional work requested by the client. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 2 | Excavations | Unstable soil condition, not battered sides of excavation, not shored/ braced, placing load on excavation edge, mobile plant movement, not inspecting excavation condition, not barricading edges. | Collapse of excavation, inundation of persons, mobile plant falling into excavation. Property damage. Fatal injury to person/s. persons falling into excavation causing injury | SAFETY | 3 | 3 | 9 | Shore and brace or batter excavation, use retaining wall or equivalent for permanent safety. Barricade edges of excavation. Provide quick egress out of excavation. Backfill excavations without undue delay. Complete the excavation register daily and after rain or other flooding of excavations. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 3 | Temporary works | Not using fall protection equipment, unstable structure, objects at height, no safe access, unsafe design, and failure of equipment / material. | Collapse of excavation, inundation of persons, mobile plant falling into excavation. Property damage. Fatal injury to person/s. persons falling into excavation causing injury. | SAFETY | 5 | 3 | 15 | Installation to be done under the supervision of a competent person. Erectors | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 4 | Concrete placement | Wet concrete, repetitive movements, cement dust, hazardous chemical, polluting environment. Heavy lifting, lifting to higher level. Struck by uncontrolled power float. | Inhalation of cement, silicosis, dermatitis. Muscle strain. Environmental pollution. | SAFETY & ENVIRONMENTAL | 3 | 3 | 9 | Correct PPE worn. Rest periods/ person rotation. Trained persons to use power floats. Inspect and complete the checklist. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| 5 | Working in close proximity to airport runway | Collision with moving aircraft or ground service vehicles. Jet blast from departing or arriving aircraft. Foreign object debris (FOD) being ingested by aircraft engines. Noise / Vibration caused by aircraft. | Fatalities or serious injuries may occur to ground staff and /or passengers on board the aircraft. Explosion or fires can occur during collisions. Flying debris may cause damage to tools and equipment on site. Serious injuries to ground staff due to flying debris. Possible injuries to ear drums due to excessive noise. Delays to project due to an incident occurring Cost to companies due to damage to property and flight delays or cancellations. | SAFETY | 5 | 3 | 15 | Establish clearly marked exclusion zones and safety barriers to prevent unauthorized access to airplane traffic areas. Implement strict access control measures and ensure the presence of trained personnel during OHSE assessments in high-risk areas. Develop and communicate clear procedures for communication and coordination with air traffic control and ground service vehicles to minimize collision risks. Conduct regular inspections and maintain secure construction fencing or netting to prevent debris from entering airplane traffic areas. All employees to be issued mandatory PPE free of charge which must be worn correctly and inspected daily by PPE inspector. Management and safety team to ensure all SWP's, Risk assessments and DSTI's are conducted and communicated to all employees. Continuous site supervision will be required to ensure safety of all employees. PTO' to be conducted by supervisor to ensure employees are working correctly. Certified fire fighter to be on site. SHE REP checklist to be conducted. PPE inspection register to be completed. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 6 | Fuel Handling/ Transportation | Risk of fire or explosion due to proximity to fuel storage facilities. Potential fuel spills during construction activities. Ignition risks during fuel transfer operations. | Fatalities or serious injuries to employees may occur. Serious damage or contamination to the soil and surrounding environment. Cost to company due to project delays. Cancelations / Delays of flights. | SAFETY | 5 | 3 | 15 | Implement strict safety protocols for fuel storage and handling, including regular inspections, leak detection systems, and adherence to relevant regulations and standards. Follow proper procedures for fuel transfer operations, including the use of approved equipment, grounding and bonding, and adherence to safe work practices. Airport emergency procedure to be communicated to all employees. Certified fire fighters and emergency response teams to be available. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 7 | Working at Fall Risk Positions | Unsafe installation. Incompetent installers, inspectors. Unsafe design. Incompetent users. Unsafe behaviour. Failure of equipment, and | Falling to lower elevation, temporary structure collapsing/falling over, falling onto. Falling through. Falling down. | SAFETY | 5 | 3 | 15 | Registers to be completed at regular intervals. Ladder to be held by co- worker when used by worker. Ladders to be fastened if required for work purposes. Ladders to be on solid ground. Fall protection plan to be implemented. Fall risk work to be done under supervision. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| | | material. Not using PPE (Safety harness). | | | | | | | |
| 8 | Cranes and Lifting operations | Base unstable, unsafe erecting, unsafe operation, crane boom radius not known, operator untrained, falling from height, working under suspended load, unsafe rigging practices, damaged slings. | Crane collapse. Crane boom fall. Crane boom damaging property. Falling loads. Operator fear of height or not resting when climbing to crane top. Workers on site not moving out of slew path. Load falling due to poor rigging. Sling breaking under load causing load falling and injuring persons. | SAFETY | 5 | 3 | 15 | Only competent persons erecting the crane and base. Operator to be trained for the type of crane. Regular inspections done and result recorded. Operator to take rest breaks when climbing to control cabin. Workers to be trained to obey banksman warnings. Rigging to be done by competent person and rigging study done where required. Slings inspected regularly and damaged ones rejected. All bolts and to be torqued to manufacture's specifications | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 9 | Transportation of Equipment to the site | Low beds Off-loading. | Traffics accidents. Equipment falling. Equipment falling on people. Employees falling off transport. | SAFETY | 3 | 1 | 3 | Traffic Management Plan to be implemented. Speed limit to be indicated with visible signage. Dedicated offloading areas to be established. Equipment to be offloaded by competent and appointed staff only. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 10 | Site Establishment | Clearing Fencing. Off-loading of containers. | Ergonomics injuries. Equipment falling resulting in equipment damage and injury to employees. | SAFETY | 2 | 2 | 4 | DSTI's and/or PTO's to be done before works commence. Method statement and RA to be communicated to all workers involved. All plant and/or machinery to be checked and test and/or service record to be on file. Equipment to be offloaded by competent and appointed staff only. Site fence to be inspected and ensured that all areas are closed off. Kitchen back doors leading into the site to be locked and kept locked at all times. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 11 | Housekeeping, stacking & storage | Un-levelled laydown areas, unsafe height/width ratio, laydown/rubble areas not demarcated, unsafe stacking/tools at work area, tripping hazard, unsafe Hazchem storage, unsafe storage of flammable material. | Damage to equipment/material/p property, personal injury too workers/public & fire. | SAFETY, HEALTH & ENVIRONMENTAL | 3 | 4 | 12 | Inspect works area before works commence, DSTI'S and/or PTO. Stacking and storage regulations to be implemented. Rubble removal to be done regularly, removal to a registered dump site. Chemical / facilities / store areas to be separate. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| 12 | Demolition | Dust, falling bricks, flying particles, swinging of hammers, weight of equipment. Rubble accumulation. Obstructing roads and other areas outside of the construction area. | Noise induced hearing loss, injuries from flying particles, dust inhalation. Accidents, Incidents & Property damage. | SAFETY & HEALTH | 3 | 4 | 12 | Demolition permit to be obtained before any demolition works may commence. Site specific demolition plan, including method statement to be drawn up and communicated to all staff involved, after approved by the client safety representative. Where required engineer approval to be obtained before any structural demolition works may commence. Written confirmation to be obtained that all electricity, water and gas lines have been closed off by a competent, appointed person. Mitigate dust with regular water spraying. Required PPE to be used. Barricading to be used around all rubble heaps & rubble to be removed from site regularly. Visible warning signage to be displayed. Roads to be kept clear off all material and/or rubble. Only dedicated stacking / storage areas to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 13 | Formwork | Weight of equipment, sharp edges. Unsafe openings in slabs, unprotected edges on slabs/formwork/stairways/lift shafts, no warning signs pertaining to edges. | Personal Injury, Fatality, Falls, bumps, cuts, splinters & Property damage. | SAFETY | 5 | 3 | 15 | Required PPE to be used. Temporary works inspector to identify all unsafe areas of concern and discuss and notify the team accordingly before works commence. Protect all edges, openings in all areas. Formwork to be done by competent person and inspected prior to pouring of any concrete. To be signed off by engineer prior to pouring of concrete. Employees to be equipped with the applicable fall arrest equipment and life lines. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 14 | Fixing re-bar | Sharp edges, sharp points & off cuts. | Injuries, cuts and bruises, eye injuries & pollution. | SAFETY & ENVIRONMENTAL | 3 | 3 | 9 | Required PPE to be used Walk area with staff and indicate danger areas before works commence DST's and/or PTO to be done Rebar caps to be used | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 15 | Stripping of Formwork | Weight of material, formwork shutter oil, sharp edges. | Foot injuries, hand injuries, eye injuries. Spillage of oils and degreasers into ground water, etc. | SAFETY, HEALTH & ENVIRONMENTAL | 3 | 3 | 9 | Required PPE to be used. Ensure enough staff to minimise the risk of moving / carry heavy material. Spill kits to be used where applicable. Drip trays and/or ground protection to be used for all possible spillages. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| 16 | Brick work (General) | Rough brick surfaces, unnatural postures, repetitive movements. | Twisting and straining of back muscles while lifting bricks and hand injuries. | SAFETY & HEALTH | 2 | 4 | 8 | Job rotating. Ensure workers rest between work sequence. Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 17 | Cement and Concrete Mixing | Wet cement, repetitive movements. | Ingestion, inhalation of cement. Dermatitis | HEALTH | 2 | 2 | 4 | MSDS to be communicated. Required PPE to be used. Job rotating. Ensure staff rest between work sequence. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 18 | Scaffolding Erection and Dismantling | Not using fall protection equipment, unstable scaffolds, objects at height. | Falls, Fatalities, Fractures, falling objects, collapsing of scaffolding, objects falling from scaffolds. | SAFETY | 5 | 3 | 15 | Scaffold must comply to regulations. Scaffold to be built by competent staff, inspected and signed off by competent inspector. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 19 | Work in Elevated Positions (Scaffolds) | Working at heights, unsafe scaffolds, unstable footing. | Falls from heights, falling objects, collapsing of scaffolds. | SAFETY | 5 | 3 | 15 | Scaffold must comply to regulations and standards. Scaffold to be built by competent staff, inspected and signed off by competent inspector. Competent / trained staff only to work at heights with valid working at heights training certificate. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 20 | Electrical Installations (Temporary) | Exposed switches and wires cables, lying in pools of water. Un-insulated cables and wires. | Electrocution & Burns | SAFETY | 5 | 3 | 15 | Electrical Installations to be done by competent registered electrician. Temporary COC to be issued for installation. Electrical RA and SWP to be communicated to all involved | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 21 | Load & Unload by Hand | Rough surfaces, sharp edges, weight of loads. | Back and hand injuries. | SAFETY & HEALTH | 1 | 4 | 4 | Required PPE to be used. Ensure staff rest between work sequence. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 22 | Mechanical lifting including movement of loads and handling | Overhead loads, uncontrolled movement of loads, unsafe lifting practices, unsafe lifting equipment. | Equipment or parts thereof falling causing injuries, fatalities & damage to property. | SAFETY | 5 | 2 | 10 | Dedicated offloading areas to be established. Equipment / material to be offloaded by competent and appointed staff only. All plant and/or machinery to be checked and test and/or service record to be on file. Equipment / material to be offloaded by competent, appointed staff only. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| 23 | Handling of Asbestos | Asbestos fibres can become airborne when disturbed. | Asbestosis, lung cancer, mesothelioma, plural thickening. | HEALTH | 2 | 3 | 6 | Conduct a risk assessment and safe work procedure for the handling, storage and disposal of asbestos. Conduct air monitoring. Employees to be equipped with the correct PPE. Ensure strict adherence to the Asbestos Abatement Regulations. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
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MATERIAL RISKS

| | ACTIVITY | POTENTIAL HAZARD | POTENTIAL RISK | SAFETY, HEALTH & ENVIRONMENTAL IDENTIFICATION | PROBABILITY | SEVERITY | RISK RATING | CONTROL MEASURES | LEGAL REFERENCE |
|---|-------------------|---|---|---|-------------|----------|-------------|--|--|
| 1 | Bricks | Rough brick surfaces, unnatural postures, repetitive movements, poor stacking. | Twisting and straining of back muscles. Hand injuries. Stack collapse on top of worker. | SAFETY | 3 | 2 | 6 | Ensure hand tools are in good condition and used correctly by supervisor. Correct PPE used. Stacking and storage of bricks to be supervised. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 2 | Reinforcing Steel | Sharp edges, sharp points, off cuts, wire cuts | Injuries, cuts and bruises, eye injuries, pollution | SAFETY | 2 | 3 | 6 | Tie reinforcing steel according to drawings. Use correct PPE when tying steel. Clean steel tying area at least daily and place off-cuts in provided skip. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 3 | Finishes | Hand tools used incorrectly. Exposure to hazardous materials, dust and toxic vapours. Slip, trip and fall hazards. Not using correct PPE. | Hand injuries. Injuries to persons. Occupational disease, | SAFETY & HEALTH | 3 | 2 | 6 | Ensure hand tools are in good condition and used correctly by supervisor. Correct PPE used. Handle and install hazardous materials according to manufacturer's instructions. Use Hazardous chemicals according to MSDS. Remove slip, trip hazards from work area. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 4 | Electrical | Electricity | Electrical shocks, Severe injuries (burns). | SAFETY | 4 | 3 | 12 | Installation work done on non- live circuits as far as possible. Use lockout procedure where live work must be done. Competent person/s to provide COC for new circuits / installation after testing thereof. Comply with the Electrical Installation regulations. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| 5 | Signage | Emergency, directive, fire equipment position, assembly point signage not displayed | Chaotic conditions existing in emergency situations | SAFETY | 2 | 2 | 4 | Identify and display signage in positions where required. Maintain signage in good condition. Remove signage when no longer required. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
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HYGIENE AND ENVIRONMENT RISK

| | ACTIVITY | POTENTIAL HAZARD | POTENTIAL RISK | SAFETY, HEALTH & ENVIRONMENTAL IDENTIFICATION | PROBABILITY | SEVERITY | RISK RATING | CONTROL MEASURES | LEGAL REFERENCE |
|---|----------------------|---|--|---|-------------|----------|-------------|--|--|
| 1 | Site Facilities | Sleeping on site, Ablution, sanitation, Changing and washing facilities inadequate. Eating and Resting areas. | Non-Conformance to Legal Requirements as per Construction and Facilities Regulations. Eating on-site (diseases site contamination/pollution). | HEALTH & ENVIRONMENTAL | 3 | 2 | 6 | Toilets, ablutions, changing and washing facilities at site establishment. NO Sleeping on-site allowed unless written permission from the client obtained. Establish designated eating / resting areas with waste management / waste control measures. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 2 | Occupational Hygiene | Occupational Hygiene stressors, Loss of production, Diseases, contamination, | Diseases, Occupational Hygiene, Medical Surveillance, Toxicology/ Hazardous Chemicals, Biological Stress, Noise Induced Hearing Loss, Radiation. | HEALTH | 3 | 3 | 9 | Medical Surveillance Systems, AIA Assessments and Control measures, Hazardous Chemical stacking, storage and monitoring, Noise Induced Hearing Loss control measures, Soil Compacting Testing equipment controls. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 3 | Hazardous Chemicals | Flammable, Pollution, Explosion, Toxic, | Fire, Explosion, Toxic, Diseases, Environmental Pollution. | SAFETY & HEALTH | 4 | 3 | 12 | Hazardous Chemical Controls (Engineering and Admin), Waste Management. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 4 | Climate | Adverse/ Abnormal rainfall, Heat stress, Cold stress, | Flooding, Heat stress, Cold Stress, Loss of production, | SAFETY & HEALTH | 3 | 3 | 9 | No work allowed during inclement weather (specific scaffolds and excavation). Sufficient, suitable Personal Protective Equipment (clothing). Safe to use potable /drinking water to be made available. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

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| 5 | Housekeeping, stacking & storage | Un-levelled laydown areas, unsafe height/width ratio, laydown/rubble areas not demarcated, unsafe stacking/tools at work area, tripping hazard, unsafe Hazchem storage, unsafe storage of flammable material. | Damage to equipment/material/ property, personal injury too workers/public & fire. | SAFETY | 3 | 3 | 9 | Stacking and storage regulations to be implemented & monitored. Rubble removal to be done regularly, removal to a registered dump site (Env. Man. Plan) (EIA, Record of Decision). Chemical / facilities / store areas to be separated and in one area (as far as reasonably practicable). Inspect works area before works commence, DSTI's and/or PTO to be completed. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 6 | Access and Egress Routes to/ from site | Inadequate barricading/hoarding, No signage. ACSA staff, pedestrians & public exposure to construction activities. | Collisions. Severe injuries. Loss of production. Public Liability (claims). | SAFETY | 3 | 3 | 9 | Traffic management plan to be developed by the contractor. Safety awareness and directional signage to be prominently displayed. Barricading and hoarding to be erected and inspected daily. Flagmen to be on duty to direct people and monitor access routes. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 7 | Decanting and hoarding. | Theft, Vandalism, loss of production, unauthorised persons entering site, persons miss-directed. | Theft, Loss of Production, damage, arson, Injury to public. | SAFETY | 3 | 2 | 6 | Construction: Erect sound fencing/ hoarding and manage access control / security. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 8 | Emergency and Evacuation | No plan, no alarm, escape way not demarcated, no assembly point, no first aid equipment, no firefighting equipment, no trained fire fighters. | Injury, burns, persons unable to escape, persons not knowing where to assemble (chaos), injured not treated, fire not extinguished (in case the emergency is a fire), nobody able to extinguish a fire. | SAFETY | 3 | 3 | 9 | Provide an alarm on site. Demarcate the escape route. Demarcate the assembly point position. Provide first aid and firefighting equipment on site. Do evacuation drills. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 9 | Noise (General Machinery) | Excessive noise levels. | Noise induced hearing loss, accidents & noise pollution. | HEALTH | 3 | 3 | 9 | Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 10 | Vibration (General Machinery) | Excessive vibration & associated noise. | Vibration white finger, may result in kidney complications. | HEALTH | 3 | 2 | 6 | Required PPE to be used. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 11 | Lighting | Dark work areas. | Trips, cuts, bumps, falls & injuries. | SAFETY | 2 | 3 | 6 | Ensure adequate lighting in all work areas. | Occupational Health and Safety Act 85 of |

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| 12 | Fire | Poor housekeeping, storage practices, unsafe work practices. Combustible refuse: paper & plastics Flammable liquids: petrol, diesel, etc. Electrical equipment & property damage. | Fire leading to injuries, death, damage, time loss and costs, smoke pollution & property damage. | SAFETY & ENVIRONMENTAL | 3 | 4 | 12 | Proper storage facilities to be implemented for all chemicals as prescribed by regulations. MSDS to be communicated to all involved. Adequate RA and SWP to be implemented for all chemicals. Open fires on site to be banned. No excessive flammable material / chemicals to be stored on site. Quantities to be clearly noted and lists to be updated regularly. Comply with HCSR as prescribed. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 13 | Work position and postures | Unnatural postures, repetitive movement. | Back injuries, etc. Health complication from unnatural postures. | SAFETY & HEALTH | 3 | 2 | 6 | Communicate specific topic. Toolbox talks, RA and SWP to ensure all workers understand the dangers of unnatural postures. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 14 | Severe weather conditions | Rain, strong wind, hail, lightning, flooding, extreme heat/cold, Slipping, unfavourable conditions for cranes | Personal injuries, damage to equipment, material, property, heat exhaustion & cold exposure. | SAFETY, HEALTH & ENVIRONMENTAL | 3 | 3 | 9 | Check weather conditions regularly. Ensure there is a clean drinking water area for all workers which must be covered. PPE to be supplied to workers as required for their works. | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 15 | Ergonomics | Awkward positioning of materials and equipment. | Possible back injuries. Long term damage to spine. Fatigue from a non-ergonomic situation/environment. | SAFETY & HEALTH | 1 | 4 | 4 | The following requirements to be complied with as to minimize ergonomic risks: 1. Where possible manual handling will be limited and lifting machines be used; and 2. Staff will be encouraged to use the correct method when lifting and / or carrying items. | Occupational Health and Safety Act 85 of 1993 and Regulations |

FINANCIAL & LEGAL RISKS

| | ACTIVITY | POTENTIAL HAZARD | POTENTIAL RISK | SAFETY, HEALTH & ENVIRONMENTAL IDENTIFICATION | PROBABILITY | SEVERITY | RISK RATING | CONTROL MEASURES | LEGAL REFERENCE |
|---|---------------------------------|--|--|---|-------------|----------|-------------|--|--|
| 1 | Cost for OHS Requirements | No funds for: formal and informal training, PPE, stationary, printing, notice boards, signage, first aid equipment, firefighting equipment, facilities, lifting tackle certification, medical surveillance, load testing, COC temporary electricity. | Lack of the following on the project: formal and informal training, PPE, stationary, printing, notice boards, signage, first aid equipment, firefighting equipment, facilities, lifting tackle certification, medical surveillance, load testing, COC temporary electricity. | SAFETY, HEALTH & ENVIRONMENTAL | 1 | 2 | 2 | Provide funding for: formal and informal training, PPE, stationary, printing, notice boards, signage, first aid equipment, firefighting equipment, facilities, lifting tackle certification, medical surveillance, load testing, COC temporary electricity | Occupational Health and Safety Act 85 of 1993 and Regulations. |
| 2 | Legal Framework for the Project | Not complying with legislation, regulations and standards | Court cases against project, fines, imprisonment | SAFETY, HEALTH & ENVIRONMENTAL | 1 | 2 | 2 | Apply the legal framework of all Acts, regulations and standards that have effect on the project to the work and administration of the project. | Occupational Health and Safety Act 85 of 1993 and Regulations. |

SAFETY SPECIFICATION AND BASELINE RISK ASSESSMENT ISSUE REGISTER

PROJECT: CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

| Date of Original Safety Specification Compilation | Compiled By | Issue Date |
|---|---------------|------------|
| 13 October 2025 | M Haripersadh | |

| Revision Summary | Revised By | Revision Date |
|------------------|------------|---------------|
| | | |
| | | |

Acknowledgement:

I, _____ representing
 _____ (Contractor),
 Upon receipt of this specification, agree and acknowledge ACSA's right to impose penalties should I or any of my employees or contractors fail to comply with these conditions.

Signature of Contractor Date

At _____ (Airport) _____ (dd/mm/yyyy)

Comments:

C3.7.2: ENVIRONMENTAL WORK INSTRUCTIONS

THE ACSA ENVIRONMENTAL SPECIFICATION

It is a requirement of the Airports Company South Africa (ACSA) - that all construction works within ACSA airports be undertaken in accordance with the ACSA Environmental Specification

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| EP7 | Management and Monitoring |
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LIST OF ABBREVIATIONS

| | |
|-------|--|
| ACSA | Airports Company South Africa |
| AEC | Airport Environmental Committee |
| EO | Environmental Officer |
| ES | Environmental Specification |
| EMS | Environmental Management System for ACSA |
| ESA | Environmentally Sensitive Areas |
| SABS | South African Bureau of Standards |
| SAHRA | South African Heritage Resource Agency |
| SSSI | Sites of Special Scientific Interest |

PART 1: ACSA ENVIRONMENTAL SPECIFICATIONS OVERVIEW

1. PURPOSE OF THE ENVIRONMENTAL SPECIFICATIONS

The purpose of the Environmental Specifications (ES) is to translate the recommendations of the Environmental Management System (EMS) into a contractual environmental specification for application during construction activities.

The Environmental Specifications will be applicable to all construction activities that occur on ACSA owned and/or managed airports. Construction activities include construction of buildings, infrastructure as well as developer / tenant property and rehabilitation works at the airport.

2. IMPLEMENTATION OF THE ENVIRONMENTAL SPECIFICATIONS

The Environmental Specifications is intended for dissemination by ACSA to the “Employer”, who is the party for whom the construction works are to be executed (hereafter referred to as the Employer). The Employer may therefore be ACSA (the relevant Departmental Manager responsible for construction activities), a tenant or a developer with a land lease or another party such as a contractor responsible for developing or rehabilitation of the site or sites at the airport.

The Employer shall ensure that the Environmental Specification is included in the Tender Document(s) issued to the prospective Contractor and is also responsible for appointing/designating, in writing, a Responsible Person for the construction works.

The Responsible Person would manage the requirements outlined in the Environmental Specifications on behalf of the Employer. The Contractors shall incorporate the requirements of the ES in their tender submissions to the Employer and are responsible for implementing the ES on a daily basis.

The Environmental Officer (EO) will be responsible for updating the ES as required, auditing the implementation of the ES for each construction project and for maintaining the document control and record systems associated with it.

The Environmental Specifications report has been structured to be incorporated into a standard engineering tender document as the Environmental Particular Specification.

A ‘Particular Specification’ is the terminology used for a specification that covers activities that are not adequately covered in the standardised SABS 1200 series specifications for engineering contracts, or where the specification is sufficiently detailed to make it inappropriate for inclusion as a variation or addition to a standardised specification.

The Environmental Specification is a generic document applicable to construction projects at all ACSA airports. The majority of the specifications within the ES will apply to all construction work, although it is anticipated that variations to this specification may need to be included for some specific developments. Variations would be made by the Environmental Officer, prior to the issue of the ES to the Employer.

PART 2: ENVIRONMENTAL PARTICULAR SPECIFICATIONS

Index to Environmental Particular (EP) Specifications

| Clause | Description |
|---|---|
| EP1 | INTRODUCTION |
| EP2 EP2.1 EP2.2 | ORGANISATIONAL REQUIREMENTS Organisational overview and structure Roles and responsibilities |
| EP3 | METHOD STATEMENTS |
| EP4 EP4.1 EP4.2 EP4.3 EP4.4 EP4.5 EP4.6 EP4.7 EP4.8 EP4.9 EP4.10 EP4.11 EP4.12 EP4.13 EP4.14 EP4.15 | GENERAL SITE PROCEDURES Demarcation of Environmentally Sensitive Areas (ESAs) Location of camp and depot Demarcation of the site Ablution Facilities Domestic waste water Refuse Protection of the fauna and flora Defacement of natural features Protection of archaeological and paleontological sites Effluent and storm-water management Dust control Noise control Materials use, handling, storage and transport Emergency procedures Social issues |
| EP5 EP5.1 EP5.2 EP5.3 | SITE CLEARANCE Removal of top soil Stabilisation of steep slopes Removal of alien vegetation |
| EP6 EP6.1 EP6.2 | SITE REHABILITATION Scope Landscaping and preparation for re-vegetation |
| EP7 EP7.1 EP7.2 EP7.3 EP7.4 EP7.5 EP7.6 | MANAGEMENT AND MONITORING: Monitoring and reporting Environmental awareness training Non-conformance and corrective actions Documentation Incentives and penalties External audit |
| EP8 | MEASUREMENT AND PAYMENT |

EP1 INTRODUCTION

The ES has been prepared and is to be implemented as part of the Environmental Management Systems for ACSA.

The ES provides specifications that the Contractor shall adhere to, in order to minimise adverse environmental impacts and optimise opportunities associated with construction activities.

The ES is provided to the Contractor at the tender stage so that the costs of implementing the ES are included into the contract cost and so that the Contractor is aware of his environmental responsibilities before commencing work.

The aim of this ES is to ensure that environmental management of site activities is integrated into the other management systems implemented by the Contractor (e.g. quality management, health and safety). For this reason, the ES includes a requirement for the Contractor(s) to develop their own system (i.e. roles, responsibilities and timing) for ensuring that the requirements of the ES are met, and that the Contractor checks, by means of an internal audit, that this system is operating effectively.

EP2 ORGANISATIONAL REQUIREMENTS

EP2.1 Organisational Structure

This section outlines the required management structure for the administration of the ES, with particular emphasis on the roles and responsibilities of key individuals.

The organisational structure for the implementation of the ES is presented in Figure 1 and should be viewed in conjunction with the roles and responsibilities below.

EP2.2 Roles and responsibilities

EP2.2.1 Airports Company South Africa

Airports Company South Africa is ultimately responsible for ensuring effective environmental management at the airport in terms of the scope of the Environmental Management Systems.

EP2.2.2 Environmental Officer (EO)

The Environmental Officer has been appointed by ACSA, and is responsible for monitoring the implementation of the requirements of the Environmental Specification by the relevant parties as specified.

The Environmental Officer shall:

- Review and approve in writing valid method statements;
- Inspect the Contractor's site to check compliance with method statements and the requirements of the ES (at least weekly and more frequently if thought to be warranted by the EO) and maintain inspection reports on file;
- Meet with the Responsible Person for the developer or tenant, whereby the Responsible Person reports on the implementation of the ES (at least monthly) and keep a record of minutes of the above meetings;
- Provide material / manuals and assistance to the Responsible Person for the initial environmental training sessions; and
- Report in writing any problems related to conformance with the ES which cannot be resolved in co-operation with the relevant Responsible Person to ACSA Managers or the relevant developer / tenant.

EP2.2.3 Employer

The Employer shall:

- Include the ES, with any revisions, in any tender document related to construction activities on site;
- Designate in writing a Responsible Person for the proper implementation of the ES; and

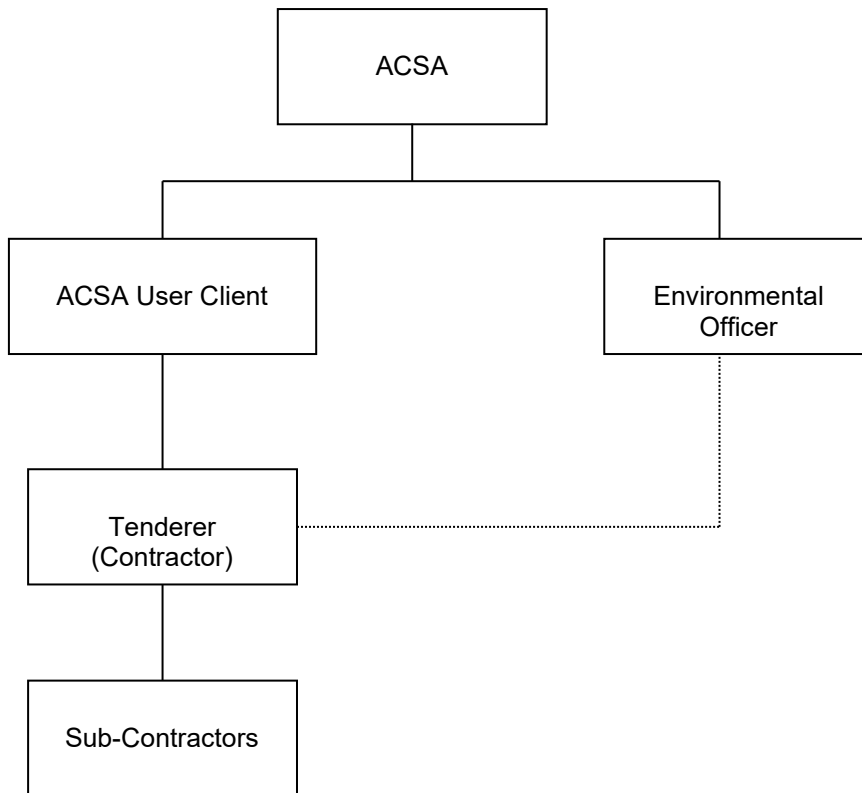
- Send a copy of the letter of appointment of the Responsible Person to the EO.

EP2.2.4 Responsible Person

The Responsible Person for each building site or infrastructure installation shall:

- Develop a system to ensure that the ES is effectively implemented;
- Audit this system so that he/she can demonstrate to the EO that the ES is being effectively implemented;
- Ensure that Contractors staff, sub-contractors, suppliers etc. receive appropriate environmental awareness training prior to commencement of work on the project and maintain records of training. It is anticipated, though not a requirement, that the Responsible Person will deliver training sessions;
- Ensure that responsible persons for sub-contractors are designated to carry out the requirements of the Environmental Specifications
- Submit method statements to the Environmental Officer for approval as specified in the Environmental Specifications and maintain approved method statements on file; and
- Have sufficient authority to issue site instructions to the Contractors staff on their site. It is probable, though not a requirement, that the Responsible Person will be the Engineers Representative.

Figure 1: Organisational structure showing lines of responsibility and communication during the construction phase at the airport.



EP3 METHOD STATEMENTS

The Contractor shall submit a written method statement to the Responsible Person for approval, covering those activities which are identified (in this document and/or by the Environmental Officer), as being potentially harmful to the environment.

Method statements indicate how compliance with the Environmental Particular Specification will be achieved.

The method statement shall state clearly:

- timing of activities;
- materials to be used;
- equipment and staffing requirements;
- the proposed construction procedure designed to implement the relevant environmental specifications;
- the system to be implemented to ensure compliance with the above; and
- other information deemed necessary by the Environmental Officer and Responsible Person.

The method statement shall be submitted at least five working days prior to expected commencement of work on an activity, to allow the Responsible Person time to study and approve the method statement. The contractor shall ensure ACSA that the activity is conducted according to the method statement which will be approved in writing by the ACSA successful tenderer (and also signed by the ACSA Environmental Officer), which shall be done within five working days of receipt.

Due to changing circumstances, it may be necessary to modify method statements. In such cases, the proposed modifications must be indicated and agreed upon in writing between the Environmental Officer and Responsible Person. The EO and Responsible Person must retain records of any amendments and ensure that the most current version of any method statement is being used.

EP4 GENERAL SITE PROCEDURES

EP4.1 Demarcation of Environmentally Sensitive Areas

Before construction commences there needs to be confirmation by ACSA's Environmental Officer that the vegetation in the area to be impacted by construction activities is not identified as an Environmentally Sensitive Area (ESA). However, should Environmentally Sensitive Areas be identified during the construction period the following actions would have to be taken to minimize adverse impacts:

- Environmentally Sensitive Areas, shall not be entered or used for any purpose unless a written motivation has been submitted to the EO by the Responsible Person, and written approval has been obtained from the EO;
- The Contractor shall exercise special care when working close to the ESA's in order to avoid damage or physical disturbance of these areas. The EO may instruct the Responsible Person to restrict the number of construction personnel and equipment operating near Environmentally Sensitive Areas (ESA's);
- Damage caused to ESAs by the Contractor shall be cause for the Contractor to make good any damaged areas to the written satisfaction of the EO;
- The Contractor shall note the proximity to the site of any designated ESAs. The Contractor shall fence any ESAs located within 20-m of the site boundary. The fencing shall extend along the boundary of the ESA for sufficient distance to ensure that the location of the ESA is obvious from the Contractor's site and from the approach to the Contractor's Site; and
- The Contractor shall make provision for the demarcation of ESAs with fencing to the following specifications:

Posts shall be wooden droppers or steel standards where the ground is too hard for wooden droppers to be driven in;

- The posts shall be long enough and spaced closely enough to support a strand of 12-gauge wire at 750- mm above the ground level; and
- The top 300-mm of the posts shall be painted white for easy visibility.

EP4.2 Location of camp and depot

The Contractor's Camp and Materials Storage Area shall be located at a position approved by the Responsible Person. No site staff other than security personnel shall be housed on site.

The Contractor shall provide water and/or washing facilities at the Contractor's Camp for personnel.

The Contractor's Camp and Materials Storage Area shall be kept neat and tidy and free of litter.

EP4.3 Demarcation of the site

It is important that activities are conducted within a limited area to facilitate control and to minimise the impact on the existing natural environment, existing tenants and other construction activities in the vicinity and public thoroughfares.

The Contractor shall demarcate the boundaries of the site in order to restrict his construction activities to the site. The method of demarcation and the location of the demarcated area shall be determined by the Contractor and approved by the Responsible Person before any work being undertaken. The Contractor shall ensure that all plant, labour and materials remain within the boundaries of the site. Failure to do so may result in the Contractor being required to fence the boundaries of the site at his/her own expense to the satisfaction of the Responsible Person.

If additional areas (e.g. for lay down, rest areas) are required, these must be approved in writing by the Responsible Person. The Contractor is advised that it may take approximately one week to obtain such permission from the Responsible Person.

Suitable temporary fencing may need to be erected during construction to minimise the risk of injury to the public, and animals.

EP4.4 Ablution Facilities

The Contractor shall provide the necessary ablution facilities for all his personnel.

Toilets with chemical disinfectants shall be provided, with a minimum of one toilet per 15-persons. Toilets shall be easily accessible and shall be transportable. The toilets shall be secured to prevent them from blowing over, and shall be provided with an external closing mechanism to prevent toilet paper from being blown out. Toilet paper dispensers shall be provided in all toilets. Toilets shall be cleaned and serviced regularly by a reputable toilet servicing company. Toilets shall be emptied before long weekends and builders' holidays.

The Contractor shall ensure that chemicals and/or waste from toilet cleaning operations are not spilled on the ground at any time. Should there be repeated spillage of chemicals and/or waste (i.e. more than three incidents), the EO shall require the Contractor to place the toilets on a solid base with a sump at his own expense. Accumulations of chemicals and waste will have to be removed from the site and disposed at an approved waste disposal site or sewage plant.

Abluting anywhere other than in the toilets shall not be permitted. Repeated use of open areas, rivers or other areas for ablution purposes (i.e. more than three incidents) may result in the guilty party being given a spot fine. The Contractor shall also be responsible for cleaning up any waste deposited by his personnel.

EP4.5 Domestic waste water

Waste-water from any other ablution or kitchen facilities on site shall be discharged into a suitable conservancy tank. The Contractor shall be responsible for ensuring that the system continues to operate effectively throughout the project and that the conservancy tank is emptied as required during the project. The Contractor shall employ a suitable qualified sub-contractor or the local authority to empty the conservancy tank.

EP4.6 Refuse

Refuse refers to all solid waste, including construction debris (e.g. wrapping materials, timber, cans etc.) waste and surplus food, food packaging etc.

The Contractor shall institute an on-site waste management system that is acceptable to the Responsible Person in order to prevent the spread of refuse within and beyond the site. The Contractor is reminded that wind velocities on the construction site can be extremely high.

All waste shall be collected and contained immediately. The Contractor shall institute a weekly clean up of the site if so instructed by the Responsible Person. This daily/weekly clean up shall be for the Contractor's account.

The Contractor shall not dispose of any waste and/or construction debris by burning or burying. The use of waste bins and skips is recommended. The bins shall be provided with lids and an external closing mechanism to prevent their contents from blowing out. The Contractor shall ensure that all waste is deposited by his employees in the waste bins for removal by the Contractor. Bins shall not be used for any purposes other than waste collection and shall be emptied on a regular basis. All waste shall be disposed of off-site at approved landfill sites.

Waste generated at the construction camps shall be separated into recyclable and non-recyclable waste, and shall be separated as follows:

- Hazardous waste (including used oil, diesel, petrol tins, paint, bitumen, etc.);
- Recyclable waste (paper, tins, glass);
- General waste; and
- Reusable construction material

Recyclable waste shall be deposited in separate skips/bins and removed off-site for recycling. The Contractor may wish to enter into an agreement with the surrounding communities and/or his staff with regard to the collection and sale of recyclable and reusable materials.

Hazardous waste, including waste oil and other chemicals (e.g. paints, solvents) shall be stored in (an) enclosed area(s), and shall be clearly marked. If deemed necessary by the Responsible Person, the Contractor shall obtain the advice of a specialist waste expert concerning the storage of hazardous waste. Such waste shall be disposed of off-site by a specialist waste contractor, at a permitted hazardous waste disposal site.

The EO shall be consulted about, and agree to, the method of storage and disposal of hazardous waste.

The Contractor is advised that spot fines for littering have been included in this document. Offenders found littering will be liable for a spot fine.

EP4.7 Protection of fauna and flora

All fauna within and around the site shall be protected. Birds and animals shall not be caught or killed by any means, including poisoning, trapping, shooting or setting of snares. Offenders may be prosecuted in terms of the Animals Protection Act 71 of 1962.

EP4.8 Defacement of natural features

Defacement of any features outside of the construction site shall not occur without the prior written permission of the Responsible Person. Any features defaced by the Contractor shall be restored to the satisfaction of the Responsible Person.

EP4.9 Protection of archaeological and palaeontological Sites

If any possible palaeontological /archaeological material is found during excavations, the Contractor shall stop work immediately and inform the Responsible Person. The Responsible person will inform the South African Heritage Resource Agency (SAHRA) and arrange for a palaeontologist/archaeologist to inspect, and if necessary

excavate, the material, subject to acquiring the requisite permits from the National Monuments Council. Costs incurred will be for the Employer's account.

EP4.10 Effluent and storm-water management

EP4.10.1 General

The Contractor must ensure that pollution of the ground or surface water does not occur as a result of site activities. Pollution could result from the accidental release of contaminated run-off from construction camps, discharge of contaminated construction water, chemicals, oils, fuels, sewage, run-off from stockpiles, solid waste, litter, etc.

EP4.10.2 Run off from construction camps

The Contractor shall ensure that polluted run-off (excluding silt "pollution"), such as run-off from construction camps where equipment is cleaned and/or serviced, fuel stores, workshops, etc. is not discharged overland. The Contractor may direct it into the local sewerage main, with the written permission of the Responsible Person. Alternatively, the Contractor shall erect an earth/brick berm 0,5 m high around such areas and shall collect all run-off from these areas and store it in a conservancy tank for removal from the site. The Contractor shall ensure that silt-laden water is not discharged directly into any surface watercourses (i.e. vleis, etc.), and shall take suitable measures to prevent this.

Natural run-off shall be diverted away from any camps towards the storm-water drains where these are available. Special care must be taken in areas susceptible to erosion, e.g. steep slopes. The Contractor shall ensure that excessive quantities of sand, silt and silt-laden water do not enter the storm-water drain system, or any surface watercourse. The Contractor shall take appropriate measures, e.g. the erection of silt traps, or drainage retention areas, to prevent silt and sand entering drainage or watercourses. Any partial or complete blockage of the storm-water drainage system shall be cleared by the Contractor at his / her own expense.

EP4.10.3 Discharge of construction water

Construction water refers to all water dirtied as a result of construction activities.

The Contractor may discharge silt laden water overland and allow this water to filter into the ground. However, s/he shall ensure that he does not cause erosion as a result of any overland discharge.

The Contractor may discharge limited quantities (less than 50L) of cement-laden water overland, i.e. washings from trowels, wheelbarrows and the like.

Water from washing large concrete-mixing equipment (mixers and the like) shall not be discharged overland. Such water shall be collected in a conservancy tank, removed from the site and disposed of in the correct manner. The Contractor may consider reusing such water for washing other concrete equipment to minimise the amount required to be removed off-site.

Trucks delivering concrete shall not wash the trucks or the chutes on the site. All washing operations shall take place off-site at a location where wastewater can be disposed of in the correct manner.

EP4.10.4 Servicing/fuelling of construction equipment

Servicing and fuelling should preferably occur off-site.

However, if these activities occur on site, the Contractor shall ensure that all servicing of vehicles and equipment takes place in designated areas agreed upon by the Responsible Person. All waste shall be collected and disposed of off-site at an appropriately licensed landfill site. All equipment that leaks onto the ground shall be repaired immediately or removed.

Similarly, no vehicles or machines shall be refuelled on site except at designated refuelling locations, unless otherwise agreed with the Responsible Person. The Contractor shall not change oil or lubricants anywhere on site except at designated locations, except if there is a breakdown or an emergency repair. In such instances, the

Contractor shall ensure that he has Drizit pads (or equivalent) and/or drip trays available to collect any oil, fluid, etc.

EP4.10.5 Fuels and chemicals

The Contractor shall take all reasonable precautions to prevent the pollution of the ground and/or water resources by fuels and chemicals as a result of his activities.

The Contractor shall keep the necessary materials and equipment on site to deal with ground spills of any of the materials used or stored on site.

The Contractor shall ensure that no oil, petrol, diesel, etc. is discharged onto the ground. Pumps and other machinery requiring oil, diesel, which is intended to remain in one position for longer than two days shall be placed on drip trays. The drip trays shall be emptied regularly and the contaminated water disposed of off-site at a facility capable of handling such wastewater. Drip trays shall be cleaned before any possible rain events that may result in the drip trays overflowing, and before long week ends and holidays.

The Contractor shall remove all oil-, petrol-, and diesel-soaked sand immediately and shall dispose of it as hazardous waste.

Should the Responsible Person/ECO and/or the relevant authorities deem it necessary to institute a programme for the removal of contaminated ground resulting from the non-compliance of the controls detailed above, these costs will be for the Contractor's account. Remedial action shall be approved by the ECO and relevant authorities, if appropriate.

EP4.11 Dust control

The Contractor shall be responsible for the continued control of dust arising from his/her operations, through measures including, but not limited to, spraying of water on bare areas, rotovating straw bales into the soil surface and the scheduling of dust-generating activities to times when wind velocity is low. Overhead sprayers shall not be used in windy conditions, due to water loss through evaporation. The use of water carts is preferred.

The Contractor shall inform the Responsible Person 48 hours in advance of anticipated "unavoidable" dust-generating activities. The Responsible Person and/or ECO may inform adjacent land users, tenants and communities about the possibility of dust pollution, and the approximate duration of the problem.

EP4.12 Noise control

The Contractor shall take all reasonable precautions to minimise noise generated on site as a result of his operations, especially when working in areas or on activities that may impact on neighbouring land users.

The Contractor shall comply with the applicable regulations with regard to noise.

The Contractor shall inform the Responsible Person 48-hours in advance of anticipated "unavoidable" noise-generating activities. The Responsible Person and/or Environmental Officer may inform adjacent land users, tenants and communities about the possibility of noise pollution and the approximate duration of the problem.

EP4.13 Materials use, handling, storage and transport

Procedure for material handling must be discussed with and approved by the Responsible Person prior to commencement of this activity.

EP4.13.1 Use of cement/concrete

The Contractor is advised that cement and concrete are regarded as highly hazardous to the natural environment on account of the very high pH of the material, and the chemicals contained therein. Therefore the Contractor shall ensure that:

- concrete is mixed on mortar boards, and not directly on the ground;

- visible remains of concrete, either solid, or from washings, are physically removed immediately and disposed of as waste. Washing visible signs into the ground is not acceptable; and
- all aggregate is also removed.

EP4.13.2 Fuel storage and use

Tanks containing fuels shall have lids and shall remain firmly shut. Only clean, empty tanks may be stored on the bare ground. Fuel stores shall be placed on a bunded sealed base - the bunds shall have a volume of 110% of the volume of the largest tank in the storage area. Any waste-water or spilled fuel collected within the bund shall be disposed of as hazardous waste.

The Contractor shall take all the necessary precautions to prevent fires or spills. No smoking shall be allowed in the vicinity of the fuel stores. Failure to adhere to this specification shall be cause for a spot fine being imposed on the offender.

The Contractor shall ensure that there is adequate fire-fighting equipment at the fuel stores.

EP4.13.3 Hazardous materials

The Contractor shall comply with all relevant national, regional and local legislation with regard to the transport, use and disposal of hazardous materials. If necessary, the Contractor shall obtain the advice of the manufacturer with regard to the safe handling of hazardous materials. Any claims against the Contractor shall be for his/her account.

The Contractor shall provide the Responsible Person with a list of hazardous substances on site, together with storage procedures for these materials.

The Contractor shall ensure that there is an emergency procedure to deal with accidents and incidents (e.g. spills) arising from hazardous substances. The Contractor shall report major incidents (spills in excess of 50 litres) to the Responsible Person immediately.

The Contractor shall maintain a register of spills or incidents involving hazardous materials, as well as measures taken.

The Contractor shall ensure that information on all hazardous substances is available to all personnel on site. The Contractor shall furthermore be responsible for the training of all personnel on site who will be handling the material about its proper use, handling and disposal.

EP4.13.4 Transport of materials outside the site

The Contractor shall comply with all the applicable local, regional and national by-laws with regard to road safety and the transport of materials, especially hazardous and/or toxic materials. Any claims against the Contractor shall be for his account.

The Responsible Person shall provide the Environmental Officer with a schedule of the proposed transportation of significant quantities of hazardous material onto the site, before commencing work on site. The Environmental Officer may request further details or notifications of specific material movements if considered necessary.

EP4.14 Emergency procedures

EP4.14.1 General

The Contractor shall ensure that emergency procedures are set up prior to commencing work. Emergency procedures shall include, but are not limited to, fire, spills, contamination of the ground, accidents to employees, use of hazardous substances, etc. Emergency procedures, including responsible personnel, contact details of emergency services, etc. shall be made available to all the relevant personnel and shall be clearly demarcated at the relevant locations around the site.

The Responsible Person shall advise the EO of any emergencies on site, together with a record of action taken.

EP4.14.2 Fire

The Contractor shall take all the necessary precautions to ensure that fires are not started as a result of his/her activities on site, and shall also comply with the requirements of the Occupational Health and Safety Act 85 of 1993.

No open fires shall be permitted on or off-site. Closed fires or stoves shall only be permitted at designated safe sites in the construction camps. Fires shall also not be permitted near any potential sources of combustion, such as fuel stores, stockpiles of plant material etc.

The Contractor is advised that sparks generated during welding, cutting of metal or gas cutting can cause fires. Every possible precaution shall therefore be taken when working with this equipment near potential sources of combustion. Such precautions include having an approved fire extinguisher immediately available at the site of any such activities.

The Contractor shall be liable for any expenses incurred by any organisations called to assist with fighting fires, and for any costs relating to the rehabilitation of burnt areas.

EP4.15 Social issues

EP4.15.1 Third party or public complaints

The Environmental Officer shall be responsible for responding to queries and/or complaints and may request assistance from the Responsible Person in this regard.

The Environmental Officer shall notify the Responsible Person of any complaints lodged by a third party, and request appropriate information and measures to address such complaints. The Environmental Officer shall be responsible for maintaining a complaints register in which all complaints are recorded, as well as action taken. This register shall be available to the Responsible Person and the Contractor on request.

EP4.15.2 Information sharing

The Responsible Person and/or the Contractor may need to make staff available for formal consultation with affected parties for the purpose of explaining the construction process and answering queries if necessary.

EP5 SITE CLEARANCE

EP5.1 Removal of topsoil

Following removal of vegetation from the site, all topsoil shall be removed (up to a maximum of 30-cm depth) and stock-piled for re-use in subsequent rehabilitation and landscaping activities. The stockpiles shall not be higher than 2-m in order to minimise composting. The stockpiles of topsoil shall be located in an area agreed with the Responsible Person.

EP5.2 Stabilisation of steep slopes

The disturbance of steep slopes, for example by the removal of vegetation, may result in slope instability and erosion by rain and surface run off. The Contractor shall ensure that slopes that are disturbed during construction are stabilised to prevent erosion occurring. Where re-vegetation of slopes is undertaken, this shall be in accordance with the specification provided in EP6.

Slopes that are susceptible to accidental damage during construction shall be protected to reduce the risk of disturbance.

Any erosion that does occur must be reinstated at the Contractor's cost.

EP5.3 Removal of alien vegetation

The Contractor shall clear all alien vegetation from areas within the demarcated site that are to be landscaped or which fall within open space or buffer zones (e.g. pipeline routes, road fringes).

EP6 SITE REHABILITATION

EP6.1 Scope

The Contractor shall be responsible for rehabilitating any areas cleared or disturbed for construction purposes that are to be incorporated into open space or buffer zones. The Contractor shall re-vegetate such areas in accordance with the specification provided below.

The Contractor shall stabilise, by straw rot ovation or other means, any areas that are cleared or disturbed for construction purposes which are not going to be incorporated into open space or buffer zones (i.e. areas that will be subsequently developed by another party).

All construction equipment and excess aggregate, gravel, stone, concrete, bricks, temporary fencing and the like shall be removed from the site upon completion of the work. No discarded materials of whatsoever nature shall be buried on the site or on any other land not owned by ACSA.

EP6.2 Landscaping and preparation for re-vegetation

Areas that require reshaping shall be cut, filled and compacted so as to follow the contours of the surrounding landscape. Topsoil removed from the area initially shall be replaced. Care must be taken not to mix the topsoil with the subsoil during shaping operations. Should a crust form on the soil before re-vegetation is commenced, the Contractor shall, at his own cost, loosen the crust by scarifying to a depth of 150-mm.

EP7 MANAGEMENT AND MONITORING

This section focuses on the systems and procedures required to ensure that the environmental specifications are effectively implemented. The emphasis is on monitoring, training and penalties/incentives aimed at ensuring compliance with this document. Suitable documentation and external checks are crucial to ensure compliance and methods to achieve this are also presented in this section.

EP7.1 General Inspection, Monitoring and Reporting

The Responsible Person shall:

- Inspect the site on a daily basis to ensure that the environmental specifications are adhered to.
- Provide the Environmental Officer with a monthly written report, detailing both compliance with the Environmental Specifications as well as general environmental performance.
- Maintain a record of major incidents (spills, impacts, complaints, legal transgressions etc) as well as corrective and preventive actions taken, for submission to the Environmental Officer at scheduled monthly report back meetings.
- Conduct regular internal audits to ensure that the system for implementation of the ES is operating effectively. The audit shall check that a procedure is in place to ensure that:
 - the Method Statements and Environmental Specifications being used are the up-to-date versions;
 - variations to the Environmental Specifications/Method Statements and non-compliances and
 - corrective action are documented;
 - appropriate environmental training of personnel is undertaken; and
 - emergency procedures are in place and effectively communicated to personnel.
- Provide the required information to the Environmental Officer during external audits conducted, as part of the Environmental Management Systems auditing procedure. The information required will include the reports of internal audits conducted by the Responsible Person.

EP7.2 Environmental awareness training

EP7.2.1 Environmental awareness training prior to commencing work

An initial environmental awareness training workshop shall be held prior to any work commencing at the airport. The Responsible Person shall organise (deliver) the workshop and will record the names of those attending. It is recommended that the Contractor allow one hour for this workshop. The workshop shall be attended by all site staff, including sub-contractor's staff.

The Contractor is responsible for ensuring that personnel commencing work on site after the start of the contract (who therefore miss the initial workshop) are also made aware of the environmental procedures before commencing work.

The emphasis should be on any (potential) environmental impacts relating to the construction activities to be undertaken on site and the related environmental precautions, which need to be taken to avoid or mitigate these impacts. The contractual obligation to comply with the specifications in the Environmental Specifications must also be emphasised (some training material will be specific to certain sites or tenders).

A general environmental awareness programme aimed at all employees of the Contractor, sub-contractors and suppliers is available from the Environmental Officer.

EP7.2.2 Additional environmental awareness sessions

If there are persistent breaches of the specifications contained in the Environmental Specification and/or if new environmental issues arise during the course of construction, the Environmental Officer may require additional environmental training sessions. Attendance at these sessions will be determined by the EO, in consultation with the Responsible Person. The Contractor shall make provision for one hour a month for attendance (of construction staff) at these meetings.

EP7.3 Documentation

The Responsible Person shall ensure that all records of spills, pollution incidents, spot fines, training details etc. are copied to the Environmental Officer for his/her records. All documents shall be open for inspection by the Airport Environmental Committee (AEC).

The Environmental Officer shall ensure that a register of public complaints and action taken thereon, plus the relevant documentation from the Contractors, is maintained.

EP7.4 Incentives and penalties

EP7.4.1 Incentives

The Environmental Officer may identify a Contractor that is best implementing this Environmental Specifications and may make a (monthly) award to, or acknowledge, that Contractor.

EP7.4.2 Penalties

Spot fines shall be imposed by the Environmental Officer on Contractors who are found to be infringing these specifications. The Contractor shall be advised in writing of the nature of the infringement and the amount of the spot fine, and furthermore the Contractor shall determine how to recover the fine from the relevant employee and/or sub-contractor. The Contractor shall also take the necessary steps (e.g. training) to prevent a recurrence of the infringement and shall advise the Environmental Officer accordingly.

The Contractor is also advised that the imposition of spot fines does not replace any legal proceedings by the Council, authorities, land owners and/or members of the public may institute against the Contractor.

Spot fines shall be between R500 and R2000, depending upon the severity of the infringement. The decision on how much to impose will be made by the Environmental Officer, and will be final. In addition to the spot fine, the Contractor shall be required to make good any damage caused as a result of the infringement at his/her own expense.

A preliminary list of infringements for which spot fines will be imposed is as follows:

- moving outside the demarcated site boundaries;
- littering of waste on site and surrounds and burying waste on site and surrounds;
- smoking in the vicinity of fuel storage and filling areas and in any other areas where flammable materials are stored/used;
- making fires outside designated areas;
- defacement of natural features;
- spillage onto the ground of oil, diesel, etc;
- picking/damaging plant material;
- damaging/killing wild animals; and
- additional fines as determined by the Environmental Officer.

The Responsible Person may also order the Contractor to suspend part or all the works if the Contractor repeatedly causes damage to the environment by not adhering to the ES (i.e. more than 3 cases of infringements). The suspension will be enforced until the offending actions, procedure or equipment is corrected. No extension of time will be granted for such delays and all costs will be borne by the Contractor.

EP7.5 External audit

Regular scheduled audits of the EMS will be conducted. However, this is not a dedicated audit of the implementation of this document (which is one of many components of the EMS). Nevertheless, it is anticipated that implementation of the terms and specifications contained in this document will be periodically audited as part of the EMS audit.

All documentation held by the Environmental Officer shall be available for the EMS audit at all times. Contractors shall also be required to provide any information required by the EMS auditors.

AIRSIDE PROJECT/WORK SAFETY PLAN

(OHS and Environmental Safety Plans to be submitted separately)

Contractor:

Project/work:

ACSA Dept.

- 1 Disruption to normal operations (Minimise)**
 - a. Hours of work
 - b. Information to Stakeholders in writing
 - c. NOTAM

- 2 Access**
 - a. Access point and route
 - b. Marking of Route
 - c. Movement area crossing points
 - d. Vehicle / Equipment control
 - e. Communication facilities
 - f. Escorts

- 3 Height restrictions**
 - a. Vehicles / Cranes
 - b. Operating heights of crane jibs

- 4 Aircraft movement area inspections : F&RS/Airside Safety**
 - a. Frequency
 - Areas open to a/c use
 - Areas closed to a/c use
 - b. Cleaning / sweeping

- 5 Site inspection**
 - a. Adherence to safety requirements

- 6 Marking of obstacles**
 - a. Hoarding / demarcation of site
 - b. Markings
 - c. Lighting

- 7 Safety training**
 - a. Airside Inductions
 - b. AVOP
 - c. OHS
 - d. Environment

- 8 Security Permits**
 - a. Personnel
 - b. Vehicles / equipment inspections

- 9 PPE**
 - a. Reflective jackets / vests
 - b. Ear protections

- 10 **Hot work permit – Fire & Rescue**
- 11 **Contractor staff briefings** (proof may be requested)
 - a. Precise area in which work may be done
 - b. Routes to be followed to and from working area
 - c. R/T procedures to be used
 - d. Escorting procedures and briefs
 - e. Safety precautions to be observed, eg:
 - Maintenance of listening watch
 - Use of look-outs
 - f. Reporting procedure to be followed on completion of work
- 12 **Written warning to contractor of possible hazards to personnel**
(Attach copy)
eg: - Jet blast; Noise
- 13 **List of mechanical equipment**
(Brief descriptions of equipment may be requested to enhance understanding.)
- 14 **Schedule of Contractors**
- 15 **General comments**

Compiled by:

Signature:

Date:

APPENDIX A

SITE INSPECTION PROTOCOL FOR CONSTRUCTION ACTIVITIES

The ACSA: Environmental Officer should audit one or more method statement per site (if applicable), as well as the general requirements of the Construction ES (see checklist overleaf) during a site inspection.

| |
|-----------------------------|
| Project reference:..... |
| Contractor:..... |
| Responsible Person:..... |
| Date:..... |

Method statement(s) audited:

Tick one box:

method statement properly implemented

method statement not properly implemented

If method statement not properly implemented, describe deviations/omissions/problems:

- 1.
- 2.
- 3.

Describe actions/plans to ensure proper implementation of the method statement:

- 1.
- 2.
- 3.

Other observations about implementation (if any):

- 1.

Signed..... (ACSA ECO)

Signed..... (Responsible Person)

Date:

Date:

SITE INSPECTION PROTOCOL FOR CONSTRUCTION ACTIVITIES

| ISSUE | REQUIREMENT FOR COMPLIANCE | | COMMENTS/ACTIONS |
|------------------------------|---|--|------------------|
| Site | Site boundary is clearly demarcated and activities undertaken within boundary. | | |
| Toilets | Adequate toilets have been provided. These are secure and well maintained. | | |
| Wastewater | Waste water is discharged to the reticulated system or to a conservancy tank which is emptied as required. | | |
| Refuse | Site is generally tidy and free from litter. | | |
| | No burning or burying waste. | | |
| Natural features | No defacement of natural features to be protected in the site or the immediate surrounding area. | | |
| Runoff | No polluted runoff from the site. | | |
| | No pollution or erosion resulting from runoff of construction water. | | |
| Fuels & chemicals | Servicing & fuelling occurs in designated place. No significant ground contamination. | | |
| | Drip trays in place for pumps and other machinery in fixed location for at least 2 days. | | |
| | Fuel stores on sealed base and adequately bunded. | | |
| | Hazardous materials stored in an enclosed area or as agreed in method statement and appropriately labelled. | | |
| | Spill clean up materials available on site. | | |
| | No significant spillage. | | |
| Dust | No excessive dust which could cause a nuisance to employees or the public. | | |
| Fire | No fires on site. Use of closed stoves or fires limited to construction camps. | | |
| | Fire extinguishers available near any welding or metal cutting. | | |
| Topsoil | Topsoil removed and stockpiled < 2m high. | | |
| Stabilisation | Slopes stabilised as necessary to prevent erosion. | | |
| Monitoring | Responsible Person's record of major incidents is up to date. | | |
| Training | All Contractors' personnel are aware of environmental responsibilities. | | |
| | Records of training maintained by Responsible Person. | | |

C3.7.3: CONTRACT PARTICIPATION GOALS

C3.7.3.2 DEFINITIONS

- 1) **BBBEE**
Broad-Based Black Economic Empowerment
- 2) **BO**
Black Owned
- 3) **BWOYO**
Black Woman Owned, Youth Owned
- 4) **CIDB**
Construction Industry Development Board
- 5) **CPG**
Contract Participation Goals
- 6) **EME**
Exempted Micro Enterprise
- 7) **ISO**
Quality management systems standards
- 8) **JV**
Joint Venture
- 9) **NCDP**
National Contractors Development Programme
- 10) **PPFA**
Preferential Procurement Policy Framework Act
- 11) **PWPDO**
Persons with Physical Disability Owned
- 12) **SADC**
Southern African Development Community
- 13) **PPM**
Project Portfolio Management

C3.7.3.3 CONTRACT PARTICIPATION

1. Contract Participation Goals (CPG)

CPG refers to the extent to which the contracted resources achieve predetermined transformation objectives, expressed as a percentage (%) of the contract value. Bidders are expected to achieve this target by the end of the project. CPG for this contract is 30%.

- 2. Bidders are to submit to submit a transformation proposal meeting the CPG target for this contract.
- 3. 30% of the contract amount will be allocated to enterprises that are women owned, youth owned, PWPDO, or allocate to EME, QSE that are 51% black owned entities.
- 4. To facilitate achievement of target set out in 3, and transfer of skills, the tenderer **must** subcontract a minimum of 5% of the contract value to CIDB Grade 1 to 6 CE contractors that are women owned, youth owned, PWPDO, or allocate to EME, QSE that are 51% black owned entities.

This is in line with the Standard for Indirect Targeting for Enterprise Development through Construction works Contracts, published in Gazette Notice No. 36190 of 25 February 2013.

- 5. In the event that the Contractor/consultant fails to substantiate that any failure to achieve the contract participation goal relating to the granting of a preference was due to quantitative underruns, the elimination of items, or any other reason beyond the Contractor’s control which may be acceptable to the Employer, the Contractor/Consultant shall be liable to pay to the Employer a financial penalty calculated in the following manner:

$$P = (0,15 \times (D - Do) \times CA) / 100$$

- vi. Where D is the tendered contract participation goal percentage;
- vii. Do is the contract participation goal which the Employer’s representative, certifies based on the credits passed, as being achieved upon completion of the contract;
- viii. CA is the contract amount.
- ix. P is the monetary value of penalty payable

No financial award is due for over performance on CPG.

6. Acceptance

I/We _____ acknowledge that I/we have read and understood the contents of this section and we affirm our commitment to achieve the Contract Participation Targets per form A12 of this document.

Signed:..... Date:

Name: Position:

Tenderer:

.....

C3.7.4: REQUIREMENTS OF THE CIDB BUILD PROGRAMME

The contractor shall achieve in the performance of the contract the Contract Skills Development Goals (CSDG) as stated in the Standard for Developing Skills through Infrastructure Contracts (Published in GN 43495 of 20 March 2020)

CSDG shall be achieved in the performance of a contract in relation to the provision of different types of workplace opportunities linked to work associated with a contract which culminate in or lead to:

- a) **Method 1:** a part- or full occupational qualification registered on the National Qualification Framework;
- b) **Method 2:** a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012);
- c) **Method 3:** a national diploma registered on the National Qualification Framework; and
- d) **Method 4:** registration in a professional category by one of the professional bodies listed in the standard.

This section shall be read concurrently with the Standard for Developing Skills through Infrastructure Contracts (Published in GN 43495 of 20 March 2020). The contractor shall comply with the provisions of the Standard for Developing Skills through Infrastructure Contracts for the contract duration.

The Construction Skills Development Goal shall be a minimum of 0.25% of the contract value for this contract. The contractor shall make use of the table below in preparing a proposal on how the CSDG will be met in this contract.

PC 1.2.12 in the bill of quantities has been allowed in the bill of quantities for CSDG over a period of 12 Months. This item is a time related item and shall be paid out monthly for over the contract duration.

The table below shall be used by the Contractor to propose the method in which the CSDG will be met. In the event of the Contractor failing to meet the relevant requirements and goals, the Contractor will be penalised as detailed in Item 5 of C3.7.3.3 above.

| Skills Types | Number of Learners | *Notional Cost/ Learner/ Quarter (Rand) | Notional Cost /learner/ year (Rand) | Total Notional Cost over 12 Months Contract (Rand) |
|--|--------------------|---|-------------------------------------|--|
| Method 1: a part- or full occupational qualification registered on the National Qualification Framework; | | | | |
| Method 2: a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012); | | | | |
| Method 3: a national diploma registered on the National Qualification Framework; | | | | |
| Method 4: registration in a professional category by one of the professional bodies listed in the standard. | | | | |
| Total Cost (Cost of CSDG) | | | | |
| CSDG Score % (Total cost of CSDG/Contract value Excluding VAT) | | | | |
| | | | | |



AIRPORTS COMPANY SOUTH AFRICA

BRAM FISCHER INTERNATIONAL AIRPORT

TENDER NO: BFIA8202/2026/RFP

CONTRACTOR APPOINTMENT FOR THE CONSTRUCTION OF UNDERGROUND MAIN WATER LINE AND REHABILITATION OF SERVICE ROADS AT BRAM FISCHER INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

C4: SITE INFORMATION

C4.1 SCOPE AND DISCLAIMERS

C4.2 SITE DESCRIPTION

C4.3 CLIMATE DATA

C4.4 CONSTRUCTION CONSTRAINTS AND ENVIRONMENTAL CONDITIONS

C4.5 RESTRICTED ACCESS TO THE SITE OF THE WORKS

C4.6 TRAFFIC

C4.7 EXISTING PAVEMENT PROFILE AND MATERIAL CLASSIFICATION

C4: SITE INFORMATION

C4.1. SCOPE AND DISCLAIMERS

The information contained in Part C4 is intended as an indication of the conditions likely to be encountered. All drawings, opinions, interpretations and suggested working methods given in this volume must be regarded as a guide. The results are given in good faith but no warranty is given that the information is representative of the entire airport or route, and no responsibility will be accepted for any consequence arising from actual conditions being different from those indicated in this volume.

This tender applies to the (a) Skills Development Standard. Although in the case of this standard there are no returnable documents, tenderers are sensitised that the proforma documents as listed below, shall be completed by the successful contractor after award of the contract within the stipulated period. (The proforma documents are provided in the tender data for information purposes only).

PRO-FORMA DOCUMENTS

Form A 1 List of Recognised Skills Development Agencies

Form A 2 Baseline Training Plan

Form A 3 Project Interim Report

Form A 4 Supervisor Agreement

Form A 5 Project Completion Report (CSDG)

CIDB SKILLS STANDARD BASELINE TRAINING PLAN

| Contractor Details | | | | | | |
|---------------------------|------------------------------|--|---------------------------------|--|------------------------------|--|
| Contractor Name: | | | | | | |
| CRS Number: | | | | | | |
| Estimated start date | | | | | | |
| Estimated Completion date | | | | | | |
| Size of Organisation | Small (1-49 employees) | | Medium (50-149 employees) | | Large (≥150 employees) | |
| | | | | | | |

| Contractor Contact Details | |
|-------------------------------|------------------|
| Name of Contact Person | |
| Designation of Contact Person | |
| Contact Details | Cell Number: |
| | Landline Number: |
| | Email address: |

| Construction Skills Development Goal (CSDG) Baseline Training Plan | | | | | |
|--|-----------------------------|-------------------------------|--------------------------------|-----------------------|---------------------|
| Training Method | Number of Employed Learners | Number of Unemployed Learners | Area/s of Specialisation/Trade | Duration of Placement | Total Notional Cost |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total | | | | | |

Note: Refer to Table 3 in the Standard for Developing Skills through Infrastructure Contracts Government Gazette 43495 of 3 July 2020 for the notional costs

Contractor's Representative Name: _____

Designation: _____

Signature: _____

Date: _____

Employer's Representative Name: _____

Designation: _____

Signature: _____

Date: _____

| Form A5: cidb PROJECT ASSESSMENT SCHEME: STANDARD FOR DEVELOPING SKILLS PROJECT COMPLETION REPORT | | | |
|--|---------------------------|--------------------------|-----------------------------|
| Section A: Contractor / JV Information | | | |
| cidb Contractor Registration Number of main / lead contractor | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Name of contractor /Joint Venture | <input type="text"/> | | |
| Contact Person Title | <input type="text"/> | Initials | <input type="text"/> |
| Surname | <input type="text"/> | | |
| Designation | <input type="text"/> | | |
| e-mail | <input type="text"/> | | |
| Mobile | 0 <input type="text"/> | - <input type="text"/> | - <input type="text"/> |
| Office Telephone | 0 <input type="text"/> | - <input type="text"/> | - <input type="text"/> |
| Section B: Employer Information | | | |
| cidb Employer Number | <input type="text"/> | | |
| Employer Name | <input type="text"/> | | |
| <input type="text"/> | | | |
| Section C: Contract Data | | | |
| cidb Contract Number | <input type="text"/> | | |
| Contract Title | <input type="text"/> | | |
| <input type="text"/> | | | |
| Date of Completion | <input type="text"/> | - | <input type="text"/> |
| Tender Value R | <input type="text"/> | <input type="text"/> | <input type="text"/> . 0 0 |
| Section D: Approved Exemptions and Variations Granted | | | |
| <input type="text"/> | | | |
| Section E: Budgeted Training Costs | | | |
| GB | 0,50% x Tender Value = R | <input type="text"/> | <input type="text"/> . 0 0 |
| CE | 0,25% x Tender Value = R | <input type="text"/> | <input type="text"/> . 0 0 |
| CE & GB | 0,375% x Tender Value = R | <input type="text"/> | <input type="text"/> . 0 0 |
| EB | 0,25% x Tender Value = R | <input type="text"/> | <input type="text"/> . 0 0 |
| EP | 0,25% x Tender Value = R | <input type="text"/> | <input type="text"/> . 0 0 |
| ME | 0,25% x Tender Value = R | <input type="text"/> | <input type="text"/> . 0 0 |
| SW | 0,25% x Tender Value = R | <input type="text"/> | <input type="text"/> . 0 0 |
| Section F: Actual Training Costs Achieved | | | |
| Actual training costs achieved | R | <input type="text"/> | <input type="text"/> . 0 0 |
| CSDG achieved | Yes | <input type="checkbox"/> | No <input type="checkbox"/> |

C4.2. SITE DESCRIPTION

C4.2.1 General

The general locality of the main facilities is indicated in the diagram below:



Figure 1: Map of BFIA

C4.3 CLIMATE DATA

The Average Annual Precipitation for Bloemfontein is approximately 543 mm per annum. The highest rainfall occurs in the month of January (90mm) with little rainfall anticipated from the month of June to July (8mm)..

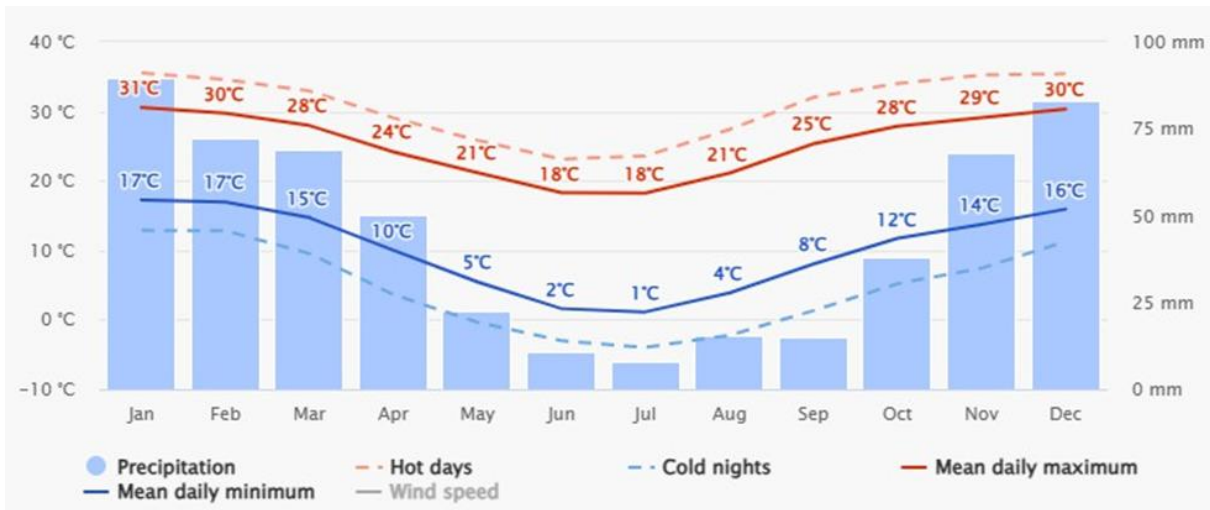


Figure 2 : Climate of Bloemfontein

C4.4 RESTRICTED ACCESS TO THE SITE OF THE WORKS

C4.4.1 Restricted Areas

The contractor will have restricted access to the works at any given time because simultaneous closure of the taxiways (if applicable) during normal operational hours will not be permitted.

Although the entire site will be handed to the Contractor at the start of the contract, the airport manager and the air traffic controller have the right to decide at short notice where on the site the Contractor may work. Works on all Roadways and Taxiways (if applicable) will remain operational and has access. Therefore, it is compulsory for the Contractor to complete the portion of surfacing milled for the night shift the same night and to allow normal air-traffic for the next day.

C4.4.2 Access Point and Routes

The designated access point for plant and personnel will be provided to the contractor. The Contractor will be required to provide 24 hour security at these Gates. The security stall at this Gate will be in radio contract with Fire & Rescue at all times to enable the provision of escort services.

Construction material must be delivered via the temporary access gate to the site camp under escort service. The Contractor shall erect, maintain, move and finally remove temporary barriers, fences, signs and markings, all as prescribed by the airport authorities. The Contractor shall ensure that all barricades, markers and signs are placed under escort, prior to entering a work area for construction purposes.

Movement outside the areas demarcated for construction shall not be permitted, unless special arrangements have been made and approved by the AM.

C4.5 TRAFFIC

A straight-line simplification of the rebound is done here simply to provide the traffic figures for pavement design calculation some form of normalcy with a steady growth rate.

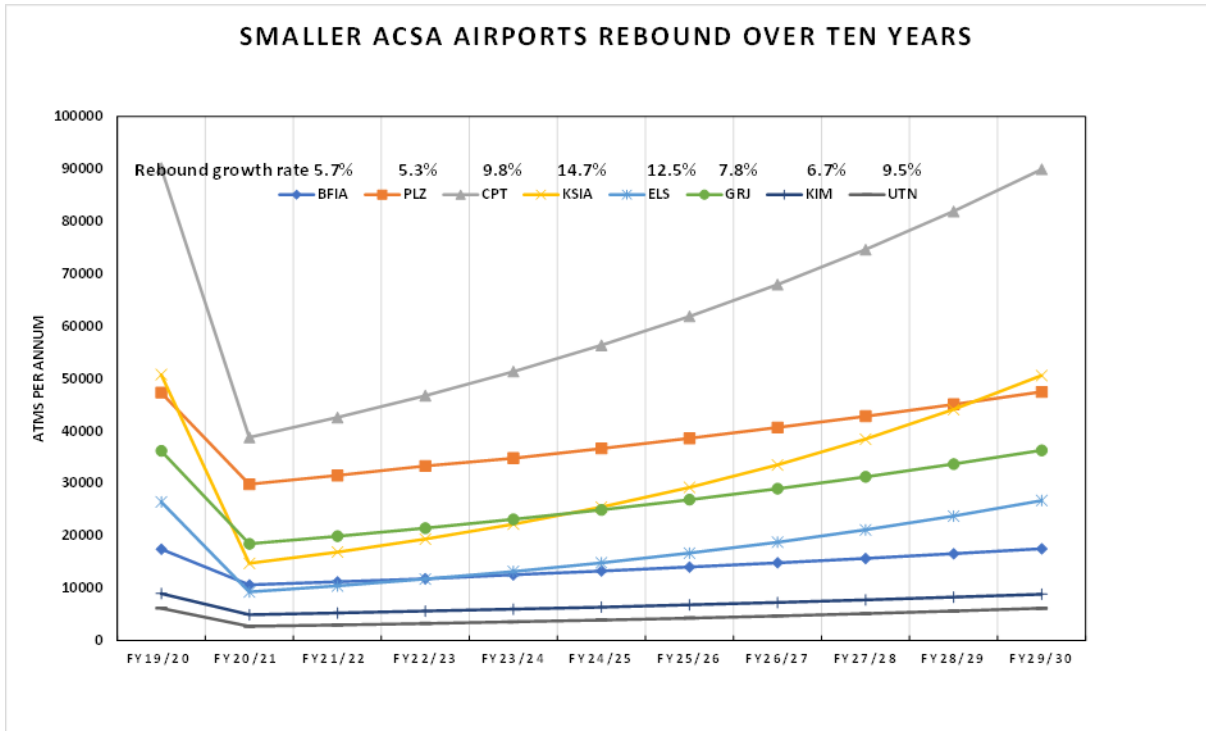


Figure 4: Rebound modelling of ATMs of smaller 8 ACSA airports

The traffic distribution per runway, per taxiway, per taxi-lane and on the aprons is still to be determined. The distribution or weight per airside element, are assigned via logical travel paths following such annual arrivals and departures and are assigned per aircraft type.

C4.6 EXISTING PAVEMENT PROFILE AND MATERIAL CLASSIFICATION

The results below represent the properties of clay to clayey sand gravel overlain by gravel materials sampled on site. The results show that the material encountered on site has broken down to well graded clayey-sand to silty sand mixtures to poorly graded gravel with medium to high percentage of fine materials. The high percentage of fines sampled on site accounts for the low potential expansion. The results indicate that the existing base materials are unsuitable for use as base material and hence the existing top 300mm layers should be cut to spoil and new layers imported.

The observed existence of wetness/moistness in the pavement layers is an indication of a poor subdrainage systems which is not effective in ensuring protection of layer works against water ingress.

Table 2: Test Pit No. 3 Profile

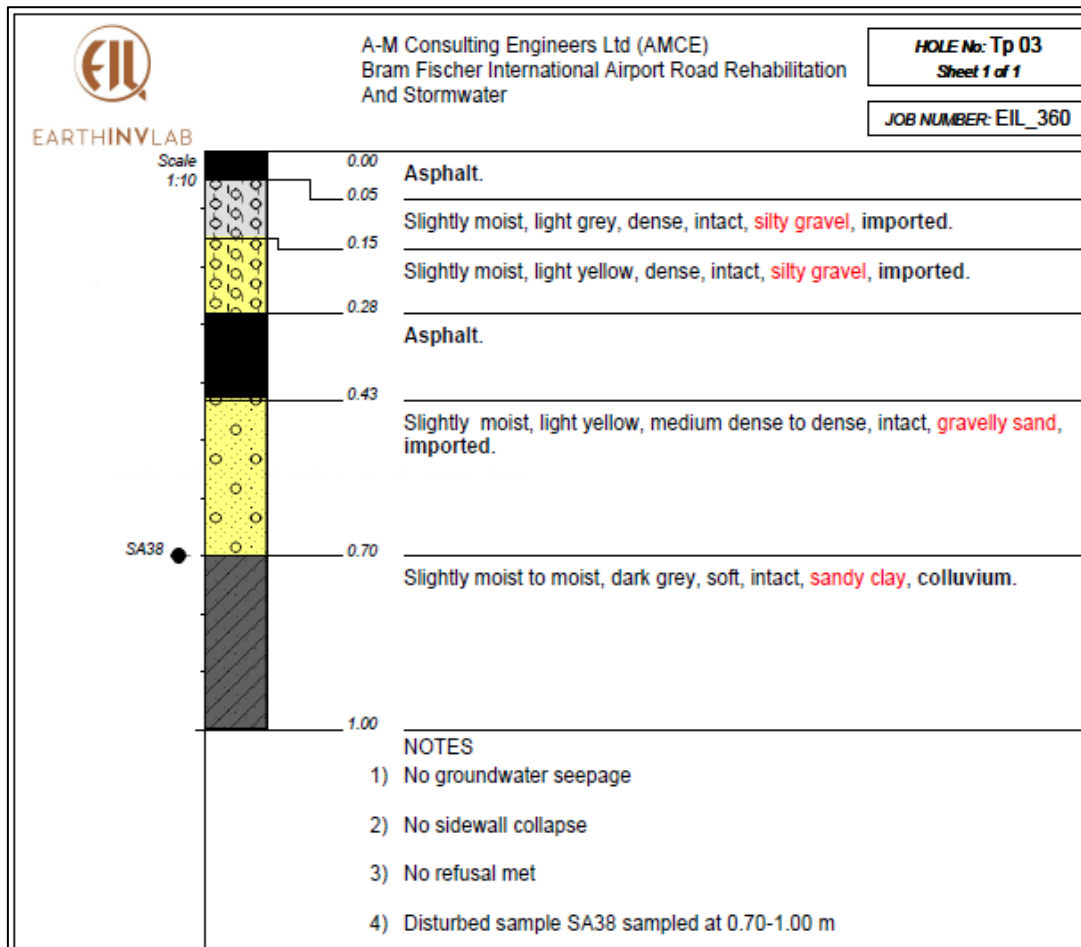


Table 3: Test Pit No.5 Profile

